

# Netbook



USER GUIDE

**Netbook computer**

\* Before using the Netbook PC, please read the following information and put the document at hand for reference.

## Announcement

Dear Users:

Thank you for purchasing and using our products. For the sake of your safety and interests, please carefully read the product specification as well as the files attached to the Netbook PC. We shall not assume any responsibility for anybodily injury; property or other damages if you do not operate or use the Netbook PC refer to the User's Manual.

The product specification (herein after referred to as Specification)

- The specification copyright reserved.
- The ownership of the trademark or trade name mentioned within the specification belongs to their respective owner
- The actual product prevails when the content is not conformed to the specification

If you have any misunderstanding or objection about the Content or Article & Clause in the specification please put forward a written file within 7 days after buying it, otherwise, it shall be deemed that you have agreed to, understood and accepted all the contents of the specification.

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# 1. Notes

## 1.1 Special Notes

For your understanding and attention, a few notes and warning are used throughout in this specification that you should be aware of in order to guide you complete certain tasks safely.

These special notes have different degrees of importance as follows:

【DANGER】 --Caution against High danger

【WARNING】 --Caution against Medium danger

【NOTE】 --Attention to low danger

【PROHIBITION】 --Dangerous operation should be prohibited

【TIPS】 --Other safety guide

It is not the full information in this chapter and we list parts of safety information in next pages. For the sake of your safety and interests, please read carefully wherever it is written. Similarly, it is vital that you should pay the attention to other content and instruction except the special notes.

## 1.2 Important Information Read Before Using

Notebook PC is high-Tec precision product, the following note is important.

1. The maintenance of the LCD display:

DO NOT put any heavy objects on the Notebook PC.

DO NOT put additional pressure on Notebook PC bag or LCD rear when carrying case or backpack, and assume not too much things in the Notebook PC bag.

DO NOT scratch, twist or strike the surface of LCD.

DO NOT place LCD in surrounding with a temperature above 40°F or humidity above 90%.

DO NOT expose LCD in the sun or strong fluorescence.

DO NOT place any objects between LCD and KEYBOARD, such as pencil, file, which result in damage of scratch LCD display. Do not wipe LCD by corrosive cleanser which will damage display.

2. Do not block the vent when Powering ON to avoid Notebook PC overheated.

3. To prevent system failures or data loss, do not disconnect the devices when visiting floppy disk, optical disk, mobile storage devices.

4. Do not disassemble the shell when system is running that will result in data loss or destruction. Backup all the data before formatting hard disk. We will not assume any responsibility from omission of backup in other storage devices promptly.

5. To assure the safety of the user and Notebook PC, be sure that the power has been correctly grounded when using the external power supply. If you won't use the Notebook PC for a long time, please disconnect the power socket to avoid transient overvoltage causing system destruction. The power supply should be stable and be free from interference. When you are not clear about the local specifications on electric appliance, please consult your Notebook PC distributors or your local electric power company. For the sake of safety, please do not damage the grounding line of power socket. When disconnecting the power, you should avoid pulling off the electric wire directly by pulling. Please make sure to pull from

the root of socket so as to guarantee safety. Before cleaning the Notebook PC, please remember to firstly plugging off the power socket and then remove the battery. Please do not disconnect the power adaptor.

6. Do not use the power adaptor not attached to the Notebook PC because this will damage the Notebook PC.

7. Please don't take or place the laptop computer with one hand or put your laptop computer in an unbalance state.

8. This Notebook PC can only be disassembled by authorized service staff of agent. Please make sure to keep the sealing strip intact. Otherwise, the warranty or three guarantees service (after sale service) may be influenced.

9. If you have set up a password, please keep it in mind. Otherwise, your Notebook PC cannot be started. If you have forgotten the password, please contact the supplier or authorized maintenance station, which may destroy all of your data.

## 1.3 Notice

### Applicable group

#### 【NOTE】

You should master a certain basic knowledge on Notebook PC in order to operate the Notebook PC. Meanwhile, the Notebook PC is not suitable for independent operation by children. If necessary, children must be accompanied by adults.

### Working environment

#### 【DANGER】

In order to prevent accidental failure, the Notebook PC should run within the following defined environmental scope:

Content	Scope of application	Remark
Temperature of storage & transportation	-40°C to -50°C	
Relative humidity of storage and transportation	20% -93%(40°C)	
Atmospheric pressure	86 kPa -106 kPa	
Adaptation capability of power	220V ±22V, 50Hz ±1Hz	
Working environmental humidity	35% -80%	
Working environmental temperature	10°C -35°C	

#### 【WARNING】

In order to prevent the Notebook PC from being harmed by the environment (dampness, dust, food, liquid, direct exposure to sunlight etc), the Notebook PC should be placed in a dry place with good ventilation.

In order to prevent the Notebook PC from being disturbed and damaged by the magnetic field, please keep it away from other household electric appliances (such as Television, air conditioner etc).

Please do not splash liquid or other impurities into the Notebook PC. Otherwise,

it may lead to short-circuiting of its internal components, which will further give rise to electric shock or fire accidents.

**【NOTE】**

If the Notebook PC is switched on and started when the low temperature condition hasn't been resumed, it may lead faults that beyond repair on the Notebook PC. Therefore, before using the Notebook PC, please firstly make sure that the Notebook PC is resumed for over 2 hours under the room temperature (above 10 Celsius degrees).

**【WARNING】**

After the Notebook PC is stored and transported under the environment of lower than 10°C, the Notebook PC should be placed for over 2 hours under the room temperature condition of 10°C - 35°C before being used in order to prevent the Notebook PC temperature from getting excessively low, which thus gives rise to electrified damages. Please do not disassemble the package during the period. Let the Notebook PC resume its temperature naturally and avoid the temperature increasing excessively quickly, which thus leads to electrified damages.

**【NOTE】**

Before using the Notebook PC, please make sure that the Notebook PC connection, power use and other affairs conform to the requirements in the specifications.

## Removal, transportation and storage

**【NOTE】**

When moving the Notebook PC, special care should be taken.

The Notebook PC should be placed in the original packing box in case of transportation.

You should pile and place the packingbox according to the symbol and indication of packing & transportation diagram.

You should also use closed cases in case of removal.

In case of storage, the packing materials should be placed beyond children's reach in order to prevent the occurrence of unsafe conditions.

According to the relevant interpretation of GB/T9813-2000 General Specifications of Micro-Notebook PC, after the Notebook PC is stored and transported in the environment of lower than 10°C, before using the Notebook PC, please place the Notebook PC for over 2 hours in the room with temperature condition of 10-35 Celsius degrees in order to avoid electrified damages due to excessively low Notebook PC temperature. Please do not disassemble the package during the period. Let the Notebook PC resume its temperature naturally and avoid the temperature increasing excessively quickly, which thus leads to electrified damages due to Notebook PC frosting and dewing.

## Battery

**【NOTE】**

To replace the lithium battery of Notebook PC incorrectly may higher explosion risks. Please make sure that the replacement and installation of lithium battery be done by professional maintenance staff. Only battery products of same or equivalent types recommended by manufacturers can be used for replacement. The improper disposal of battery will lead to serious environmental pollution. Please dispose the consumed battery in a proper way or return the waste & used battery to the after-sales & maintenance department for treatment so as to avoid environmental pollution.

## 1.4 Please be sure to read the instructions on the laptop battery

Please refer to the following rules and use your battery properly.

### Newly-purchased battery

The new battery can only be charged after the original electricity capacity is fully consumed.

### Battery life:

Improper use or maintenance may shorten the battery life. In order to increase the battery life and enhance the battery functions, the battery should be fully and thoroughly discharged every 30 days and be re-charged until be saturated.

### Battery gauge:

There is a built-in gauge in the battery, which can calculate the electricity of battery. The battery gauge depends on the battery memory to determine the extent whether to stop charging or discharging. However, if you frequently do incomplete charging or discharging, the battery memory will be in confusion.

In order to increase the accuracy of the battery gauge, you should do complete discharging and charging until saturation for at least one time every 30 days or after 20 times incomplete discharging.

Due to the battery's characteristics, the quantity of electricity will gradually decrease and the duration of operation will be shortened. Within the battery warranty period, the battery may not be charged to 100%. However, this doesn't influence the normal operation. Battery time varies by usage and by the specifications for this Notebook PC. This is a common phenomenon.

### To save the battery power:

A. Senior power management:

The Notebook PC has a function of senior power management, which can slow down the speed of processor and peripheral components. The use of these functions will help to save the battery power.

B. The brightness of LCD:

The LCD may consume a lot of power. Therefore, if the brightness is adjusted down, it will save some power.

C. Software and peripheral:

As for different software and peripherals, even if they are not the program or equipment in use, they still consume power. In order to save the battery power, we recommend as follows: If the Modem or other communication programs are not used, these programs shall be closed. Take out the unused PC card from the Notebook PC slot. Because even in case of suspend mode, PC card will also quickly consume the battery power. To pull off the unnecessary peripherals from the Notebook PC socket.

### Q&A :

#### How to fully discharge the battery?

Let the Notebook PC run with the battery power until the Notebook PC automatically shuts off due to excessively low power. Even when you see the information on excessively low power on the Notebook PC screen or when you hear the warning beep sound of excessively low power, you cannot manually power off the Notebook PC.

Let it alone until the battery power consumes out then the Notebook PC is automatically power off.

### How to fully discharge the battery?

When the battery is being charged, you should generally wait until that the battery indication lamp on the Notebook PC indicates the charging has been completed, i.e. reaching the saturation. For details, please refer to the indication lamp of power state in this manual.

### How to maintain the battery?

You should do one complete discharging and charging at least every 30 days or after every 20 times of incomplete discharging.

### Special attention:

Only use battery supplied with this Notebook PC.

The improper replacement of battery type may result in explosion risks. Only the original battery of same type or the battery model of same levels recommended by the original manufacturer can be used for replacement.

Please do not disassemble the battery. Do not throw the battery to fire or water. In order to prevent the fire accident, combustion or damages on the battery, the two poles of the battery cannot be impacted by metallic articles.

Special care should be taken when handling damaged battery or battery with liquid leakage. If you touch the battery liquid incaution, please rush to flush with soap and water. If it touches your eyes, please wash your eyes with water for 15 minutes and rush to hospital for medical treatment.

If the environmental temperature is high, please do not charge the battery. When storing the battery, please do not expose the battery to a high temperature.

### Power

#### 【DANGER】

You need to use qualified three-bolt outlet with grounded powerplug and socket for grounding protection. The power socket should be finally inserted into power with sound grounding. A sound grounding is an important guarantee for the normal running of your Notebook PC. If you replace standard power lines without authorization, it may lead to serious results. Meanwhile, the maximum length of power lines shouldn't exceed 4.5 meters.

Before using the power, you should confirm that the power conforms to the requirements of Notebook PC use according to the specifications of power plug and socket. Qualified power and excellent grounding are important guarantee for the normal running of the Notebook PC. Otherwise, it may lead to serious results.

#### 【DANGER】

During the thunderstorm period, the use of products may harm the safety of your body and other assets. Therefore, during the weather of thunderstorm, please avoid using the Notebook PC, disconnect the telephone line, network line, power line and other conducts which are connected with outside. In case of thunder, please do not insert and pull these lines & cables.

#### 【WARNING】

Try not to insert the power line of 110V into the power line of 220V. You should

also try not to change the voltage selector switch of the Notebook PC power. Any change may lead to personal body harm or damage of equipment

#### 【NOTE】

Carefully check the AC power line supplied with Notebook PC. In case of any problems, please contact relevant dealer. The power line used for Notebook PC must conform to the following safety regulations:

- Conformity to CCC certification
- The power socket should be finally inserted into the power line with excellent grounding
- The power socket must conform to GB 1002 - 1996 and GB2099.1 - 1996

### Ergonomics

#### 【TIPS】

Please adjust your Notebook PC when typing or playing games with Notebook PC so as to make yourself in a comfortable and flexible state. The following suggestions can help you enjoy more comfortable environment.

##### 1. Supporting your back:

Select a chair which can support your back.

Adjust the height of working surface and chair so that they are in a comfortable and natural state.

##### 2. Making a comfortable posture for legs:

Remove the articles under the table and make the position and movement of your legs become more comfortable.

If your legs cannot comfortably rest on the floor, just use one footstool.

##### 3. Reducing the bending and twisting of your neck:

Place LCD in the central position before you. If you refer to documents more frequently than display, please consider putting documents directly before you and the display should be slightly on the left side.

Please consider using document frame and place the document in a level near to your eyes.

Place the top part of screen in a level near to your eyes. As for those with astigmatism, it may be necessary to put the screen lower, or wear glasses suitable to Notebook PC work through consultation with qualified health experts.

##### 4. Decreasing the fatigue of eyes:

Put the screen in your arm's reached and comfortably sit before the screen.

Avoid glare. The position of display should be far away from the light source generating glare. Or you should use window curtain to control the light strength.

Please remember to clean the screen. If you wear glasses, please clean the glasses, too.

Please adjust the brightness and contrast of screen as well as the font size to a state which will make you comfortable.

When operating keyboard and touch pad, please lightly touch the keys and keep your handstand fingers relaxed. Just slightly strike the keyboard.

When single-click the touch pad or use game pole or other game controllers, you should slightly strike the keyboard.

When typing words, avoid putting your palm or wrist on the object surface with

wide-angle for relaxation. If necessary, relax your palm during the pause of typing.

When typing words is suspended, just relax your arms and hands. Do not relax on the edge of objects, such as table edge.

Adjust your chair and not allow your seat to extrude the back of your knees.

## 1.5 Safety Instruction

1. The power socket hole should be installed near the equipment or places easy for operation. When inserting and pulling the power line, avoid directly pulling out the power line by pulling and dragging. Please be sure to pull from the root of plug so as to guarantee the safety and caution against electric shock. Please do not disassemble the power adaptor.

2. Do not place the product in places with easy access to water.

3. In case of installation, please place the product on a stable supporting foundation. This product may fall off due to un-stable placement, which leads to serious damages.

4. Do not place the products in places where there are frequent flows of people so as to avoid trampling the electric wire. Please make sure that no articles are placed on the electric wire.

5. Follow all the warning information and indication on the products.

6. If you do not plan to use the product for a long period, please pull off the power socket so as to avoid excessive transient overvoltage, which can cause damages.

7. Please do not splash any liquid on the product. This action may lead to risks of fire accidents or electric shock.

8. In case of the following conditions, it should be serviced by professional:

a. the power line or socket has been destroyed or torn off.

b. The liquid is splashed to the product.

c. The product is drenched by raining or splashed by water.

d. When you follow the instructions on operation, the product is still unable to run normally.

e. If the product once fell off or its shell has been destroyed.

f. If the product has apparent damages.

9. For the usage and storage temperature of this product, please refer to the product specification in Annex A. If the product is not used and stored within the defined temperature scope, it may lead to permanent damages on the product.

10. Please do not use the power adaptor where it's near to water or other liquids. Please do not splash liquid to the power adaptor.

**Note:** All the photos & diagrams in this manual are schematic diagrams and can only be used for reference. The actual use should be based on the object.

## 2. Product overview

### 2.1 Introduction

Product name: Notebook PC

Series and Model: SN series

Product Feature:

Adopt Intel N270+945GME technology, the feature is more excellent.

#### The system expansibility

The system allows the upgrading and substitute of EME memory and HD capacity. When replacing substitute products for capacity expansion, please consult your local distributor or go to designated maintenance department for operation.

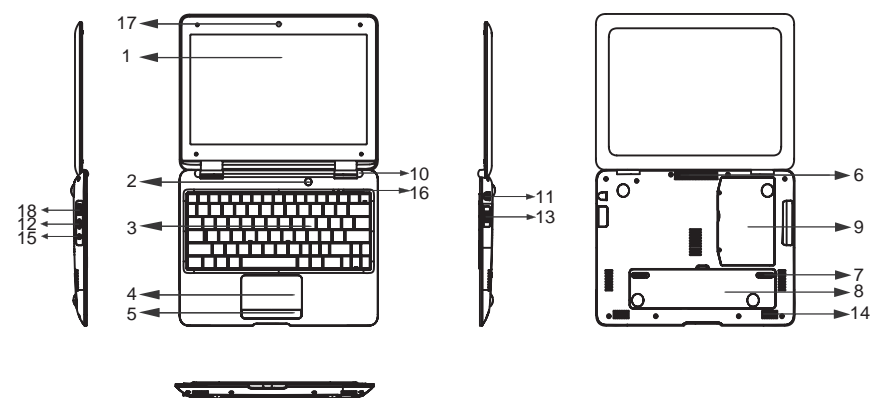
#### Clear LCD

The Notebook PC has a backlight LED, which brings you clear and bright colorful words and images.

#### The feature of communication

This Notebook PC is equipped with a built-in wireless web solution for LAN.

### 2.2 Components Introduction



(Specific machines in order to prevail in kind)

**1.Display Screen**

The data and image in the Notebook PC shall be displayed on the screen.

**2.Power button**

It's used for starting/shutting off the Notebook PC.

**3.Keyboard**

Keyboard can be used for data entry.

**4.Touch pad:**

The touch pad is a built-in pointer device. Its function is similar to that of mouse.

**5.Left and right key of mouse****6.Fan grid**

The fan grid is used for hot air disperse. Please do not fully block the vent of air flow.

**7.Battery locking bolt:**

The battery locking bolt can be used for locking or releasing battery pack.

**8.Battery pack**

It can power the Notebook PC if the external power is not connected.

**9.Cover of HD**

The HD is located under the cover.

**10.Rotating shaft****11.DC-IN socket**

Connecting the power adaptor

**12.HDMI Port**

High definition video,multi-channel voice frequency data transfer Port

**13.USB port**

Used for connecting USB device.

**14.Screw hole****15.Audio&Mic Port**

Output&input port of Audio&Mic voice frequency

**16.LED indicator lamp**

Whether the light is on or not indicates different status (for details, please refer to the following section)

**17.PC camera**

Notebook PC video input equipment

**18.RG45 Network Interface(optional function)****2.3 Unpacking and checking**



Please carefully remove the package and take out the Notebook PC and other accessories. If any loss and missing are found, please immediately contact distributors. Please store the original packing materials for replacing goods.

Generally, you will have the following parts

**1.Notebook PC****2.Power adaptor and power line****3.User's manual****4.Disk on driver program****5.Battery****6.Warranty card****7.Quality certificate**

### 3. Basic common knowledge on computer operation

#### 3.1 Indicator lamp for system status

Led icon & symbol	Indicating Contents
 Boot Indicator ( A )	The blue lamp indicates that the system is in running status The flashing blue light indicates that the system is hibernation on.
Battery Indicator ( B )	At the same time using the battery and external power supply At the same time using the battery and external power supply: Orange flashing : The battery is charging, power consumption less than 20% range. Orange: The battery has been charged to the 20-80% range and is still charging. Green : The battery has been charged to 80% or more, the battery continues to charge until full. Startup and shutdown state, the state charging indicator light line. Use only the battery : On / off state, this indicator should not be bright. Only use an external power supply: On / off state, this indicator should not be bright.
HDD LED ( C )	Green flashing: that is in standby state Green: moving from the hard disk / CD-ROM to read data or write data to the hard disk
Wireless LAN indicator light ( D )	Green flashing: is transmission of data Green: Wireless LAN feature turned on, and the wireless connection is available
Capitalization Indicator ( E )	Green: Caps Lock is enabled in the English key
The numeric keypad light ( E )	Green: Indicates the numeric keypad is enabled
	

#### 3.2 Stop the computer



When you finish your work, you can shut off the power or let the computer enter the mode of the standby or hibernation:

Mode of stopping	Method	Method on re-starting or usage
Directly shut off the power	Please follow the program for shutting the operation system. By doing so, you can avoid the losses of data or damages of software. If the system is halted due to problems on hardware or software, you can use the power button to shut off the computer.	Using the power button
Standby	According to your setup of Windows, the system will enter the standby status according to following method: Close the computer cover Fn + ESC key combination Turn off your computer using the menu in the Standby option Turn off your computer using the menu in the Standby option	Any key to wake-up
Hibernation	According to your setup of Windows, the system will enter the standby status according to following method: Close the computer cover Fn + ESC key combination Turn off your computer using the menu in the Standby option Turn off your computer using the menu in the Standby option	Using the power button to wake-up

#### 3.3 Function of keyboard

Key pressing action	Function
Fn+Esc	Making the system enter in the hibernation mode
Fn+F1	Shutting off the function of touch-board
Fn+F2	Shutting off the function of 3G
Fn+F3	Shutting off the function of wireless net card
Fn+F4	Mute
Fn+F5	Increasing the brightness of LCD
Fn+F6	Decreasing the brightness of LCD
Fn+F7	Switch the screen using the HDMI Port
Fn+F8	Shutting off the function of LCD image



Fn+F9	Self-defined, default the quickly Internet
Fn+F10	Self-defined, default the quickly E-mail
Fn+ 	Increasing the volume
Fn+ 	Decreasing the volume

You can start the numerical keyboard of internal keys by pressing Fn+ Numlk. The numerical is display at the right higher corner of keys. The numerical keyboard contains the keys for the basic calculation, i.e. Plus, minus, times and divide.

Press Fn+Numlk once again, the original keyboard function will be resumed.



### 3.4 Touch pad

The built-in touch pad is a position device compatible with PS/2. You can feel the movement on its surface. Move your finger on the surface of touch pad, the cursor will follow.

### 3.5 Display screen

In order for the comfort of your eyes, your laptop computer is equipped with TFT LCD, which supports high resolution and real color functions. It brings marvelous visual excitement.

To prolong the lifespan of display screen

To obey the following rules can prolong the lifespan of display screen

1. To adjust the brightness of screen onto the minimum brightness, which is comfortable to your eyes.
2. When using it on the table, please connect an external monitor and shut off the display screen of the laptop computer.
3. Don't close the option of entering the pause mode in shutting off the power management.
4. If the AC power is used and there is no external monitor, please don't switch to the pause mode when not using it.

#### [Note]

In order to prolong the battery lifespan, adjust the brightness to the minimum

degree under the precondition of comfortable visual enjoyment. In this way, the internal light source can use less power.

### 3.6 Network card(Optional Function)

The netbook is equipped with a built-in Ethernet network card conforming to 10/100Base-TX standard. insert one end of the LAN line into RG45 interface at the right side of your netbook. Then you can realize the data transfer through the internet.

#### Open or close wireless network

Your netbook is equipped with a built-in wireless network card. Please follow the instruction of the operating system for setup and access of the wireless network. It will take some time for your netbook to connect the wireless network. (Please consult the local service provider of wireless network.)

## 4. BIOS(basic input & output system)Set

In this chapter, we will teach you how to enter the BIOS setup program as well as the setup of control options for all kinds of hardware. You will also learn how to use the setup of the built in safety protection.

The setup of common program is a hardware status program built in the BIOS of the laptop computer. It can execute and maintain many hardware functions. It's a software enabling operation with the menu mode and allowing the easy setup and change of set value.

BIOS Contains the ex-works pre-set values in BIOS. When the hardware is altered, such as upgrading, in case of temporary conditions, or when you decide to selfdeter- mine the set value of hardware so as to meet the special needs, it may be ne- cessary for you to start the BIOS setup program.

BIOS can restrict the access by users by setting up passwords. This is an important function because the laptop computer usually keeps a lot of materials and the unaut- horized access can be prevented.

### 4.1 Method on use of BIOS setup:

The case where you must execute the BIOS setup:

In case of any problem founding in the booting test, some information will appear on the screen, requiring you to execute the BIOS setup.

You need to resume the default value

You need to change the setup value according to the specific hardware

You need to change the setup value in order to acquire the optimum system performance.

If you plan to execute the BIOS setup, press the Delete key when starting the computer.

#### How to select?

For one option, you only complete the setup through two-level or three-level options. The majority of these options must pass three-level options: menu title, drop-down menu and sub-menu.

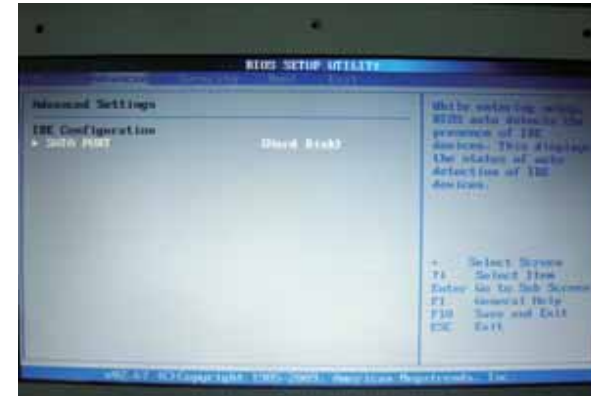
To move and select through keyboard. You can see the operation of the bottom right of the screen tips

### 4.2 Main setting



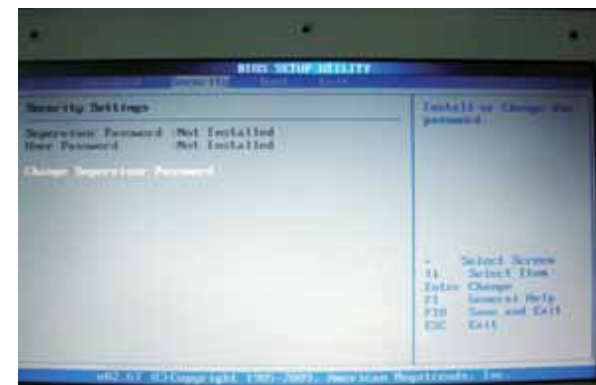
- System Time setup
- System Date setup
- Processor: Basic information about CPU
- System Memory

### 4.3 Advanced Setting



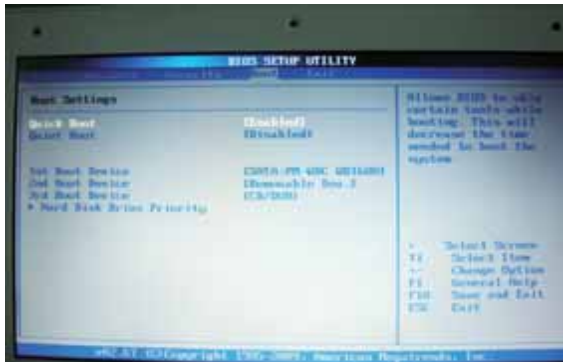
IDE Configuration  
SATA PORT

### 4.4 Security Setting



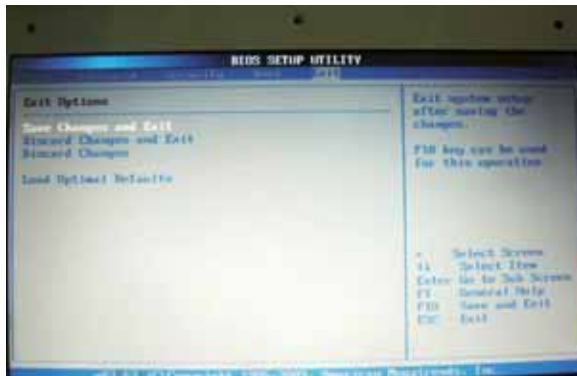
Supervisor Password  
User Password  
Change Supervisor Password

## 4.5 Boot Setting



Quick Boot  
 Quiet Boot  
 1st Boot Device  
 2nd Boot Device  
 3rd Boot Device  
 Hard Disk Drive Priority

## 4.6 Exit Setting



Save Changes and Exit  
 Discard Changes and Exit  
 Discard Changes  
 Load Optimal Defaults

**Note:**When the radio station appears the unusual information prompt or the storage medium cannot guide ,please do choose this item to carry on restores the exwork establishment.

## 5. Installation of driver program

The driver CD only support Windows 2000 、 Windows XP and Windows7

Steps to install CD-ROM drive :

1. Put the driver CD into CD-ROM drive, double-click My Computer, select my CD-ROM.

2.Driver installation:

(1)Sound card driver installation:

X50&X51&X52-Driver\Audio\5961-PG286-UAAV10a-XP\setup.exe

(2)Chipset Driver Installation:

X50&X51&X52-Driver\Chipset\PV 9.0.0.1011 \infnst-autol.exe

(3)NIC Driver Installation:

If you choose the board network card, the installation path: X50 & X51&X52-Driver\Lan\Lan\setup.exe

If you choose the USB network card, the installation path: X50 & X51&X52-Driver\Lan\Lan\setup.exe

(4)Graphics driver install:

X50&X51&X52-Driver\VGA win2k-XP\Setup.exe

(5)Wireless LAN Driver Installation:

X50&X51&X52-Driver\wifi\Install-CD\Setup.exe.

## 6. Fault analysis and elimination

In this chapter, you will learn how to solve general problems on hardware and software.

Your laptop computer must pass a complete test and conform to the system specification before being delivered. However, incorrect operation or negligence during the conveyance process will lead to the occurrence of problems.

This chapter will provide reference and identification information for general problems on hardware and software you may encounter.

In case of any problem, you can firstly try to eliminate it according to the description in this chapter. If the case of error continues to emerge, consult your distributors for service information.

### 6.1 Problems on sound

#### Without sound

Please double-click the icon of loudspeaker at the right lower corner of the task column and check whether the volume of loudspeaker has been shut off.

Fn + F4 function keys for the horn switch

Most of the problems on sound are related to software. If your laptop computer has a normal sound previously, the reason may be that the software setup is incorrect. You can consider to install audio drivers

#### Unable to record

Please double-click the icon of loudspeaker at the right lower corner of task column and check whether the volume of loudspeaker has been shut off.

1. Press the "Option" and select "Property"
2. Select "Recording" and press the "Enter" button
3. After the "Enter" button is pressed, the control console for recording volume will pop out. Please make sure the volume control is too small.

### 6.2 Problems on HD

#### HD is unable to run normally or unable to be recognized

If you just upgraded the HD, please confirm that the interface of HD is not loosened and the installation of HD is fully correct.

You can pull off the joint, formerly re-insert it for one time and then restart the computer.

The new HD needs partitioning and re-formatting. The operating system and driver program also need to be re-installed.

Please examine the indicator lamp of HD. When you access documents, the HD light will flash periodically.

The new HD may be broken

If your laptop computer was once encountered with electrostatics or bumped, you may have destroyed the HD.

#### Too slow execution speed of HD

If your HD has been used for a long time, excessive and unordered documents will result in a lot of disc fragments. Please follow the process, i.e. Start---program---

accessory---system tool program for arrangement of disc fragment, to execute the disc rearrangement. This process may take some time.

Your HD has been infected with virus.

#### Document damaged

Please execute the surface scan in the disc scanning program for disc examination. Double-click "My Computer", right click "C:", select "Property", single-click "Start Checkup" in the fault finding status of the "Tool Table" to execute the disc scanning program.

### 6.3 Problems on Monitor

#### Black screen in case of system booting

Please make sure that the laptop computer is not in hibernation or standby mode. Under these modes, the monitor will be shut off so as to conserve energy sources.

Please press Fn+F5 to increase the brightness of screen

Please press Fn + F8 to determine the laptop screen is not in power down mode.

The screen is not easy to read.

The resolution of monitor should be set as 1366\*768 so as to acquire the optimum display result

1. Please enter Start---Setup---Control panel and double-click the icon of Display
2. In the page of Setup, the resolution is set as 1366\*768.

#### Damaged point of screen

Due to the restriction of LCD manufacturing process, some image points cannot normally display a certain color on LCD (i.e. the generally-called damaged point). This is a normal phenomenon. You can feel assured. For details, please refer to GB/T9813-2000. Inspection shall be conducted under the following conditions:

1. Ambient temperature: 20°C~25°C
2. Light: natural light or standard light
3. Distance for visual observation: 35cm
4. Angle for visual observation: the visual line and the screen surface form 90 degrees

### 6.4 Problems on EMS memory

After you install more EMS memories, the added memory capacity is not displayed when the self-testing is conducted for POST booting.

1. The installation of memory module may be incorrect.
2. The memory module is broken
3. Your system may be incompatible with some memory modules.

During the operation, the operating system gives out an error information on insufficient memory.

1. This problem usually results from software or Windows.
2. Please shut off unused application program software and restart the computer.
3. Otherwise, you must install more memory modules.

## Special Declaration

This laptop computer can support several peripheral devices&hardware, such as mouse, keyboard, printer and scanner. As for the peripheral equipment accompanied with the computer, the company doesn't guarantee the compatibility and reliability of its products. When users use the products, they must conform to the contents in the specifications. If consumers purchase the peripheral equipment from third parties, which will be connected to the laptop computer, please conform to the equipment specifications, correctly connecting the peripheral equipment and computer, and installing corresponding driver programs under the operating system supporting the equipment. As there are a lot of peripheral equipment manufacturers on the market, in order to guarantee the benefits of consumers, we recommend consumers to purchase quality-guaranteed products from famous manufacturers. In case that the third-party peripheral equipment are incompatible to the laptop computer, consumers should contact the third-party manufacturers.

As for software presented with the laptop computer(all the preinstalled software are presented software with the computer, they are free of charge for users), the company can guarantee the functionality and compatibility of its software. Users should refer to the user's guide for correctly using the software. Additionally, there are all kinds of software on the market, except for the special requirement by the software, most genuine software can run normally on the laptop computer. In order to guarantee the consumers' benefits, users are advised to purchase genuine software from official channels. As for any third-party software independently purchased and installed by users, users should follow the specifications for correct operation. In case that the third-party software is incompatible to the laptop computer, consumers should contact the third-party manufacturers.

It's recommended that before users purchase hardware or software from third parties, they can only purchase after the third-party manufacturers or distributors pass relevant tests in order to guarantee their interests. As for problems on third-party hardware or software, the company cannot guarantee customers' requirement for goods returning and changing. The company can supply technical support.

## Annex A product specifications

Intel N270 latest mobile computation technology adopted

### CPU

Intel N270 1600MHz

### Chipset

Intel 945GME

### System memory

DDRII SO-DIMM socket, which can be expanded to 2GB to the maximum extent.

### Displaying memory

Dynamic DDR distribution technology, DDR is 128M

### Screen

12.1" WXGA color liquid crystal LCD with 1366\*768 of resolution  
11.6" WXGA color liquid crystal LCD with 1366\*768 of resolution  
11.1" WXGA color liquid crystal LCD with 1366\*768 of resolution  
10.0" WXGA color liquid crystal LCD with 1024\*600 of resolution

### Keyboard

97 keyboard

### Touch pad

Touch pad with 2 buttons

### HD

2.5" 、 height 9.5mm 、 SATA interface

### Sound effect

Integrated Realtek Alc662 HD Audio, built around two speakers and MIC, With Audio / MIC combo interface to an external earphone, headset.

### Camera

130W Pixel (Optional function)

### I/O interface

2 USB 2.0 port  
1 DC-IN socket  
Audio&Mic two in one  
1 HDMI port  
RG45 Network Interface(Optional function)

### Wireless network

Build in wireless netbook adapter

### Power

Power adaptor: 100-24V~50-60Hz 1.5-2A Output: 2.1-3.42A

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**Battery**

As for the smart lithium battery, it can endure around 160 minutes after it's 100% charged. The actual duration period will depend on the battery condition and actuality.

**Specifications on battery:**

The duration of battery may be influenced by the following factors: times of charging and discharging, operating system, brightness setup of LCD, application program (especially video playing, such as playing DVD etc.), setup and functions used of power management (such as starting wireless function etc.). The battery lifespan of the laptop computer is limited. The efficiency and duration of battery will decrease with the increase of usage times. This kind of normal battery exhaustion is a normal phenomenon.

**Dimension**

12.1 inch about 302mm(L)\*216mm(W)\*27mm(H)

11.6 inch about 294mm(L)\*200mm(W)\*27mm(H)

11.1 inch about 276mm(L)\*198mm(W)\*32mm(H)

10.0 inch about 276mm(L)\*198mm(W)\*32mm(H)

**Weight**

About 1.14~1.30kg (including battery)

**Note:** The weight indicated is only the basic system weight and weight value is only supplied for reference. The actual weight will vary with different configuration and materials.

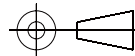
**[Note]:**

As the specifications and configuration of the laptop computer are being updated quickly, there shall be no prior notice if there is any change on the product specifications. The configuration of computer purchase by users shall be the final result.

**FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.**

8	7	6	5	4	3	2	1	
				REV.	DESCRIPTION	DESIGN	APPROVAL	DATE
				A	New Drawing			2009-03-11

备注：1. 尺寸为210\*148mm  
2. 材质为150G双铜+80G

X. $\pm$ 0.2	X. $^{\circ}$ $\pm$ 1 $^{\circ}$	UNITS mm	NAME(INTENDED USE)	<b>SHARETRONIC</b> SHARETRONIC GROUP LTD.				
.X $\pm$ 0.1	.X $^{\circ}$ $\pm$ 0.5 $^{\circ}$							
.XX $\pm$ 0.05	.XX $^{\circ}$ $\pm$ 0.1 $^{\circ}$	MATL 150g双铜纸+80g	PART NO.(INTENDED USE) U1100X50X1F	TITLE: X50中性英文说明书				
.XXX $\pm$ 0.01	.XXX $^{\circ}$ $\pm$ 0.05 $^{\circ}$			DWG NO.: DWG-XXXX-XXX				
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF SHARETRONIC GROUP LTD. AND SHALL NOT BE REPRODUCED, COPIED OR USED IN ANY MANNER WITHOUT THE PRIOR WRITTEN CONSENT OF SHARETRONIC GROUP LTD.		FINISH	APPD:			SCALE	SHEET	REV.
			CHKD:			N/A	2/3	A
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