



Mini PC User Manual

LB-1017

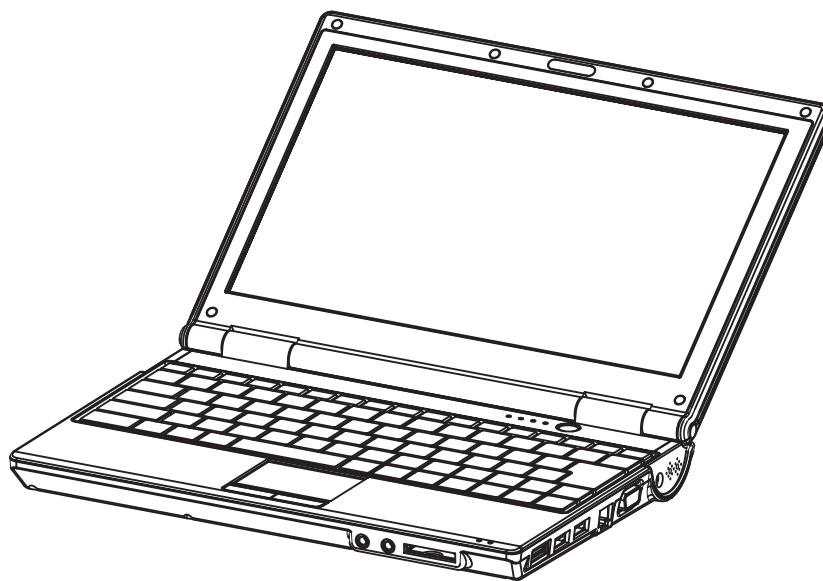


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Notes for this Manual

A few notes and warnings are used throughout this Manual, allowing you to complete certain tasks safely and effectively. These notes have different degrees of importance as follows:-



WARNING! Important information that must be followed for safe operation.



IMPORTANT! Vital information that must be followed to prevent damage to data, components, or persons.



TIP: Tips for completing tasks.



NOTE: Information for special situations.

Regulations Information (if applicable)

FCC Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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

NOTE: 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/TV technician for help.

Regulations Information (if applicable)



For better environmental protection, waste batteries should be collected separately for recycling or special disposal.



Safety Guideline for using Lithium Battery

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



WEEE Statement

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



Trademarks

All trademarks are the properties of their respective owners.

Safety Instructions

The following safety instructions will increase the life of the Product. Follow all precautions and instructions. Except as described in this Manual, refer all servicing to qualified personnel. Do not use damaged power cords, accessories, or other peripherals. Do not use strong solvents such as thinners, benzene, or other chemicals on or near the surface.



Disconnect the AC power and remove the battery pack(s) before cleaning. Wipe the Product using a clean cellulose sponge or chamois cloth dampened with a solution of nonabrasive detergent and a few drops of warm water and remove any extra moisture with a dry cloth.



Keep the User Manual that comes with the package for future reference.



Read the Safety Instructions carefully and thoroughly. All cautions and warnings on the Product or User Manual should be noted

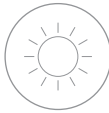


Lay the Product on a stable surface before setting it up.



Keep the Product away from humidity and high temperature.

Safety Instructions



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



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



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



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

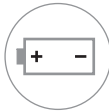


Place the power cord in a way that people are unlikely stepping on it. Do not place anything on top of the power cord.

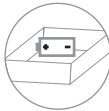


Always unplug the power cord before inserting any add-on card or module.

Safety Instructions



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



Always keep the battery in a safe place.



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



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

- The power cord or plug is damaged.
- Liquid has penetrated into the Product.
- The Product has been exposed to moisture.
- The Product has not worked well or you cannot get it work according to User Manual.
- The Product was dropped and damaged.
- The Product has obvious signs of breakage.

Safety Instructions



Transportation Precautions

To prepare the Product for transport, you should close the top cover to protect the keyboard and display panel. The Product surface is easily dulled if not properly cared for. Be careful not to rub or scrape surfaces when transporting your Product. You can put your Product in a carry bag for protection from dirt, water, shock and scratches.



Charging your battery pack

If you intend to use battery power, be sure to fully charge your battery pack and any optional battery packs before going on long trips. Remember that the power adapter charges the battery pack as long as it is plugged into the Product and an AC power source is connecting. Be aware that it takes much longer to charge the battery pack when the Product is in use.



Airplane Precautions

Contact your airline if you want to use the Product on the airplane. Most airlines have restrictions for using electronic devices. Most airlines allow electronic use only between and NOT during takeoffs and landings.

There are three main types of airport security devices: X-ray machines (used on items placed on conveyor belts), magnetic detectors (used on people walking through security checks), and magnetic wands (hand-held devices used on people or individual items). You can send your Product through airport X-ray machines. However, it is recommended that you do not send your Product through airport magnetic detectors or expose it to magnetic wands

Quick Start Guide

These are only quick instructions for using your Product. Read the following chapters for detailed information.

Unpacking

Unpack the shipping carton and check all items carefully. If any item contained is damaged or missing, please contact your local dealer immediately. The package should contain the following items:

- User Manual
- Warranty Card
- AC power adapter and power cord
- Carry bag
- Mini PC
- High-capacity Li-ion battery pack

* These accessories listed above may change without notice.

Quick Start Guide

Setup

1.Install the battery pack.

2.Connect the AC power adapter and power cord.



The wall outlet differs in type by country. Your Product ships with an adapter compliant with your national standard. Refer to the chapter “Power Managenent” for more details.










3.Open the top cover.

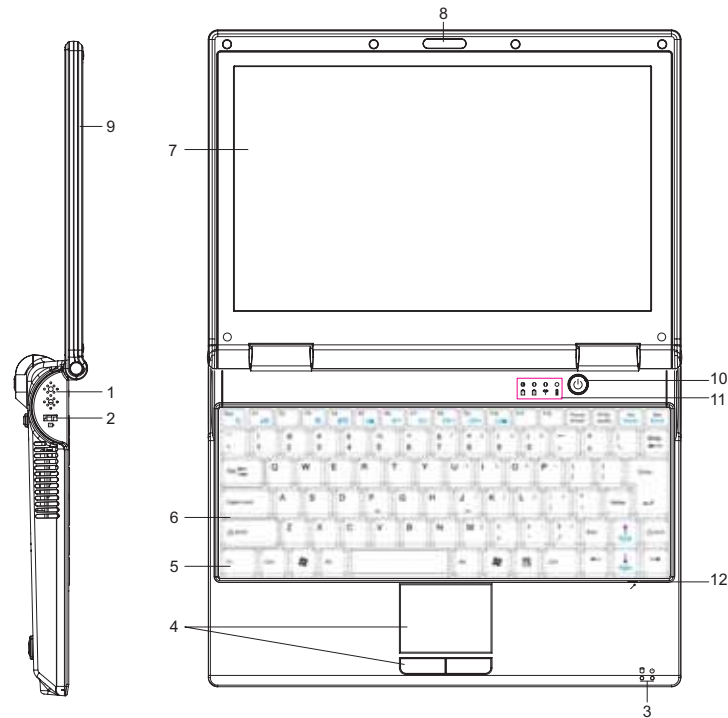
4.Turn on the power.











When you open the top cover, do not force it down to the table or else the hinges may break! Never lift the Product by the top cover!

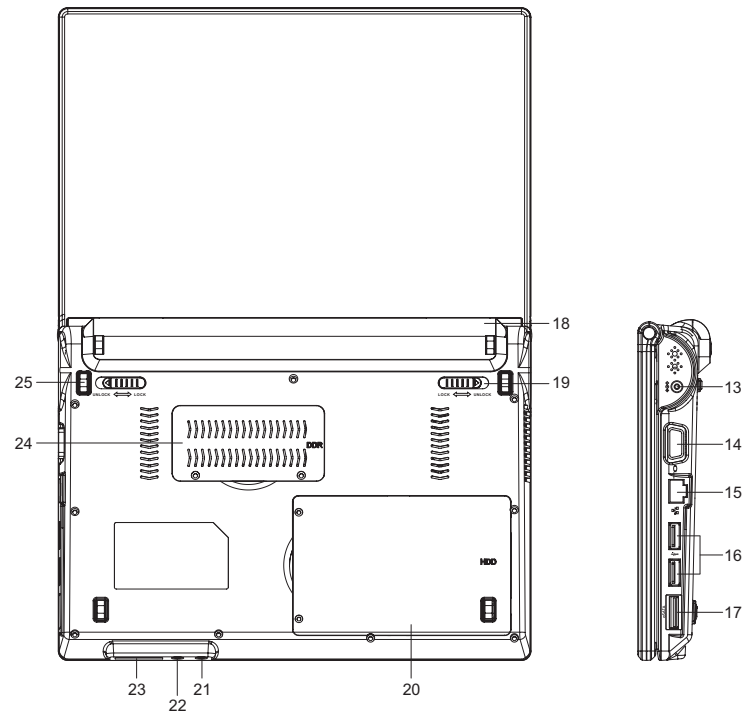
Product Overview

1. Speakers
2. Kensington® lock 
3. Indicators :  Power
 HDD activity
4. Touch Pad and Buttons
5. Keyboard
6. Wireless LAN card (under Keyboard)
7. Display panel
8. Webcam(Built-in)
9. Top cover
10. Power On/Off switch 
11. Indicators :  Number Lock
 Caps Lock
 Wireless activity
 Charger & Battery status
12. Microphone (built-in) 

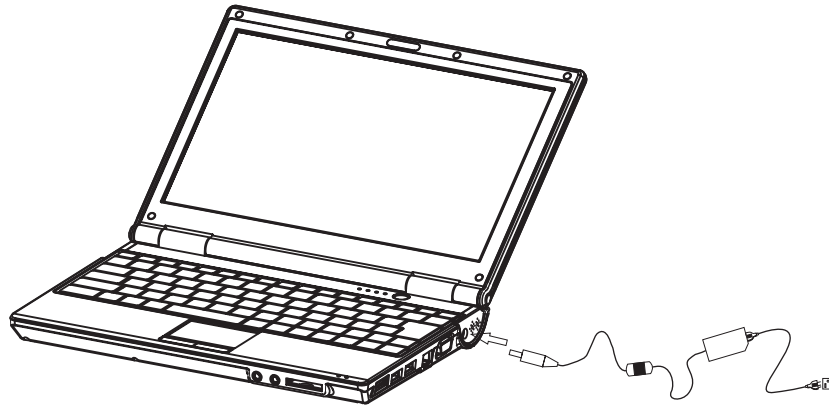


Product Overview

- 13. Power (DC) input jack 
- 14. VGA port 
- 15. LAN port 
- 16. USB 2.0 port 
- 17. eSATA port 
- 18. Battery pack
- 19. Battery lock (spring)
- 20. HDD(2.5'')
- 21. Microphone jack(pink) 
- 22. Headphone jack(green) 
- 23. Memory Card slot 
- 24. Memory(DDR)
- 25. Battery lock (manual)



Power Management



AC power adapter

It is strongly recommended to connect the AC power adapter and use the AC power while using this Product for the FIRST TIME. When the power adapter is connected, the battery pack is being charged immediately.

It is strongly recommended to use the same or equivalent AC power adapter as suggested. Using other power adapter model may damage either the Product or other devices attached to it.

Power Management

Connecting the AC power adapter

- 1) Connect the DC output cable to the Power (DC) input jack at the right hand side of your Product.
- 2) Connect the AC power adapter with the power cord.
- 3) Plug the power cord into an AC electrical outlet. When the Product is turned on, the Power Indicator turns on. When the battery pack is being charged, the Battery Indicator lights red.



The Li-ion battery pack is not charged upon purchase. Initial charging time can be up to 8 hours. We recommend the battery pack be fully charged before use. When the battery pack is fully charged, the Battery Indicator lights green

Battery pack

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

DO NOT attempt disassembling the battery pack on your own.

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

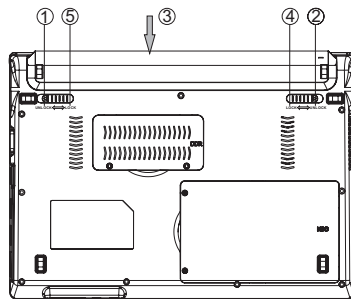
Power Management

Installing and Removing the battery pack

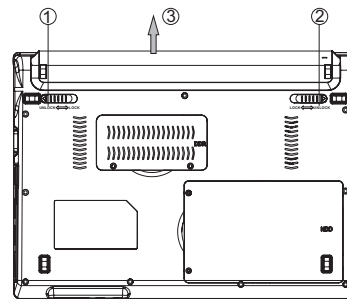
Your Product may not have its battery pack installed initially. If not, use the following procedures to install the battery pack.

 Never attempt to remove the battery pack while the Product is turned ON, as this may result in the loss of working data.

To install the battery pack:



To remove the battery pack:



Power Management



Battery pack safety tips

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

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

Conserving battery pack power

Battery pack power is critical to maintain a normal operation without AC power available. If the battery pack power is not managed well, the saved data and customized settings may be lost. To optimize battery pack power life and avoid a sudden power loss, follow the tips below:

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

Power Management



Charging the battery pack

The battery pack can be recharged while it is installed in the Product. Please note the following tips before recharging the battery pack:

- Save your work and close all running programs and shut down the system.
- Plug in the AC power adapter with AC power connected.
- You can use the system, suspend system operation or shut down and turn off the system without interrupting the charging process.
- The battery pack uses Li-ion battery cells that have no “memory effect”. It is unnecessary to discharge the battery pack before recharging. However, to optimize the battery pack life, we suggest that consuming the battery pack power completely once a month.
- If you do not use the Product for a long time, it is suggested to remove the battery pack from your Product. This may be helpful to extend your battery pack life.
- The actual charging time will be determined by the applications in use.



The bottom of the Product can get very hot. Be careful when handling the Product while it is in operation or recently been in operation. High temperatures are normal during charging or operation.

DO NOT use on soft surface such as beds or sofas which may block the vents.

DO NOT PUT the Product ON YOUR LAP OR OTHER PARTS OF THE BODY TO AVOID INJURY FROM THE HEAT.



CAUTION: The power adapter may become warm to hot when in use. Be sure NOT TO COVER the power adapter and keep it away from your body.

Specification

Graphic	VGA	Integrated UniChrome Pro
	LCD screen	10" LCD 1024*600 17:10
Mass Storage	HDD	Support one 2.5" 9.5 mm SATA (or SATA II) HDD (120GB or optional)
User Interface	Microphone	Built-in Microphone
	Keyboard	85 key with 16 mm key pitch and 2.25 mm key stroke; Standard English. Multi-national language support
	Pointing Device	Integrated Touch Pad; Left key; Right key
	LED Indicators	Power (green); Charger & Battery status (green and red); HDD activity (green); Wireless activity (green); Number Lock (green); Caps Lock (green)
Wireless LAN		One Mini PCI-E slot, support 802.11 b/g
Ethernet LAN		10/100 Mbps
Digital Camera		Built-in Webcam 0.3 M pixel (or optional)
Audio		HD Audio. Built-in stereo Speakers
Processor		Mobile VIA C7-M 1.6 Ghz; FSB 800 Mhz
Memory		DDR2 1GB 533 Mhz; one So-DIMM DDR2 memory slot support up to 1GB
Core Logic		VIA VX700
Battery life		Working time: ≥1.5 hours

Working and Storage temperature		Working temp.: 5°C(41°F) ~ 45°C(113°F); Storage temp.: 0°C(32°F) ~ 60°C(140°F)
Power Management		ACPI V2.0; S1, S3 support
Dimension		250x182x28.8~39mm
Weight		Around 1.25 Kg (including Li-ion battery pack)
Switch control		Power On/Off switch; Top cover magnetic switch (power off back-light when top cover is closed)
Power system	Battery	3 cells Li-ion battery pack, 10.8V, 2200mAh
	AC power adapter	AC 100~240 V, DC 19 V, 3000mA
I/O Ports	Video port	One 15-pin VGA port
	Audio port	Two jacks, MIC in (pink) / Line out (green)
	LAN port	One RJ-45 port
	USB port	Two 4-pin USB 2.0 ports
	eSATA port	One eSATA port for HDD
	Memory card slot	One memory card slot supporting SD, SDHC, Mini SD, Micro SD, MMC, RS-MMC, Mobile MMC, MMC-Micro, MS, MS Pro, MS Duo, MS-Pro Duo, Micro-MS (M2)
	Power jack	One Power (DC) input jack
	Security port	One Kensington® Lock
System software	BIOS	AMI CODE 8
	OS	Support Windows XP SP3 Support Windows XPe Support Linux (similar to Linpus)

Keyboard

The following defines the colored Hot keys on the Product keyboard. The colored commands can only be accessed by first pressing and holding the Function Fn key while pressing a key with a colored command.



The Hot key locations on the Function keys may vary depending on model but the functions should remain the same. Follow the icons whenever your Hot key locations do not match with the Manual.

Fn+Esc	Enter Suspend state		NumLk(8)	8	8
Fn+F1	Wireless On/Off		NumLk(7)	7	7
Fn+F3	Mute key		NumLk(O)	6	6
Fn+F4	Touch Pad On/Off		NumLk(I)	5	5
Fn+F5	LCD / CRT display switch		NumLk(U)	4	4
Fn+F6	LCD Brightness decrease		NumLk(L)	3	3
Fn+F7	LCD Brightness increase		NumLk(K)	2	2
Fn+F8	Volume decrease key		NumLk(J)	1	1
Fn+F9	Volume increase key		NumLk(M)	0	0
Fn+F10	LCD Display On/Off		NumLk(.)	. (Decimal)	.
Fn+Ins	Number Lock		NumLk(0)	* (multiply)	*
Fn+Del	Scroll Lock		NumLk(/)	/ (divide)	/
Fn+ ↑	Page Up	PgUp	NumLk(;))	+ (plus)	+
Fn+ ↓	Page Down	PgDn	NumLk(P)	- (minus)	-
NumLk(9)	9	9			

Touch Pad

The Touch Pad is a pointing device that is compatible with a standard Mouse, allowing you to locate the Cursor on the screen and make selection with its Left and Right Buttons. This Touch Pad function can be enabled / disabled by Hot Key.

Position and Move

Place your finger on the Touch Pad. When you move your fingertip across the Pad, the Cursor on the screen will move simultaneously to the same direction. When your finger reaches the edge of the Pad, lift your finger and place it on a proper location of the Pad to continue the movement.

Point and Click

With the Cursor over an item, a menu item or a command, simply tap slightly on the Pad or press the Left Button to select. Each tap on the Pad can act as pressing the Left Button. Tapping twice more rapidly on the Pad is to execute a double-click.

Drag and Drop

Drag and Drop means picking up an item and placing it anywhere on the screen you wish. To do so, place the Cursor on the desired item and tap slightly. Now you can drag the selected item to the desired location by moving your finger on the Pad, and then lift your finger from the Pad to drop the item into place. Alternatively you can press and hold the Left Button when you select an item, and then move your finger on the Pad to the desired location, finally release the Left Button to finish the Drag and Drop operation.

HDD / eSATA Port / USB Port

HDD

Your Product is equipped with a 2.5" HDD (Hard Disk Drive). It is used to install the Operating System (OS), software applications and store your data.

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

Do not turn off the Product when the HDD activity LED Indicator is on.

Do not remove or install the HDD when the Product is turned on. The replacement of HDD should be done by authorized personnel.

eSATA Port

The eSATA (External Serial Advanced Technology Attachment) port is used to connect external HDD for program / data storage and transfer. This Product is capable to auto detect the eSATA devices installed. If there is no detection of the devices, please manually enable the eSATA devices by going to Start Menu / Control Panel / Add Hardware to add the new devices.

USB Port

There are two USB (Universal Serial Bus) 2.0 ports on this Product. The USB port is used to connect various USB devices like Mouse, Keyboard, Digital Camera, Webcam, Printer, External Optical Storage Device etc. for data storage and transfer. This Product is capable to auto detect the USB devices installed. If there is no detection of the devices, please manually enable the USB devices by going to Start Menu / Control Panel / Add Hardware to add the new devices.

LAN Port / Wireless LAN Card / VGA Port

LAN Port

The RJ-45 LAN (Local Area Network) port is used to connect your Product to the LAN devices like Hub, Switch and Gateway etc, and build a network connection. It works with 10/100 Mbps. Please refer your network staff for more instructions and steps on connecting your Product to the LAN devices.

Wireless LAN Card

There is a built-in Wireless LAN card which supports standards 802.11 b/g. A Wireless Activity Indicator shows the Wireless LAN status of idle or active. This Wireless LAN function can be enabled / disabled by Hot Key. Please refer your network staff for more instructions and steps on connecting your Product to the Wireless LAN devices.

VGA Port

This Product provides a VGA (Video Graphics Array) port for connecting an external Monitor or other standard VGA-compatible device (like Projector etc) for a larger view of your Product display. This VGA port function can be enabled / disabled by Hot Key.

In addition, there are Hot keys controlling the LCD Display On/Off, LCD Brightness Increase and Decrease.

Mic In / Line Out Port / Memory Card Slot / Built-in Webcam

Mic In / Line Out Port

The Microphone Jack (Mic in port) and Headphone Jack (Line out port) are located together for the connection of Headset by which you can enjoy Internet chat / telephony, video conferencing, music and game.

There are also built-in Microphone and Speakers. The Speaker sound feature can be Muted, Volume increased and Volume decreased by Hot keys.

Memory Card Slot

The Memory Card Slot is the normal Card Reader which can access SD / MMC / MS / MS Pro memory cards. Insert or remove the memory card to and from the slot will auto detect / disable them.

Built-in Webcam

There is a built-in 0.3M pixel PC Camera on top of the LCD screen. It can be enabled or disabled by device driver.



CAUTION: Do not remove cover; there are no user-serviceable parts inside.

Do not attempt to service the Product beyond those means described in these operating instructions. All other servicing should be referred to qualified service personnel.

Troubleshooting

Symptoms & Actions

1. No power output from AC power adapter

- Check firm connection between wall outlet, power plug, power cord, power adapter and power (DC) input jack.
- Check good condition of power plug, power cord and power adapter. Replace them if worn.

2. No power output from battery pack

- Battery pack power may be too low. Connect AC power adapter for charging.

3. Battery pack does not recharge even AC power adapter is connected

- If the battery pack is too hot or too cold, it may not be recharged normally. Put the battery pack in room temperature for some time. When its temperature is close to that of room temperature, then try recharging it again.
- If the battery pack is fully discharged, it cannot be recharged immediately. Wait for a few minutes and try recharging it again.
- In order to extend the battery pack life, it will not be recharged until its power level drops to below 95% of full capacity.
- If the Charger & Battery status LED Indicator is always off, your battery pack may be in end-of-life stage. Replace the old battery pack with a new one.

4. The continuous working time of the battery pack is less than expected

- Different Operating Systems and Power Management device settings may affect the battery pack power consumption, and then the battery pack continuous working time. Try decreasing LCD Brightness or similar power saving methods to extend battery pack working time.

Troubleshooting

- If the battery pack is frequently in use without being fully recharged, it may not deliver its designed power. Try to calibrate the battery pack by repeating fully recharge and then fully discharge process 3 times.

5. The system cannot enter into Suspend state

- Check if any application software or program has not been closed.

6. Press character keys but output numbers

- Check if Number Lock LED Indicator is turned off.

7. Press any key but output different key

- Check if newly installed software or program has different keyboard setting.

8. System cannot be booted up from HDD

- It may be caused by incorrect system operation or virus damage. Try to clean virus first and then follow operation system setting properly.

9. HDD runs slowly

- The program or data files may have too many fragmentations. Run any disk-keeping program to improve the files conditions.

Troubleshooting

10. Black screen

- Check Hot Key for LCD Display On/Off.
- Check Hot Key for LCD / CRT display switch.
- Check if system in Suspend state.

11. No sound

- Check Hot key for Volume increase.
- Check the volume setting in application software or program.
- Check if Headphone or Headset is firmly connected.
- Check Windows device setting for proper sound card installed, sound output enabled, and no any device conflict.

12. USB device not working

- Check firm connection of USB cable.
- Check if USB device driver is properly installed.

13. No LAN connection

- Check firm connection of LAN cable.

* Specifications are subject to change without notice.