

# ViewSonic®

**VNB109  
NoteBook**



**ViewSonic®**

- User Guide

- Руководство пользователя

- 使用手冊 ( 简体 )

Model No. : VS13756

# Important Safety Instructions

1. DO NOT press or touch the LCD Screen. DO NOT place the Notebook PC with small items, they may scratch LCD Screen or enter the Notebook PC.
2. DO NOT expose the Notebook PC to dirty or dusty environment. Keep the environment clean and dry.
3. DO NOT place the Notebook PC on uneven or unstable work surface.
4. DO NOT place or drop objects on the top of the Notebook PC. DO NOT shove any foreign objects into the Notebook PC. DO NOT cover the LCD Screen strongly.
5. DO NOT expose the Notebook PC to strong magnetic or electrical fields; DO NOT place the floppy disk near or on the Notebook PC, that may loss the data of the floppy disk.
6. DO NOT leave the Notebook PC facing the sun as it can damage the LCD Screen, especially in the car.
7. SAFE TEMP: This Notebook PC should only be used in environments with ambient temperatures between 5° C (41° F) and 35° C(95° F).
8. DO NOT expose the Notebook PC to or use near liquids, rain, or moisture.
9. Caution: risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.
10. DO NOT throw the Notebook PC in municipal waste. Check local regulations for disposal of electronic products. Please recycle the Battery Pack, and check with your Local Authority or retailer for recycling advice.

11. The Notebook PC and the Adapter may occur some heat during operating or charging. DO NOT leave the Notebook PC on your lap or any part of the body in order to prevent discomfort or injury from heat exposure.
12. INPUT RATING: Refer to the rating label on the Notebook PC and be sure that the by the manufacturer.
13. Checking the connections between the main unit and attachments before turning on the Notebook PC.
14. DO NOT use the Notebook PC during eating food avoid dirtying the Notebook PC.
15. DO NOT insert anything into the Notebook PC that may result in short circuit or damage the circuit.
16. Powering off the Notebook PC, if you want install or remove some external devices, which are not support hot-plug.
17. Disconnect the Notebook PC from the electrical outlet and remove any installed batteries before cleaning. And Keep it away from children.
18. DO NOT disassemble the Notebook PC, only a certified service technician should perform repairs on your computer. Otherwise, problem may result and the manufacturer should not hold responsibility for the damage.
19. Only use Battery Packs approved by the manufacturer or else damage may occur.
20. The Notebook PC has some little metal flake to disperse heat. DO NOT place the Notebook PC on soft objects (e.g.: bed, sofa, your lap), or else the Notebook PC may become hot and halt the system operating.

# Declaration of RoHS Compliance

This product has been designed and manufactured in compliance with Directive 2002/95/EC of the European Parliament and the Council on restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS Directive) and is deemed to comply with the maximum concentration values issued by the European Technical Adaptation Committee (TAC) as shown below:

Substance	Proposed Maximum Concentration	Actual Concentration
Lead (Pb)	0.1%	< 0.1%
Mercury (Hg)	0.1%	< 0.1%
Cadmium (Cd)	0.01%	< 0.01%
Hexavalent Chromium (Cr <sup>6+</sup> )	0.1%	< 0.1%
Polybrominated biphenyls (PBB)	0.1%	< 0.1%
Polybrominated diphenyl ethers (PBDE)	0.1%	< 0.1%

Certain components of products as stated above are exempted under the Annex of the RoHS Directives as noted below:

Examples of exempted components are:

1. Mercury in compact fluorescent lamps not exceeding 5 mg per lamp and in other lamps not specifically mentioned in the Annex of RoHS Directive.
2. Lead in glass of cathode ray tubes, electronic components, fluorescent tubes, and electronic ceramic parts (e.g. piezoelectronic devices).
3. Lead in high temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead).
4. Lead as an alloying element in steel containing up to 0.35% lead by weight, aluminium containing up to 0.4% lead by weight and as a copper alloy containing up to 4% lead by weight.

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Award® is a registered trademark of Phoenix Technologies Ltd.

AMI® is a registered trademark of American Megatrends Inc.

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# Product Registration

To meet your future needs, and to receive any additional product information as it becomes available, please register your product on the Internet at: **www.viewsonic.com**. The ViewSonic Wizard CD-ROM also provides an opportunity for you to print the registration form, which you may mail or fax to ViewSonic.

## For Your Records

Product Name:	VNB109 ViewSonic NoteBook
Model Number:	VS13756
Document Number:	VNB109_UG_ENG Rev. 1B 10-20-10
Serial Number:	_____
Purchase Date:	_____

## **Product disposal at end of product life**

ViewSonic is concerned about the preservation of our environment. Please dispose of this product properly at the end of its useful life. For the recycling information, please refer to our website:

USA & Canada: <http://www.viewsonic.com/company/green/recycle-program/>

Europe: <http://www.viewsoniceurope.com/uk/support/recycling-information/>

Taiwan: <http://recycle.epa.gov.tw/recycle/index2.aspx>



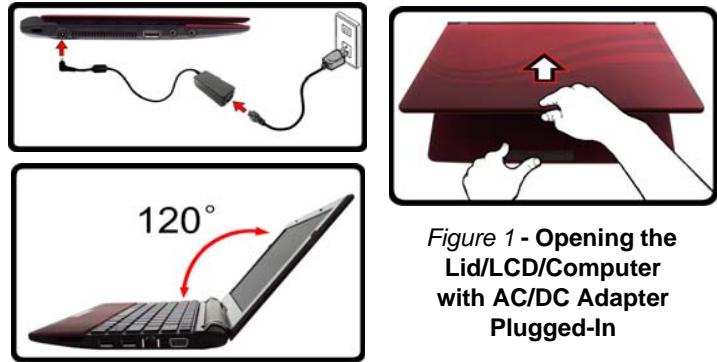
# About this Quick Guide

This quick guide is a brief introduction to getting your system started. This is a supplement, and not a substitute for the expanded English language *User's Manual* in *Adobe Acrobat* format on the *Device Drivers & Utilities + User's Manual* disc supplied with your computer. This disc also contains the drivers and utilities necessary for the proper operation of the computer (**Note:** The company reserves the right to revise this publication or to change its contents without notice).

Some or all of the computer's features may already have been setup. If they aren't, or you are planning to re-configure (or re-install) portions of the system, refer to the expanded *User's Manual*. The *Device Drivers & Utilities + User's Manual* disc does not contain an operating system.

## System Startup

1. Remove all packing materials.
2. Place the computer on a stable surface.
3. Securely attach any peripherals you want to use with the computer (e.g. keyboard and mouse) to their ports.
4. Attach the AC/DC adapter to the DC-In jack on the left of the computer, then plug the AC power cord into an outlet, and connect the AC power cord to the AC/DC adapter.
5. Use one hand to raise the lid/LCD to a comfortable viewing angle (do not exceed 120 degrees); use the other hand (as illustrated in [Figure 1](#)) to support the base of the computer (**Note: Never** lift the computer by the lid/LCD).
6. Press the power button to turn the computer "on".



**Figure 1 - Opening the Lid/LCD/Computer with AC/DC Adapter Plugged-In**

## System Software

Your computer may already come with system software pre-installed. Where this is not the case, or where you are re-configuring your computer for a different system, you will find this manual refers to *Microsoft Windows 7*.

## System Map: Front View with LCD Panel Open



Figure 2 - Front View with LCD Panel Open

- 1. Built-In PC Camera
- 2. LCD
- 3. Keyboard
- 4. Built-In Microphone
- 5. Touchpad & Buttons
- 6. LED Indicators

## LED Indicators

The LED indicators on the computer display helpful information about the current status of the computer.






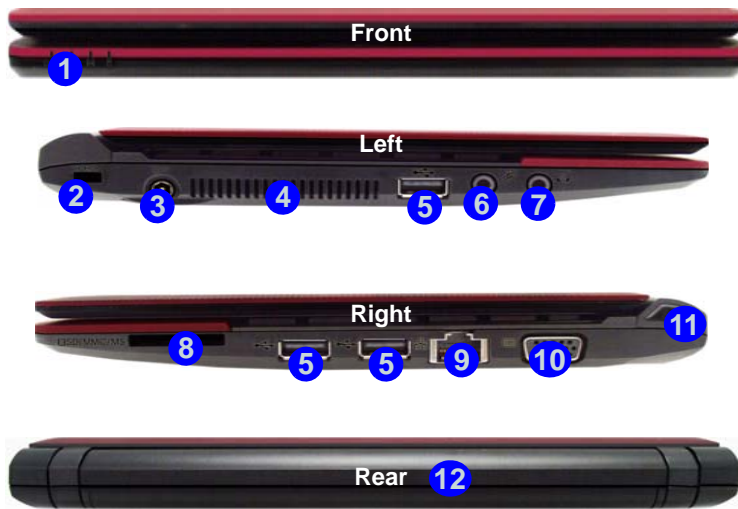
Icon	Color	Description
		
	Orange	DC Power is Plugged In
	Green	The Computer is On
	Blinking Green	The Computer is in Sleep Mode
	Orange	The Battery is Charging
	Green	The Battery is Fully Charged
	Blinking Orange	The Battery Has Reached Critically Low Power Status
	Green	Hard Disk Activity
	Green	The Wireless LAN Module is Powered On
	Orange	The Bluetooth Module is Powered On


Table 1 - LED Indicators

## System Map: Front, Left, Right, & Rear Views



**Figure 3 - Front, Left, Right & Rear Views**


- |                       |                           |
|-----------------------|---------------------------|
| 1. LED Indicators     | 7. Headphone-Out Jack     |
| 2. Security Lock Slot | 8. 3-in-1 Card Reader     |
| 3. DC-In Jack         | 9. RJ-45 LAN Jack         |
| 4. Vent               | 10. External Monitor Port |
| 5. 3 * USB 2.0 Ports  | 11. Power Button          |
| 6. Microphone-In Jack | 12. Battery               |



**3-in-1 Card Reader**

The card reader allows you to use the most popular digital storage card formats:

MMC (MultiMedia Card) / RS MMC  
SD (Secure Digital) / Mini SD / SDHC / SDXC  
MS (Memory Stick) / MS pro / MS Duo



The color is for reference only. It would be different by actual model.



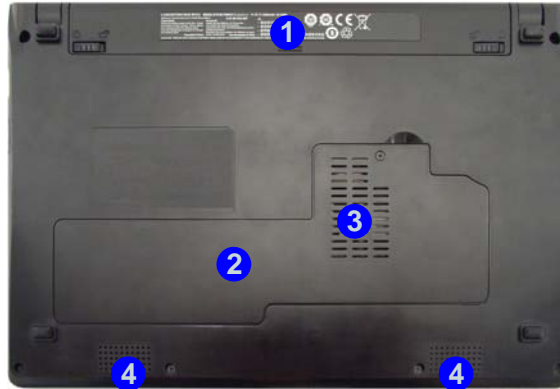
**Overheating**

To prevent your computer from overheating make sure nothing blocks any vent while the computer is in use.

# System Map: Bottom View

Figure 4  
Bottom View

1. Battery
2. Component Bay Cover
3. Vent
4. Speakers



## Overheating

To prevent your computer from overheating make sure nothing blocks any vent while the computer is in use.

## CPU

The CPU is not a user serviceable part. Opening this compartment, or accessing the CPU in any way, may violate your warranty.



## Battery Information

Always completely discharge, then fully charge, a new battery before using it. Completely discharge and charge the battery at least once every 30 days or after about 20 partial discharges (see the expanded *User's Manual* on the *Device Drivers & Utilities + User's Manual* disc).

# Keyboard & Function Keys

The keyboard has a numeric keypad for easy numeric data input. Pressing the **Fn + NumLk** keys turns on/off the numeric keypad. It also features function keys to allow you to change operational features instantly. The function keys (**F1 - F12** etc.) will act as hot keys when pressed while the **Fn** key is held down. In addition to the basic function key combinations, visual indicators are available when the hot key driver is installed.



Figure 5 - Keyboard





















Keys	Function/Visual Indicators	Keys	Function/Visual Indicators
Fn + ~	Play/Pause (in Audio/Video Programs)	Fn + F8/F9	Brightness Decrease/Increase  
Fn + F1	Touchpad Toggle  	Fn + F10	PC Camera Power Toggle  
Fn + F2	Turn LCD Backlight Off (Press a key to or use Touchpad to turn on)	Fn + F11	WLAN Module Power Toggle  
Fn + F3	Mute Toggle  	Fn + F12	Bluetooth Module Power Toggle  
Fn + F4	Sleep Toggle	Fn + NumLk	Numeric Keypad Toggle  
Fn + F5/F6	Volume Decrease/ Increase  	Fn + ScrLk	Scroll Lock Toggle  
Fn + F7	Display Toggle	Caps Lock	Caps Lock Toggle  

Table 2 - Function Keys & Visual Indicators



### Driver Installation General Guidelines

As a general guide follow the default on-screen instructions for each driver (e.g. **Next > Next > Finish**) unless you are an advanced user. In many cases a restart is required to install the driver.

Make sure any modules (e.g. PC Camera, WLAN) are **ON** before installing the appropriate driver.

### Windows Update

After installing all the drivers make sure you enable Windows Update in order to get all the latest security updates etc. (all updates will include the latest hotfixes from Microsoft).

# Driver Installation

The *Device Drivers & Utilities + User's Manual* disc contains the drivers and utilities necessary for the proper operation of the computer. This setup will probably have already been done for you. If this is not the case, insert the disc and click **Install Drivers** (button), or **Option Drivers** (button) to access the **Optional** driver menu. Install the drivers **in the order indicated** in *Figure 6*. Click to select the drivers you wish to install (you should note down the drivers as you install them). **Note:** If you need to reinstall any driver, you should uninstall the driver first.

If the **Found New Hardware** wizard appears during the installation procedure, click **Cancel** to close the window, and follow the installation procedure as directed.

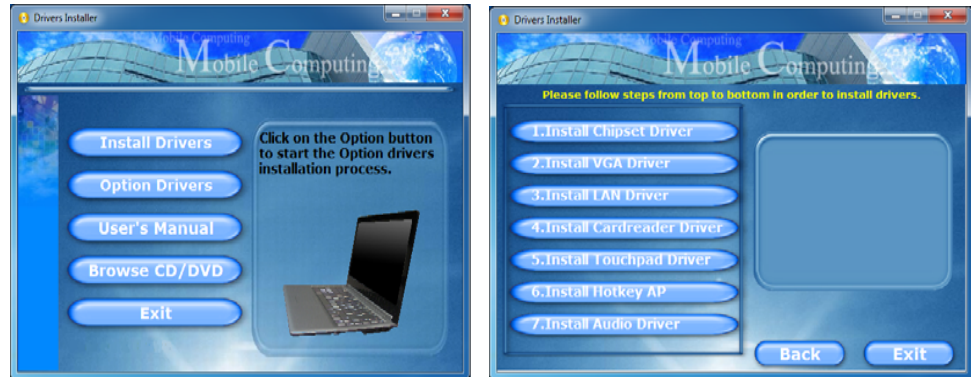


Figure 6 - Install Drivers




### Wireless Device Operation Aboard Aircraft

The use of any portable electronic transmission devices aboard aircraft is usually prohibited. **Make sure the wireless modules are OFF if you are using the computer aboard aircraft.**

Use the key combinations to toggle power to the **3.75G/HSPA/WLAN/Bluetooth** modules, and check the LED indicator/visual indicator to see if the modules are powered on or not (see [Table 1 on page2](#) and [Table 2 on page5](#)).

## Troubleshooting

Problem	Possible Cause - Solution
The <b>Wireless LAN indicators</b>  show that the WLAN module is powered on, however the module does not connect.	<i>The WLAN module is turned off in the <b>Windows Mobility Center</b>. The computer's wireless function keys will not function properly if <b>Wireless</b> is turned <b>OFF</b> in the <b>Windows Mobility Center</b> control panel. Make sure that Wireless is <b>ON</b> in the <b>Windows Mobility Center</b> to ensure proper function key behavior.</i>
The <b>Bluetooth</b> module is <b>off</b> after resuming from Sleep.	<i>The <b>Bluetooth</b> module's default state will be off after resuming from the <b>Sleep power-saving state</b>. Use the key combination (<b>Fn + F12</b>) to power on the Bluetooth module after the computer resumes from Sleep.</i>
The captured video files from the <b>PC Camera</b> are taking up too much disk space.	<p>Note that capturing high resolution video files requires a substantial amount of disk space for each file.</p> <p>Note that the <b>Windows</b> system requires a minimum of <b>15GB</b> of free space on the <b>C: drive</b> system partition. It is recommended that you save the capture video file to a location other than the <b>C:drive</b>, limit the file size of the captured video or reduce video resolution (<b>Options &gt; Video Capture Pin... &gt; Output Size</b>).</p>

# Specifications



## Latest Specification Information

The specifications listed in this here are correct at the time of going to press. Certain items (particularly processor types/speeds) may be changed, delayed or updated due to the manufacturer's release schedule. Check with your service center for detail.

### Processor

Intel® Atom™ Processor N455  
1.66 GHz, 512KB L2 Cache, 667MHz FSB,  
TDP:5.5W

### Display

10.1" (25,6cm) WSVGA TFT LCD

### Core Logic

Intel® NM10 Express Chipset

### Memory

One 200 Pin SO-DIMM Socket Supporting  
**DDR2 667MHz** Memory  
Memory Expandable up to **2GB**

### Video Adapter

Intel **GMA 3150**  
Shared Memory Architecture (DVMT) up to  
**384MB**  
MS DirectX® 9.0 compatible

### Storage

One Changeable 2.5" 9.5mm (h) SATA  
Hard Disk Drive

### BIOS

One 8Mb SPI Flash ROM  
Phoenix™ BIOS

### Audio

High Definition Audio Compliant Interface  
2 \* Built-In Speakers  
Built-In Microphone

### Security

Kensington Lock Slot  
BIOS Password

### Interface

Three USB 2.0 Ports  
One Headphone-Out Jack  
One Microphone-In Jack  
One External Monitor Port  
One RJ-45 LAN Jack  
One DC-in Jack

### Keyboard

"WinKey" keyboard (with embedded  
numeric keypad)

### Pointing Device

Built-in Touchpad



## Communication

10Mb/100Mb Ethernet LAN

300K Pixel USB PC Camera Module

**(Factory Option)** Bluetooth 2.1 + EDR  
Module

802.11b/g/n Wireless LAN Half Mini-Card  
Module

## Card Reader

Embedded 3-in-1 Card Reader

MMC (MultiMedia Card) / RS MMC

SD (Secure Digital) / Mini SD / SDHC/  
SDXC

MS (Memory Stick) / MS pro / MS Duo

## Power

Full Range AC/DC Adapter

AC Input: 100 - 240V, 50 - 60Hz

DC Output: 19V, 1.57A/ 1.58A (**30W**)

Removable 3 Cell Smart Lithium-Ion Battery  
Pack, 24.42WH

## Environmental Spec

### Temperature

Operating: 5°C - 35°C

Non-Operating: -20°C - 60°C

### Relative Humidity

Operating: 20% - 80%

Non-Operating: 10% - 90%

## Dimensions & Weight

266mm (w) x 185mm (d) x 19.7 - 27.1mm  
(h)

**0.93kg** (with 24.42WH Battery)

# Customer Support

For technical support or product service, see the table below or contact your reseller.

**NOTE:** You will need the product serial number.

Country/Region	Website	T = Telephone F = FAX	Email
Australia/New Zealand	<a href="http://www.viewsonic.com.au">www.viewsonic.com.au</a>	AUS= 1800 880 818 NZ= 0800 008 822	<a href="mailto:service@au.viewsonic.com">service@au.viewsonic.com</a>
Canada	<a href="http://www.viewsonic.com">www.viewsonic.com</a>	T (Toll-Free)= 1-866-463-4775 T (Toll)= 1-424-233-2533 F= 1-909-468-3757	<a href="mailto:service.ca@viewsonic.com">service.ca@viewsonic.com</a>
Europe	<a href="http://www.viewsoniceurope.com">www.viewsoniceurope.com</a>	<a href="http://www.viewsoniceurope.com/uk/Support/Calldesk.htm">www.viewsoniceurope.com/uk/Support/Calldesk.htm</a>	
Hong Kong	<a href="http://www.hk.viewsonic.com">www.hk.viewsonic.com</a>	T= 852 3102 2900	<a href="mailto:service@hk.viewsonic.com">service@hk.viewsonic.com</a>
India	<a href="http://www.in.viewsonic.com">www.in.viewsonic.com</a>	T= 1800 11 9999	<a href="mailto:service@in.viewsonic.com">service@in.viewsonic.com</a>
Ireland (Eire)	<a href="http://www.viewsoniceurope.com/uk/">www.viewsoniceurope.com/uk/</a>	<a href="http://www.viewsoniceurope.com/uk/support/call-desk/">support/call-desk/</a>	<a href="mailto:service_ie@viewsoniceurope.com">service_ie@viewsoniceurope.com</a>
Korea	<a href="http://www.kr.viewsonic.com">www.kr.viewsonic.com</a>	T= 080 333 2131	<a href="mailto:service@kr.viewsonic.com">service@kr.viewsonic.com</a>
Latin America (Argentina)	<a href="http://www.viewsonic.com/la/">www.viewsonic.com/la/</a>	T= 0800-4441185	<a href="mailto:soporte@viewsonic.com">soporte@viewsonic.com</a>
Latin America (Chile)	<a href="http://www.viewsonic.com/la/">www.viewsonic.com/la/</a>	T= 1230-020-7975	<a href="mailto:soporte@viewsonic.com">soporte@viewsonic.com</a>
Latin America (Columbia)	<a href="http://www.viewsonic.com/la/">www.viewsonic.com/la/</a>	T= 01800-9-157235	<a href="mailto:soporte@viewsonic.com">soporte@viewsonic.com</a>

Country/Region	Website	T = Telephone F = FAX	Email
Latin America (Mexico)	<a href="http://www.viewsonic.com/la/">www.viewsonic.com/la/</a>	T= 001-8882328722	soporte@viewsonic.com
Renta y Datos, 29 SUR 721, COL. LA PAZ, 72160 PUEBLA, PUE. Tel: 01.222.891.55.77 CON 10 LINEAS Electroser, Av Reforma No. 403Gx39 y 41, 97000 Mérida, Yucatán. Tel: 01.999.925.19.16 Other places please refer to <a href="http://www.viewsonic.com/la/soporte/index.htm#Mexico">http://www.viewsonic.com/la/soporte/index.htm#Mexico</a>			
Latin America (Peru)	<a href="http://www.viewsonic.com/la/">www.viewsonic.com/la/</a>	T= 0800-54565	soporte@viewsonic.com
Macau	<a href="http://www.hk.viewsonic.com">www.hk.viewsonic.com</a>	T= 853 2870 0303	service@hk.viewsonic.com
Middle East	<a href="http://ap.viewsonic.com/me/">ap.viewsonic.com/me/</a>	Contact your reseller	service@ap.viewsonic.com
Puerto Rico & Virgin Islands	<a href="http://www.viewsonic.com">www.viewsonic.com</a>	T= 1-800-688-6688 (English) T= 1-866-379-1304 (Spanish) F= 1-909-468-3757	service.us@viewsonic.com soporte@viewsonic.com
Singapore/Malaysia/ Thailand	<a href="http://www.viewsonic.com.sg">www.viewsonic.com.sg</a>	T= 65 6461 6044	service@sg.viewsonic.com
South Africa	<a href="http://ap.viewsonic.com/za/">ap.viewsonic.com/za/</a>	Contact your reseller	service@ap.viewsonic.com
United Kingdom	<a href="http://www.viewsoniceurope.com/uk/">www.viewsoniceurope.com/uk/</a>	<a href="http://www.viewsoniceurope.com/uk/support/call-desk/">www.viewsoniceurope.com/uk/ support/call-desk/</a>	service_gb@viewsoniceurope.com
United States	<a href="http://www.viewsonic.com">www.viewsonic.com</a>	T (Toll-Free)= 1-800-688-6688 T (Toll)= 1-424-233-2530 F= 1-909-468-3757	service.us@viewsonic.com

# Limited Warranty

## VIEWSONIC® NOTEBOOK

### **What the warranty covers:**

ViewSonic warrants its products to be free from defects in material and workmanship during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, ViewSonic will, at its sole option, repair or replace the product with a similar product. Replacement Product or parts may include remanufactured or refurbished parts or components. The replacement unit will be covered by the balance of the time remaining on the customer's original limited warranty. ViewSonic provides no warranty for the third-party software included with the product or installed by the customer.

### **How long the warranty is effective:**

ViewSonic NoteBook products are warranted for (1) year from the first consumer purchase for parts and labor.

User is responsible for the back up of any data before returning the unit for service. ViewSonic is not responsible for any data lost.

### **Who the warranty protects:**

This warranty is valid only for the first consumer purchaser.

### **What the warranty does not cover:**

1. Any product on which the serial number has been defaced, modified or removed.
2. Damage, deterioration or malfunction resulting from:

- a. Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
  - a. Any damage of the product due to shipment.
  - a. Removal or installation of the product.
  - a. Causes external to the product, such as electrical power fluctuations or failure.
  - a. Use of supplies or parts not meeting ViewSonic's specifications.
  - a. Normal wear and tear.
  - a. Any other cause which does not relate to a product defect.
3. Any product exhibiting a condition commonly known as image burn-in which results when a static image is displayed on the product for an extended period of time.
  4. Removal, installation, one way transportation, insurance, and set-up service charges.

**How to get service:**

1. For information about receiving service under warranty, contact ViewSonic Customer Support (Please refer to Customer Support page). You will need to provide your product's serial number.
2. To obtain warranty service, you will be required to provide (a) the original dated sales slip, (b) your name, (c) your address, (d) a description of the problem, and (e) the serial number of the product.
3. Take or ship the product freight prepaid in the original container to an authorized ViewSonic service center or ViewSonic.
4. For additional information or the name of the nearest ViewSonic service center, contact ViewSonic.

**Limitation of implied warranties:**

There are no warranties, express or implied, which extend beyond the description contained herein including the implied warranty of merchantability and fitness for a particular purpose.

**Exclusion of damages:**

ViewSonic's liability is limited to the cost of repair or replacement of the product. ViewSonic shall not be liable for:

1. Damage to other property caused by any defects in the product, damages based upon inconvenience, loss of use of the product, loss of time, loss of profits, loss of business opportunity, loss of goodwill, interference with business relationships, or other commercial loss, even if advised of the possibility of such damages.
2. Any other damages, whether incidental, consequential or otherwise.
3. Any claim against the customer by any other party.
4. Repair or attempted repair by anyone not authorized by ViewSonic.

**Effect of state law:**

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on implied warranties and/or do not allow the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

**Sales outside the U.S.A. and Canada:**

For warranty information and service on ViewSonic products sold outside of the U.S.A. and Canada, contact ViewSonic or your local ViewSonic dealer.

The warranty period for this product in mainland China (Hong Kong, Macao and Taiwan Excluded) is subject to the terms and conditions of the Maintenance Guarantee Card.

For users in Europe and Russia, full details of warranty provided can be found in [www.viewsoniceurope.com](http://www.viewsoniceurope.com) under Support/Warranty Information.

