

ViewSonic®



PD1011 Pen Display User Guide

IMPORTANT: Please read this User Guide to obtain important information on installing and using your product in a safe manner, as well as registering your product for future service. Warranty information contained in this User Guide will describe your limited coverage from ViewSonic Corporation, which is also found on our web site at <http://www.viewsonic.com> in English, or in specific languages using the Regional selection box in the upper right corner of our website. "Antes de operar su equipo lea cuidadosamente las instrucciones en este manual"

Model No. VS16002

Thank you for choosing ViewSonic

With over 25 years as a world leading provider of visual solutions, ViewSonic is dedicated to exceeding the world's expectations for technological evolution, innovation, and simplicity. At ViewSonic, we believe that our products have the potential to make a positive impact in the world, and we are confident that the ViewSonic product you have chosen will serve you well.

Once again, thank you for choosing ViewSonic !



Compliance Information

For U.S.A.

This device complies with part 15 of 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.

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.

Warning: You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

For Canada

CAN ICES-3 (B)/NMB-3(B)

CE Conformity for European Countries

CE The device complies with the EMC Directive 2014/30/EU and Low Voltage Directive 2014/35/EU.

Following information is only for EU-member states:

The mark shown to the right is in compliance with the Waste Electrical and Electronic Equipment Directive 2012/19/EU (WEEE).



The mark indicates the requirement NOT to dispose the equipment as unsorted municipal waste, but use the return and collection systems according to local law.

If the batteries, accumulators and button cells included with this equipment, display the chemical symbol Hg, Cd, or Pb, then it means that the battery has a heavy metal content of more than 0.0005% Mercury or more than, 0.002% Cadmium, or more than 0.004% Lead.



Important Safety Instructions

1. DO NOT place objects on top of the device, as objects may scratch the screen.
2. DO NOT expose the device to dirty or dusty environments.
3. DO NOT place the device on an uneven or unstable surface.
4. DO NOT insert any foreign objects into the device.
5. DO NOT expose the device to strong magnetic or electrical field.
6. DO NOT expose the device to direct sunlight as it can damage the LCD Screen. Keep it away from heat sources.
7. DO NOT use the device in the rain.
8. Please check with your Local Authority or retailer for proper disposal of electronic products.
9. The device may produce some heat during normal operation or charging. To prevent discomfort or injury from heat exposure, DO NOT leave the device on your lap.
10. POWER INPUT RATING: Refer to the rating label on the device. Only use accessories specified by the manufacturer.
11. DO NOT use any sharp object to tap the screen.
12. Clean the touch screen with a soft cloth. If needed, dampen the cloth slightly before cleaning. Never use abrasives or cleaning solutions.
13. Disconnect the device from an electrical outlet and power off before cleaning the device.
14. DO NOT disassemble the device. Only a certified service technician should perform repair.
15. Users have to use the connection to USB interfaces with USB 2.0 version or higher.

Declaration of RoHS2 Compliance

This product has been designed and manufactured in compliance with Directive 2011/65/EU of the European Parliament and the Council on restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS2 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 ⁶⁺)	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 III of the RoHS2 Directives as noted below:

Examples of exempted components are:

1. Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp):
 - (1) Short length (≤ 500 mm): maximum 3.5 mg per lamp.
 - (2) Medium length (> 500 mm and $\leq 1,500$ mm): maximum 5 mg per lamp.
 - (3) Long length ($> 1,500$ mm): maximum 13 mg per lamp.
2. Lead in glass of cathode ray tubes.
3. Lead in glass of fluorescent tubes not exceeding 0.2% by weight.
4. Lead as an alloying element in aluminium containing up to 0.4% lead by weight.
5. Copper alloy containing up to 4% lead by weight.
6. Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead).
7. Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectric devices, or in a glass or ceramic matrix compound.

Copyright Information

Copyright © ViewSonic® Corporation, 2016. All rights reserved.

ViewSonic and the three birds logo are registered trademarks of ViewSonic Corporation.

Disclaimer: ViewSonic Corporation shall not be liable for technical or editorial errors or omissions contained herein; nor for incidental or consequential damages resulting from furnishing this material, or the performance or use of this product.

In the interest of continuing product improvement, ViewSonic Corporation reserves the right to change product specifications without notice. Information in this document may change without notice.

No part of this document may be copied, reproduced, or transmitted by any means, for any purpose without prior written permission from ViewSonic Corporation.

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.

For Your Records

Product Name:	PD1011 ViewSonic Pen Display
Model Number:	VS16002
Document Number:	PD1011_UG_ENG Rev. 1C 02-24-17
Serial Number:	_____
Purchase Date:	_____

Product disposal at end of product life

ViewSonic respects the environment and is committed to working and living green. Thank you for being part of Smarter, Greener Computing. Please visit ViewSonic website to learn more.

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>

Contents

Compliance Information.....	i
Important Safety Instructions.....	iii
Declaration of RoHS2 Compliance.....	iv
Copyright Information	v
Product Registration	v
1. Introduction.....	1
1.1 Packing list	1
1.2 Product overview.....	1
2. Installation and Setting	3
2.1 Install driver	3
2.2 Set the display area.....	6
2.3 Handwriting area correspondence	7
2.4 More touch settings	8
3. Troubleshooting	10
3.1 Screen problems	10
3.2 Problems of interactive electromagnetic pen	11
4. Product Specification.....	12
4.1 Screen	12
4.2 Interactive electromagnetic pen	13
5. Appendix.....	14
5.1 Replace the pen tip	14
Customer Support	15
Limited Warranty	16

1. Introduction

1.1 Packing list

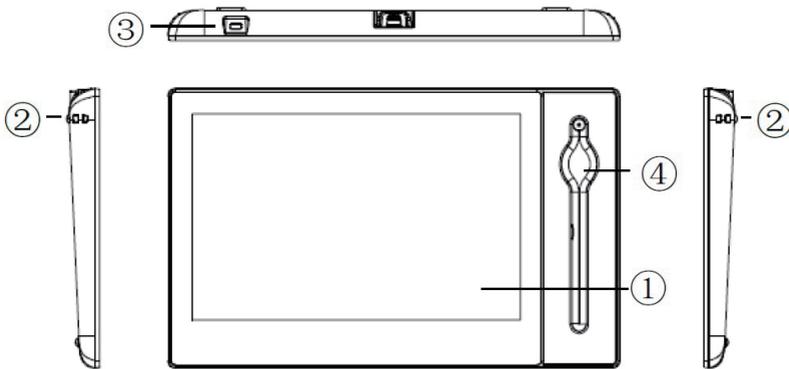
After unpacking, please confirm whether the following contents are included:

- Electromagnetic pen display
- USB 2.0 cable
- Electromagnetic pen
- Pen rope
- Pen tip x 3
- Pen tip replacement tool
- User Guide
- Warranty card (only Chinese zone)

For any part flaws or defects, please consult the original product dealer.

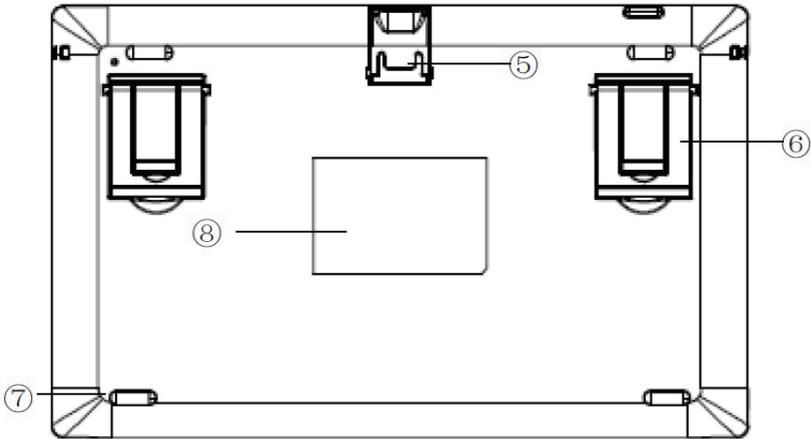
1.2 Product overview

1.2.1 Front view and side view



- ① Display and electromagnetic pen touch area
- ② Rope hanging hole
- ③ Kensington lock hole
- ④ Pen slot

1.2.2 Rear view



- ⑤ USB slot: signal input and power supply
- ⑥ Large and small supports (x2), can be extended or retracted
- ⑦ Rubber foot pad (x4)
- ⑧ Nameplate sticker

Note: please don't open the enclosure, which exists electric shock hazard.
Please contact with the service personnel for any problem.

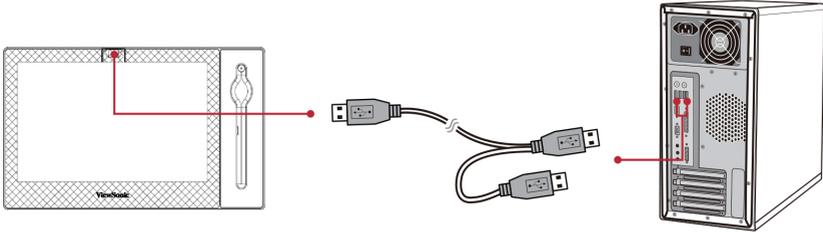
1.2.3 Interactive electromagnetic pen

The interactive electromagnetic pen is made with electromagnetic resonance technology and does not require batteries.

2. Installation and Setting

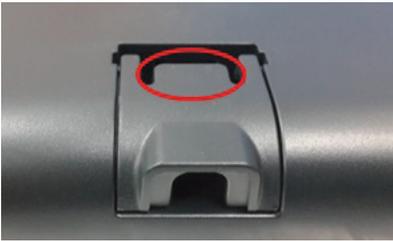
2.1 Install driver

Connect the device and PC/NB with attached USB cable, as shown below.



Note: PC/NB end shall also be connected with two USB terminals, to ensure stable power supply.

USB cover is easier to open by pressing the red box first.



2.1.1 Install DisplayLink display adapter driver and software

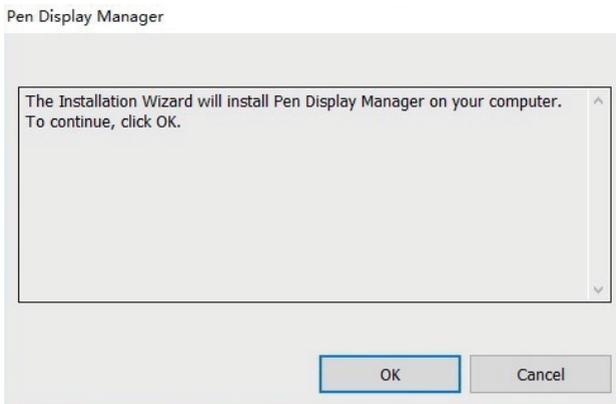
- 1) Open the driver and attached software disk, and click and install **[DisplayLink-xx.exe]** at Windows.



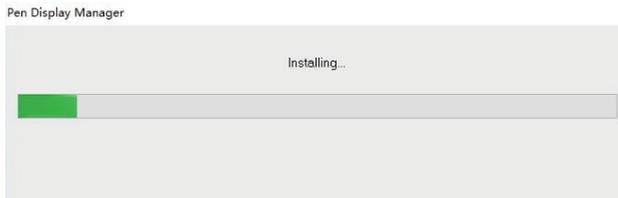
- 2) Click **[Agree]** to start the installation. Then, the installer will be automatically completed.

2.1.2 Install handwriting driver

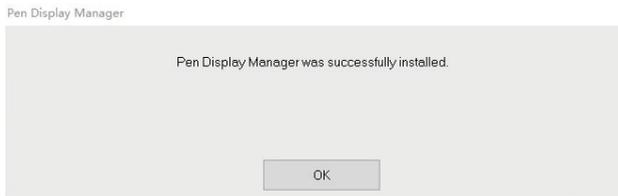
- 1) Open the driver disk, click and install **[viewsonic-xx.exe]** at Windows, **Pen Display Manager** will appear on the start page immediately.



2) Then, complete all steps as per the setting guide.



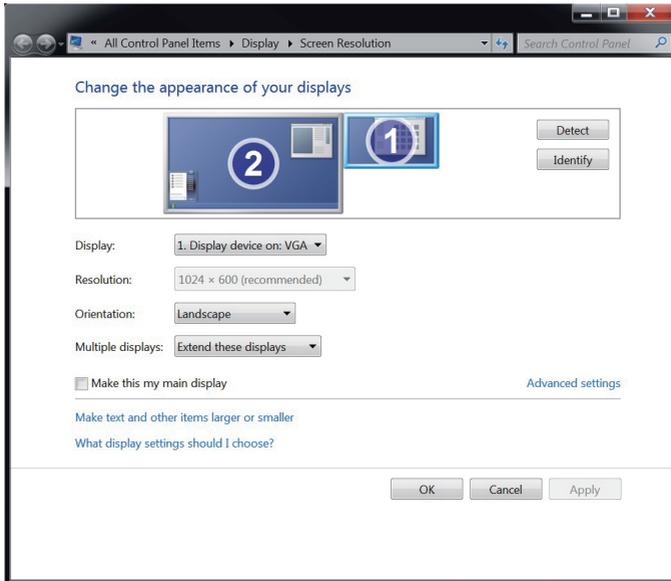
3) You must reboot the computer after the installation is completed.



2.2 Set the display area

Windows 7 and Windows 8 setting environments

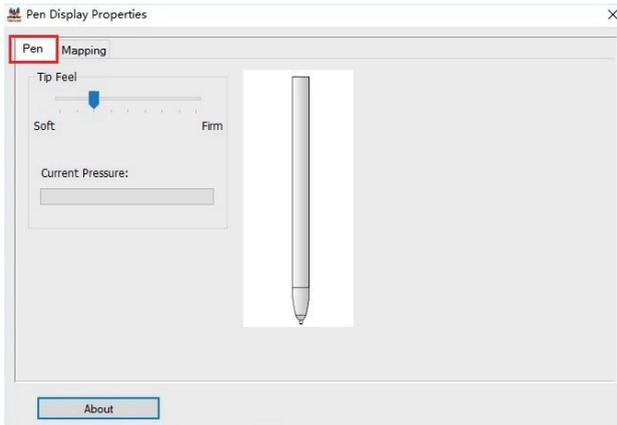
Press [Start] icon, open [Control panel], enter into [Display] and select [Adjust resolution], then the setting window will open.



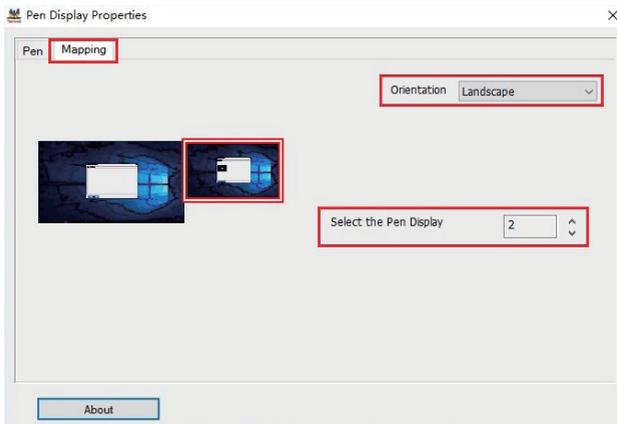
- 1) When installing Pen Display device, you will see an additional [Multiple Displays] option.
- 2) Multiple Displays provides 4 display options:
 - a. Synchronous display on these displays: mirror display mode, will be changed to main screen and copied screen with same resolution.
 - b. Extend these displays: extend the display to the right (preset setting).
 - c. Display the desktop on 1 only: only display the desktop of main screen.
 - d. Display the desktop on 2 only: only display the desktop of extended screen.
- 3) Select [Extend these displays], press [OK] and exit.

2.3 Handwriting area correspondence

- 1) Select the  image on the bottom right hand corner to enter the setting.
- 2) Under “Pen” tab, adjust the tip feel from soft to firm.



- 3) Under the “Mapping” tab, set the “Orientation” to “Landscape” and “Select the Pen Display” to “2”.



- 4) Close the window to save the changes.

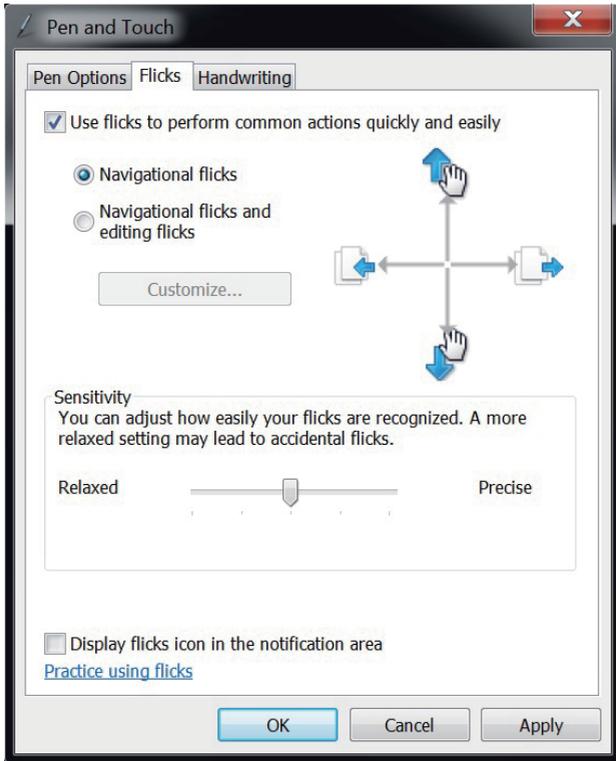
Note: the electromagnetic pen supports multistage pressure. When drawing with pressure, please select one pressure sensing tool from tool palette of the application. When you press the pen tip slightly, the electromagnetic pen will display light-colored or thin line, and when you press the pen tip heavily, the electromagnetic pen will display dark-colored or thick line.

2.4 More touch settings

Windows 7/8 system is equipped with other touch functions. All settings in this chapter are based on this system.

2.4.1 Pen and touch

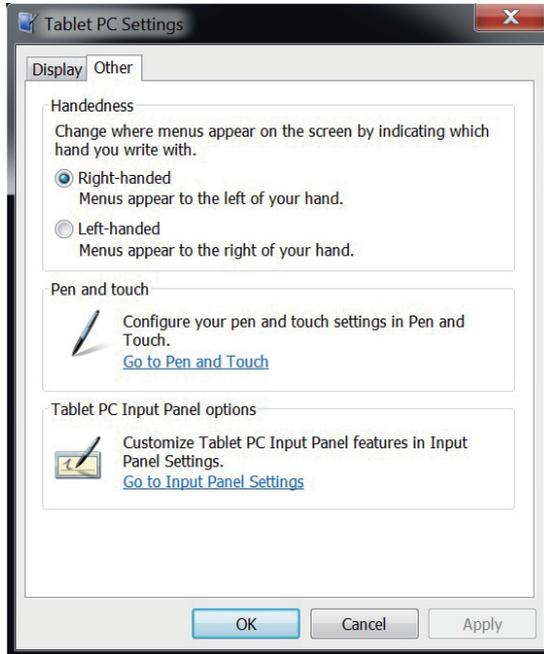
Click [Start] icon → [Control panel] → [Pen and touch].



- Pen option: when operating the items on the screen with electromagnetic pen, you can adjust the action of each electromagnetic pen and the setting of electromagnetic pen button.
- Flicks: using pen gesture can perform the action quickly and easily with electromagnetic pen on the tablet PC.
- Handwriting: you can select [Use automatic learning] or [Don't use automatic learning and delete any previously Collected data].

2.4.2 Tablet PC setting

Click [Start] icon → [Control panel] → [Tablet PC setting] → click [Other] tab → click [Go to input panel setting].



These settings can be used to customize the following input panel functions of tablet PC.

- **Handwriting:** setting of stroke thickness and writing line spacing.
- **Writing-text conversion:** handwriting recognition setting.
- **Text completion:** [Automatic completion] setting and [Predictive text] setting.
- **Advanced:** [Action gesture] setting.

3. Troubleshooting

3.1 Screen problems

Problems	Recommended actions
No picture	<ul style="list-style-type: none">* Check whether USB cables at computer end and screen end are connected properly.* Try to use another USB interface of the computer.* Confirm whether the computer is under sleep mode. Press the keyboard or move the mouse, and reboot the system.* Try to adjust the brightness.* Confirm whether the computer is starting up* In case of laptop, please confirm whether the outer-link (RGB) output is selected.* Check whether DisplayLink driver is installed.
Screen completely dark	<ul style="list-style-type: none">* Long-time operation will decrease backlight efficiency and may affect the screen brightness.
Image noise	<ul style="list-style-type: none">* Other electrical devices may trigger electrical disturbances.
Image blur	<ul style="list-style-type: none">* Using the original resolution of 1280 x 800 may provide the optimum quality.

3.2 Problems of interactive electromagnetic pen

Problems	Recommended actions
Electromagnetic pen does not work	<ul style="list-style-type: none">* Try to confirm by mouse. If the mouse does not work, please reboot the computer or the application.* Try to re-install the driver
Pen tip is too short	<ul style="list-style-type: none">* Please check whether the pen tip is too short. If yes, please replace the pen tip.
Abnormal cursor movement	<ul style="list-style-type: none">* Remove the disturbances caused by adjacent electrical devices.* Try to reboot the computer to confirm.* Confirm both ends of USB cable are connected to PC.

Note: please don't open the enclosure electric shock hazard. For assistance, please contact local technical support center and/or dealer.

4. Product Specification

4.1 Screen

Display

Model	10.1 inch TFT LCD, LED backlight
Resolution	1280 x 800
Brightness	160 cd/m ² (typical) / 200 cd/m ² (max.)
Angle of visibility	Horizontal 170°, vertical 170°
Response time	Tr+Tf: 25ms (typical) / 50ms (max.)

Connector

USB	USB x1
-----	--------

User control

Control key	None
-------------	------

Power supply

Input	DC5V/1A, USB power supply
Power consumption	Start-up 5W, sleep < 1.0W

Body

Equipment dimension	300mm x 185mm x 22mm
Equipment weight	Net weight: 0.85kg, total weight: 1.3 kg

Environment

Temperature range	Operation: 0°C ~ +50°C Storage: -10°C ~ +60°C
Relative humidity	Operation: 20% ~ 80% Storage: 10% ~ 90%

4.2 Interactive electromagnetic pen

Model

Technique	Electromagnetic touch
Action area	Full screen

Technical specifications

Resolution	5080 LPI (lines per inch)
Tracking velocity	250 PPS (dots per second)
Pressure sensing	Class 2048
Accuracy rating	± 0.5mm (center), ± 2mm (edges and corners)
Readable height	5mm

Electromagnetic pen

Model	Pressure sensing, wireless
Inclination of detectable pressure sensitive pen	Inclination range: ± 45°
User control (switch)	NA
Pen tip	Replaceable

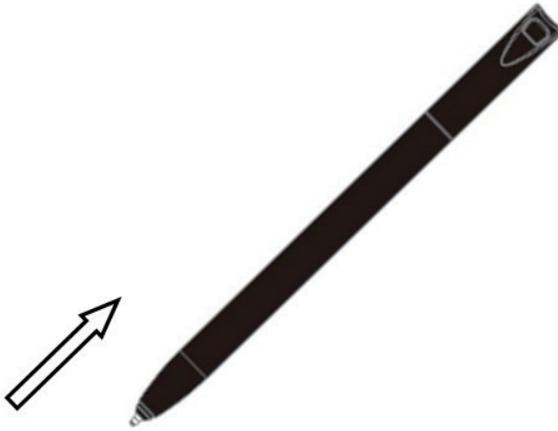
Note: the specification is subject to change without prior notice.

5. Appendix

5.1 Replace the pen tip

If the pen tip is too short or exists the sharp edge, it can be replaced to the back-up tip. Please replace according to the following steps:

- 1) Pull out the pen tip from electromagnetic pen straightly with tool.
- 2) Insert new pen tip into the handwriting pen and then push in the pen tip untill the tip does not move.



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 C = CHAT ONLINE	Email
Australia/New Zealand	www.viewsonic.com.au	AUS= 1800 880 818 NZ= 0800 008 822	service@au.viewsonic.com
Canada	www.viewsonic.com	T= 1-866-463-4775	service.ca@viewsonic.com
Europe	www.viewsoniceurope.com	www.viewsoniceurope.com/uk/support/call-desk/	
Hong Kong	www.hk.viewsonic.com	T= 852 3102 2900	service@hk.viewsonic.com
India	www.in.viewsonic.com	T= 1800 266 0101	service@in.viewsonic.com
Korea	www.kr.viewsonic.com	T= 080 333 2131	service@kr.viewsonic.com
Latin America (Argentina)	www.viewsonic.com/la/	C= http://www.viewsonic.com/la/soporte/servicio-tecnico	soporte@viewsonic.com
Latin America (Chile)	www.viewsonic.com/la/	C= http://www.viewsonic.com/la/soporte/servicio-tecnico	soporte@viewsonic.com
Latin America (Columbia)	www.viewsonic.com/la/	C= http://www.viewsonic.com/la/soporte/servicio-tecnico	soporte@viewsonic.com
Latin America (Mexico)	www.viewsonic.com/la/	C= http://www.viewsonic.com/la/soporte/servicio-tecnico	soporte@viewsonic.com
Nexus Hightech Solutions, Cincinnati #40 Desp. 1 Col. De los Deportes Mexico D.F. Tel: 55) 6547-6454 55)6547-6484 Other places please refer to http://www.viewsonic.com/la/soporte/servicio-tecnico#mexico			
Latin America (Peru)	www.viewsonic.com/la/	C= http://www.viewsonic.com/la/soporte/servicio-tecnico	soporte@viewsonic.com
Macau	www.hk.viewsonic.com	T= 853 2870 0303	service@hk.viewsonic.com
Middle East	ap.viewsonic.com/me/	Contact your reseller	service@ap.viewsonic.com
Puerto Rico & Virgin Islands	www.viewsonic.com	T= 1-800-688-6688 (English) C= http://www.viewsonic.com/la/soporte/servicio-tecnico	service.us@viewsonic.com soporte@viewsonic.com
Singapore/Malaysia/Thailand	www.viewsonic.com.sg	T= 65 6461 6044	service@sg.viewsonic.com
South Africa	ap.viewsonic.com/za/	Contact your reseller	service@ap.viewsonic.com
United States	www.viewsonic.com	T= 1-800-688-6688	service.us@viewsonic.com

Limited Warranty

VIEWSONIC® PEN DISPLAY

What the warranty covers:

ViewSonic warrants its products to be free from defects in material and workmanship, under normal use, 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 like product. Replacement product or parts may include remanufactured or refurbished parts or components.

How long the warranty is effective:

ViewSonic Pen Displays are warranted for 1 year for all parts and labor from the date of the first consumer purchase.

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.
 - b. Any damage of the product due to shipment.
 - c. Removal or installation of the product.
 - d. Causes external to the product, such as electrical power fluctuations or failure.
 - e. Use of supplies or parts not meeting ViewSonic's specifications.
 - f. Normal wear and tear.
 - g. 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 under Support/Warranty Information.



ViewSonic®