



PD1910

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. VS15570

Compliance Information

FCC Compliance Statement

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.

Industry Canada Statement

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

The mark shown to the right is in compliance with the Waste Electrical and Electronic Equipment Directive 2002/96/EC (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.

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 (\leq 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. piezoelectronic devices, or in a glass or ceramic matrix compound.

Copyright Information

Copyright © ViewSonic® Corporation, 2013. 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:

PD1910

ViewSonic Pen Display

Model Number:

VS15570

Document Number:

PD1910_UG_ENG Rev. 1A 07-09-13

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>

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1. Introduction

1.1 Packing List

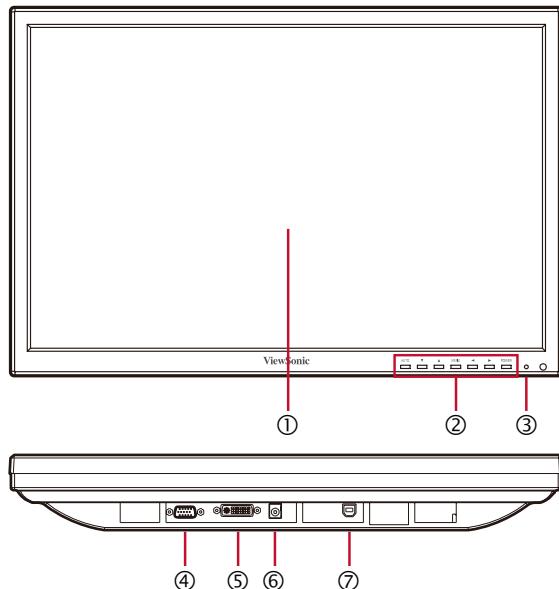
After unpacking, make sure that all of the following contents are included:

- Pen Display
- Power cord
- Power Adapter
- Quick Star Guide
- Driver CD
- VGA cable
- USB cable
- Pen
- Pen holder with including Pen tip
- Warranty card*1 (China only)

If there is a defect or missing part, please contact the agency where you purchased the product.

1.2 Product Overview

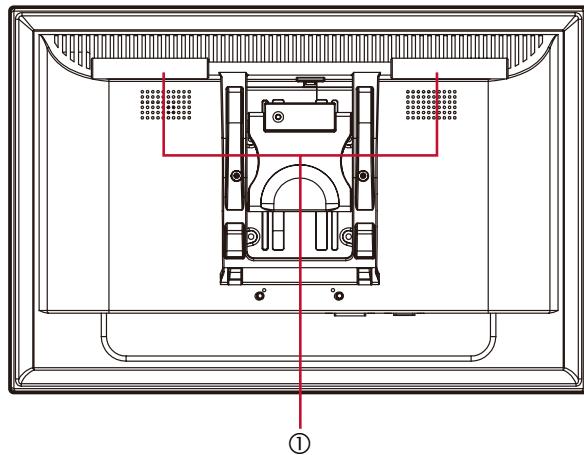
1.2.1 Front and Side View



- ① Display and pen touch area
- ② Control key buttons
- ③ Power indication
- ④ D-Sub

- ⑤ DVI
- ⑥ DC in
- ⑦ USB port

1.2.2 Rear View



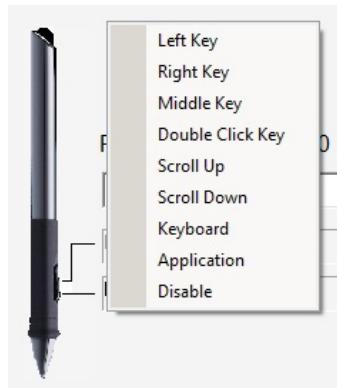
① Stand

Caution: Avoid the risk of electric shock. Do not open the shell by yourself. Please contact maintenance personnel if any problems are encountered.

2. Handwriting on the LCD screen

2.1 Using the Stylus

Use the stylus in the same way that you would use a regular pen, with a few differences. Use your thumb or index finger to control stylus function button. Pressing the button has the same function as a right-button click on a mouse by default. You can choose the button function from the list below in the **Pen Setting** interface.



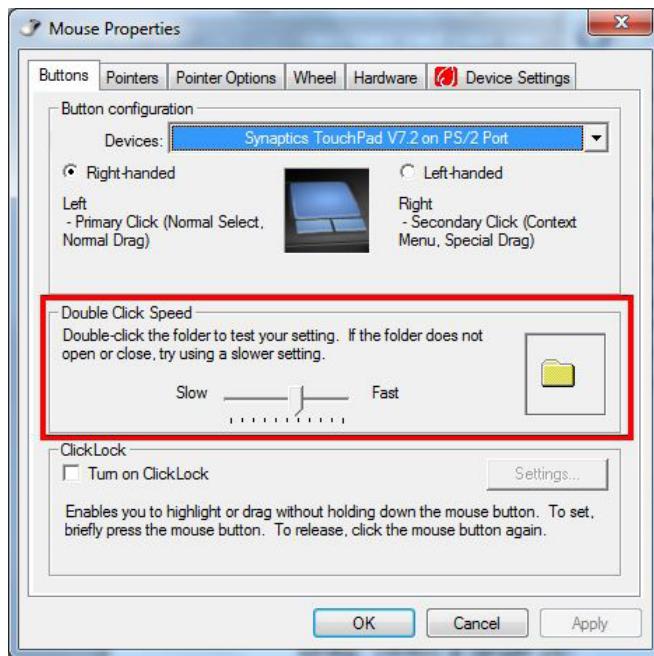
2.2 Controlling the Stylus

Single Tap: Tapping the screen with the stylus produces the same effect as a left-click on a mouse.

Double Tap: By quickly tapping the screen twice produces the same effect as a double left-click on a mouse.

Double-click Technique: After positioning the cursor, quickly double-tap the tip of the stylus on the screen, being careful not to move the position of the pen tip position too much.

If you feel that the double-tap reaction is too slow, you can adjust the mouse double-click speed by going to **Control Panel > Hardware and Sound > Devices and Printers > Mouse > Buttons**.



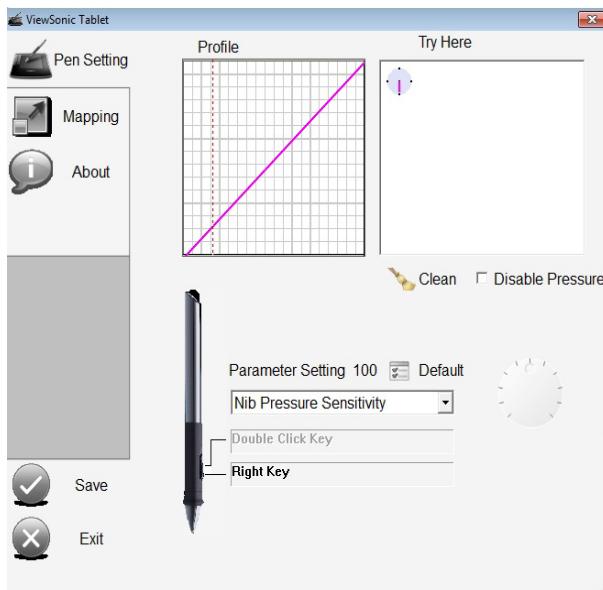
Tap and Drag: Select a target point on the screen and press the stylus tip down. Without lifting the tip, move the pen to drag the target to its new position. Lift the stylus off the screen to complete the action.

2.3 Featured Applications

Pressure Sensor

In the corresponding software, you can control the pen pressure sensitivity, color, thickness and transparency effects of the stylus and handwriting. This allows you to select the custom levels of smoothness, and the precise positioning or random gradient of your written content.

To adjust the stylus' pressure sensitivity, go to the **Pen Setting** interface. Adjust the sensitivity settings to your preferred levels.

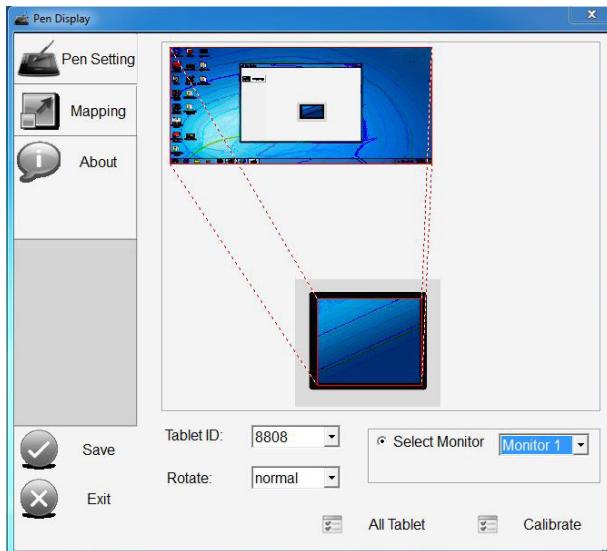


Pen Setting Interface

3. Screen Positioning Settings

3.1 Mapping

To adjust the mapping settings, go to **Start > Pen Display > Pen Display > Mapping**.



Mapping Settings Interface

a. Select a Monitor:

When a PC is connected to two monitors, two options will be displayed (monitor 1 and monitor 2) for you to choose from. Choose the pen display you want to adjust, and then correct the mapping function according to your preferences.

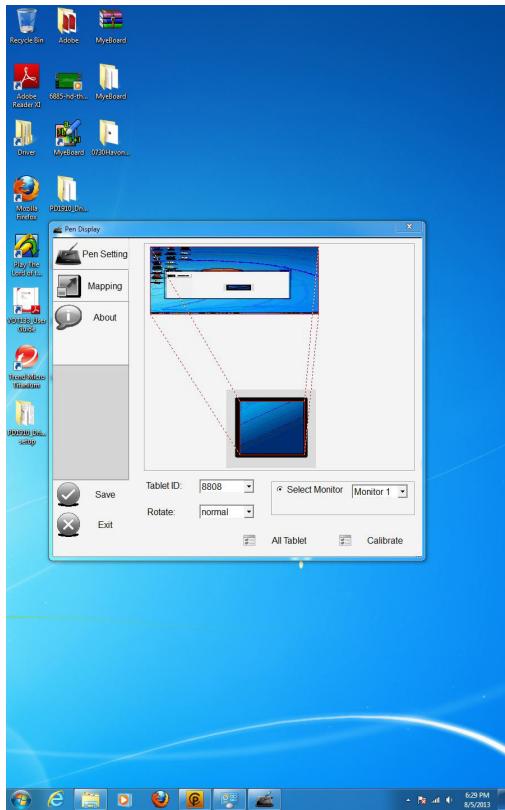
If you are just using the PD1910 alone (without an attached PC monitor), you will not be prompted to choose a screen.

b. Select Rotation:

Follow these steps if you are using a display in the vertical (portrait) position together with your pen display.

1. Set the PD1910 to the **vertical screen display** (Windows OS) setting.
2. For the mapping setting, choose the ‘Rotate’ selection that you want to adjust, and select **countrerclockwise**.

Note: Vertical screen display support for Windows 7 and Windows 8 operating systems (graphics driver support is needed to support Windows XP and Windows Vista operating systems).

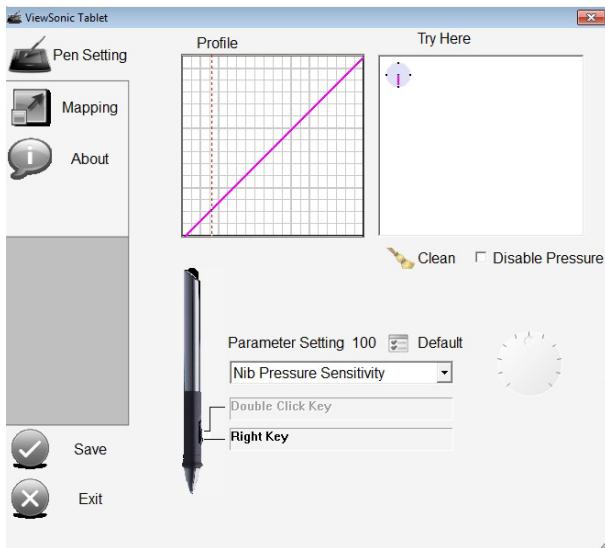


3.2 Pen Settings

Most users can use the default settings. However, for customized needs follow the directions below to adjust the pen pressure sensitivity settings.

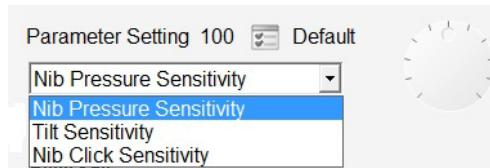
1. Go to Pen Settings

Click on **Pen Display > Pen Settings** in the **Start** menu to make the pop-up settings panel appear:



2. Set the Sensitivity Value

Use the drop-down menu in the figure below to choose the item you want to set. Drag the circular round button around to adjust the corresponding numerical size on the right side of the panel.



3. Save and Exit

Click the **Save** and **Exit** button to save your pen settings and exit the settings screen.

4. System Requirements

System requirements for the handwriting function are as follows:

CPU	Pentium III 1GHz and above
RAM	128MB minimum, over 256MB recommended
Storage	More than 150MB
USB	USB1.1 or 2.0

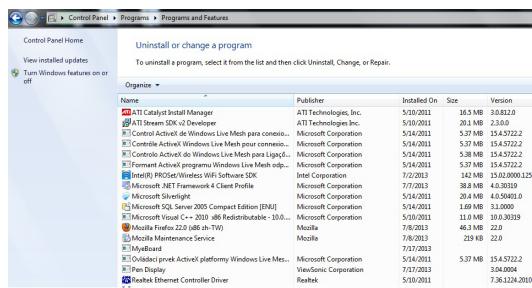
5. Installing the Pen Display Driver

After installing the PD1910 driver upon first use, there may be inconsistencies between the position of the on-screen cursor and stylus. To adjust the mapping function, go to **Start > Pen Display > Pen Display > Mapping**. If there are 2 pen displays attached, first select the pen display that you want to adjust.

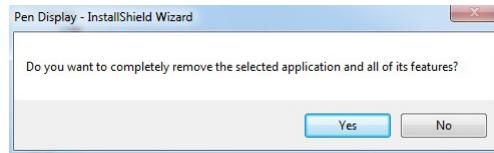
1. Plug the digitizer's USB connector into the computer's USB port.
2. Put the driver CD into the DVD drive or CD-ROM.
3. Go to the CD-ROM disc directory, open the Drivers directory, double-click on setup.exe to start running the screen handwriting driver installer.

6. Uninstalling the Pen Display Driver

1. Click **Start**, and then select **Control Panel**.
2. In **Control Panel**, click on **Programs > Uninstall a Program > Pen Display**.



3. Click **Uninstall**.
4. Confirm that you want to uninstall the program, and then click **OK** to perform the uninstallation.



5. Wait while the program uninstalls.
6. Uninstallation is complete. Click **Finish** to restart your computer.

7. Troubleshooting

7.1 Monitor problems

Problems	Suggested action
No picture	<ul style="list-style-type: none">* Make sure the VGA cable between your PC and Pen Display is well-connected.* Check that the computer is switched on.* Check if your PC is in sleep mode. Tap the keyboard or move the mouse to reactivate the system.* Press the Pen Display's power button to make sure it is turned on.* Try adjusting the brightness.* If using a laptop PC, check that the external (RGB) output is selected.
Dark screen	<ul style="list-style-type: none">* Adjust the brightness control.* Backlight degradation after being used for a long period may cause lower screen brightness.
Picture noise	<ul style="list-style-type: none">* Other electrical devices may cause electrical interference.
Picture is fuzzy	<ul style="list-style-type: none">* Optimal picture quality is at native 1440 x 900 resolution.

7.2 Interactive Pen Problems

Problems	Suggested action
The pen is no function	<ul style="list-style-type: none">* Try using mouse to double check, if mouse also no function, please restarting your computer or your application.* Try to reinstall the driver.
Pen tip is too short	<ul style="list-style-type: none">* Check whether the pen tip is too short. If yes, replace the pen nib.
The cursor move incorrectly	<ul style="list-style-type: none">* Eliminate interference from nearby electrical devices.* Try restarting your computer for double check.* Make sure the two-end side of USB cable is connected to PC simultaneously.

Caution: Avoid the risk of electric shock. Do not open the shell by yourself. Please contact the local technical support and/or agency where you purchased the product, if you need further support.

8. Cleaning the Pen Display

MAKE SURE THE PEN DISPLAY IS TURNED OFF.

NEVER SPRAY OR POUR ANY LIQUID DIRECTLY ONTO THE SCREEN OR CASE.

To clean the screen:

1. Wipe the screen with a clean, soft, lint-free cloth. This removes dust and other particles.
2. If the screen still not clean, apply a small amount of non-ammonia, non-alcohol based glass cleaner onto a clean, soft, lint-free cloth, and wipe the screen.

To clean the case:

1. Use a soft, dry cloth.

Disclaimer

ViewSonic® does not recommend the use of any ammonia or alcohol-based cleaners on the pen display screen or case. Some chemical cleaners have been reported to damage the screen and/or case of the pen display.

ViewSonic will not be liable for damage resulting from use of any ammonia or alcoholbased cleaners.

9. Product Specification

Electromagnetic Pen	Type	Electromagnetic resonance
	Power Supply	Battery-less
	Resolution	5080LPI
	Pressure Level	2048
	Tracking Speed	220PPS
LCD	Type	TFT (Thin Film Transistor), 1440 x 900 LCD, 0.283 mm pixel pitch
	Display Size	Metric: 48.3 cm Imperial: 19" (19" viewable)
	Color Filter	RGB vertical stripe
	Glass Surface	Anti-Glare
D-SUB Input Signal	Video Sync	RGB analog (0.7/1.0 Vp-p, 75 ohms) Separate Sync f_h :30.5-81 kHz, f_v :55-75 Hz
Resolution*	Recommended	1440 x 900 @ 60 Hz
	Supported	1440 x 900 @ 60, 75 Hz 1280 x 1024 @ 60, 75 Hz 1280 x 960 @ 60, 75 Hz 1280 x 800 @ 60, 75 Hz 1280 x 720 @ 60 Hz 1152 x 864 @ 75 Hz 1024 x 768 @ 60, 70, 75 Hz 832 x 624 @ 75 Hz 800 x 600 @ 56, 60, 72, 75 Hz 720 x 400 @ 70 Hz 640 x 480 @ 60, 67, 72, 75 Hz
I/O interfaces		Power input x 1, D-sub signal input x 1, USB port 2.0 x 1, DVI signal input x 1
Power	Voltage	DC Power In: DC +12V, 3.0A External Power Adapter: AC 100-240V, 50/60 Hz, 1.0A
Display area	Full Scan	408.24 mm (H) x 255.15 mm (V) 16.07" (H) x 10.04" (V)
Operating conditions	Temperature	+32°F to +104°F (0°C to +40°C)
	Humidity	80% (Max), non-condensation

Storage conditions	Temperature Humidity	-4°F to +140°F (-20°C to +60°C) 80% (Max), non-condensation
Dimensions	Physical	441.6 mm (W) x 294 mm (H) x 250.8 mm (D) 17.4" (W) x 11.6" (H) x 9.87" (D)
Wall Mount	Distance	100 x 100 mm

* Do not set the graphics card in your computer to exceed these timing mode; doing so may result in permanent damage to the pen display.

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	www.viewsonic.com.au	AUS= 1800 880 818 NZ= 0800 008 822	service@au.viewsonic.com
Canada	www.viewsonic.com	T (Toll-Free)= 1-866-463-4775 T (Toll)= 1-424-233-2533 F= 1-909-468-3757	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/	T= 0800-4441185	soporte@viewsonic.com
Latin America (Chile)	www.viewsonic.com/la/	T= 1230-020-7975	soporte@viewsonic.com
Latin America (Columbia)	www.viewsonic.com/la/	T= 01800-9-157235	soporte@viewsonic.com
Latin America (Mexico)	www.viewsonic.com/la/	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 http://www.viewsonic.com/la/soporte/index.htm#Mexico			
Latin America (Peru)	www.viewsonic.com/la/	T= 0800-54565	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) T= 1-866-379-1304 (Spanish) F= 1-909-468-3757	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 (Toll-Free)= 1-800-688-6688 T (Toll)= 1-424-233-2530 F= 1-909-468-3757	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®