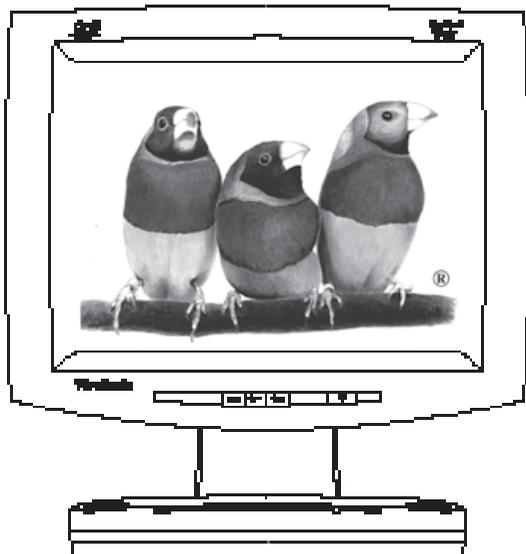


ViewSonic®

VP181



With Landscape & Portrait Display Modes
Full 18.1" Diagonal Viewable Screen

ViewPanel®

User's Guide

Guide de l'utilisateur

Bedienungsanleitung

(Latin American Spanish)

(Italian)

(Brazilian Portuguese)

(Swedish)

(Russian)

(Polish)

(Japanese)

(Traditional Chinese - Taiwan)

(Simplified Chinese - China)

(Korean)

(Arabic)

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As an ENERGY STAR® partner, ViewSonic Corp. has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

Electronic Warranty Registration

Register your ViewPanel® at www.viewsonic.com. It's fast, easy, and will simplify future support needs.

For your records

The serial number of this product is on the back of the ViewPanel. Write the serial number in the space below and keep this guide as a permanent record of your purchase to aid in identification in the event of theft or loss.

Product Name:	ViewSonic VP181 ViewPanel
Model Number:	VLCDS21535-1
Serial Number:	_____
Purchase Date:	_____

Power Cord Safety Guidelines

Caution : Use a power cable that is properly grounded. Always use the AC cords listed below for each area :

- USAUL
- CanadaCSA
- GermanyVDE
- SwitzerlandSEV
- BritainBASEC/BS
- JapanElectric Appliance Control Act

In other areas, use AC cord which meets local safety standards.

Important Safety Instructions

- 1 Read these instructions thoroughly.
- 2 Follow all warnings and instructions marked on this product.
- 3 Unplug the product from the wall outlet before cleaning. See the *Cleaning the ViewPanel®* on page 18.
- 4 Do not use the product near water. Never spill liquid of any kind on the product.
- 5 Do not place the product on an unstable cart, stand, or table. Doing so may cause the product to fall, which can seriously damage it.
- 6 Slots and openings in the cabinet are provided for ventilation. To ensure reliable operation, never block these ventilation slots by placing the product on a bed, sofa, rug, or similar surface. This product should never be placed near or over a radiator or heat register; or installed in any enclosure that prevents proper ventilation.
- 7 Make sure the power source complies with the power recommendation printed on the back of the product. If you are not sure of the type of power provided by the wall socket, consult your dealer or local power company.
- 8 Do not place any object on the power cord. Do not place this product where persons could walk on the power cord.
- 9 If you use an extension cord with this product, make sure the total ampere rating of the product(s) plugged into the extension cord does not exceed the ampere rating of the extension cord.
- 10 Never push objects of any kind through the ventilation slots at the back of the product. To do so could risk fire or electric shock.
- 11 Do not attempt to service this product yourself. Opening or removing covers may expose you to dangerous voltage that could cause fire or electric shock. Refer all servicing needs to authorized service personnel.
- 12 Unplug this product from the wall outlet and contact authorized service personnel under the following conditions:
 - a) When the power cord or plug is damaged or frayed.
 - b) If a liquid has been spilled into or on the product, including rain.
 - c) If the product does not operate normally when operating instructions are followed. Only adjust those controls that are covered by the operating instructions, since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
 - d) If the product has been dropped or the cabinet has been damaged.
 - e) If the product exhibits a distinct change in performance, indicating a need for service.

FCC Information

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 unacceptable 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 your dealer or an experienced radio/TV technician for help.

FCC Warning:

To assure continued FCC compliance, the user must use the provided grounded power supply cord and the shielded video interface cable with bonded ferrite cores. Also, any unauthorized changes or modifications to this ViewPanel would void the user's authority to operate this device.

Department of Industry Canada (IC) Compliance Notice

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

DOC avis de conformation

Cet appareil est bien conforme à la directive communautaire No 82/499/CEE.



CE Certification

This device complies with the requirements of the EEC directive 89/336/EEC with regard to "Electromagnetic compatibility."

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*To meet your future needs, and to receive any additional product information as it becomes available, please register your ViewPanel's warranty on the Internet at: <http://www.viewsonic.com>.

Getting Started

Congratulations on your purchase of a **ViewSonic VP181** ViewPanel®. You have selected one of the most versatile display devices in the PC industry. The VP181 can interface with virtually any analog *or* digital source. It includes support for composite video devices (e.g., VCR, DVD, video camera), USB devices, multiple audio sources, and external microphones. It can operate in landscape or portrait orientation, and can tilt, swivel and operate in a desk mount or wall mount configuration.

Important! *Save the original box and all packing material for future shipping needs.*

The word "Windows®" in this user guide refers to the following Microsoft® operating systems: Windows '95, Windows '98, Windows NT® (4.0).

Precautions

- Sit at least 18" from the ViewPanel®.
- **DO NOT APPLY PRESSURE TO THE SCREEN.** The LCD screen is very delicate.
- **DO NOT TOUCH THE SCREEN DIRECTLY WITH YOUR FINGERS.** You may damage the screen, and oil from your skin is difficult to remove.
- Avoid exposing the ViewPanel to direct sunlight or other heat source. The ViewPanel should be facing away from direct sunlight to reduce glare.
- Choose a well ventilated area to position your ViewPanel to allow adequate dissipation of heat. Do not place anything on top of the ViewPanel.
- Ensure the area around the ViewPanel is clean and moisture-free.
- If smoke, abnormal noise, or strange odor is present, immediately switch the ViewPanel off and call your dealer. It is dangerous to continue using the ViewPanel.
- Never remove the rear cover. The display unit contains high-voltage parts. You may suffer electric shock if you touch these parts.
- Always handle your ViewPanel with care when moving it.

Package Contents

- **ViewSonic VP181ViewPanel**

- **DC Power supply**

Power cables connect to DC Power supply. The DC Power supply connects to DC IN port on base.

- **Detachable video cable (15 pin HD D-sub)**

Required to receive Analog RGB video signal from PC

- **Power cord/USA type**

Connects wall outlet to DC Power supply

- **Power cord/SCHUKO type for**

wer sup Tc . /F1 1 Tf1 Tw (P)9.1(w)15.d 43ct(o)Twhead.33 TD- . 4 Tc .

Installation (Desk Mount)

A desk installation allows for an analog data (CPU) connection, composite video connection (VCR, camera, etc.), audio connection, and a USB connection. The steps for a desk installation of the VP181 are presented on pages 7 and 8.

1 Connect power cord

Connect the small DC power cord from the base of the ViewPanel® to the head.

NOTE: for first time installation, this step will be completed by the factory.

2 Connect DFP cord

Connect the digital flat panel (DFP) cord from the base of the ViewPanel to the head.

3 Connect DC power supply

Connect the cord from the DC Power Supply to a properly grounded AC outlet using the proper cord adapter for your region.

4 Connect DC power to ViewPanel

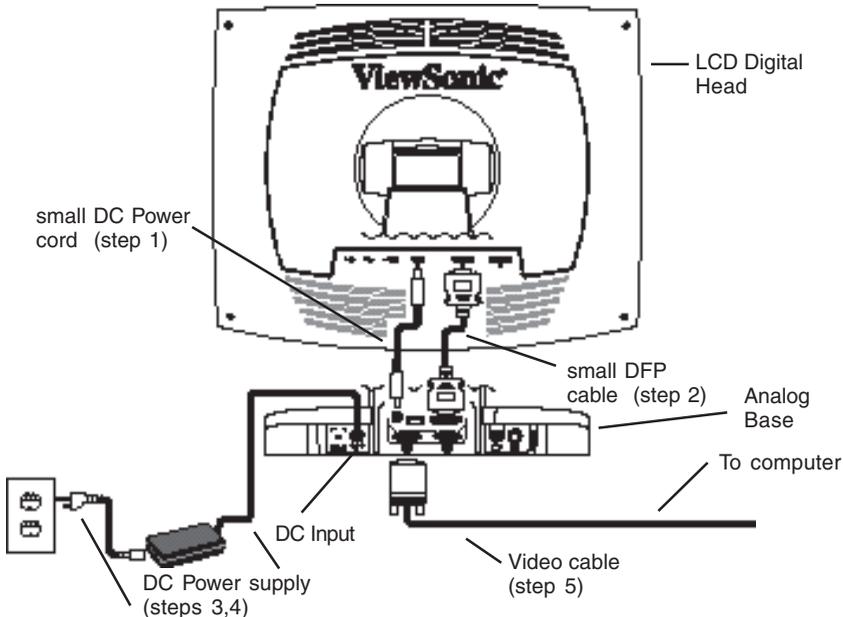
Connect the cord from the DC Power Supply to the DC input on the rear left side of the base.

5a Connect video cable

PC users: Connect the video cable from the back of the computer to the back of the ViewPanel base as shown below.

5b Connect video cable

Macintosh® users: Connect the video cable to the computer using a Macintosh adapter, if required. Adapter is included with the VP181.



Installation-Wall Mount

A wall installation includes a digital data connection (CPU) and a USB connection (optional). The VP181 is compatible with the VESA wall mounting standard. For information concerning how to obtain a wall mounting kit, contact ViewSonic® or your local dealer.

To convert the desk-mounted VP181 to a wall-mount installation, do the following:

1 Disconnect DC power

Disconnect the DC power supply from the base of the ViewPanel (see steps 3 and 4, page 6) and connect to the ViewPanel head (see step 1 in figure below).

2 Raise ViewPanel to maximum height

3 Remove plastic cap cover

Remove the plastic cap cover at the top of the VP181 neck.

4 Remove plastic cover from back of ViewPanel head

Remove the circular-shaped plastic cover from the back of the ViewPanel head exposing the mounting screws.

5 Disconnect panel from neck

Disconnect the panel from the neck by removing the four screws on the back of the ViewPanel.

6 USB Installation (optional)

- Remove the USB cable connecting the base to the head (see step 1, USB Installation, page 8).
- Connect the USB cable from the computer to the USB IN port on head of the ViewPanel.

7 Disconnect DFP cable from base

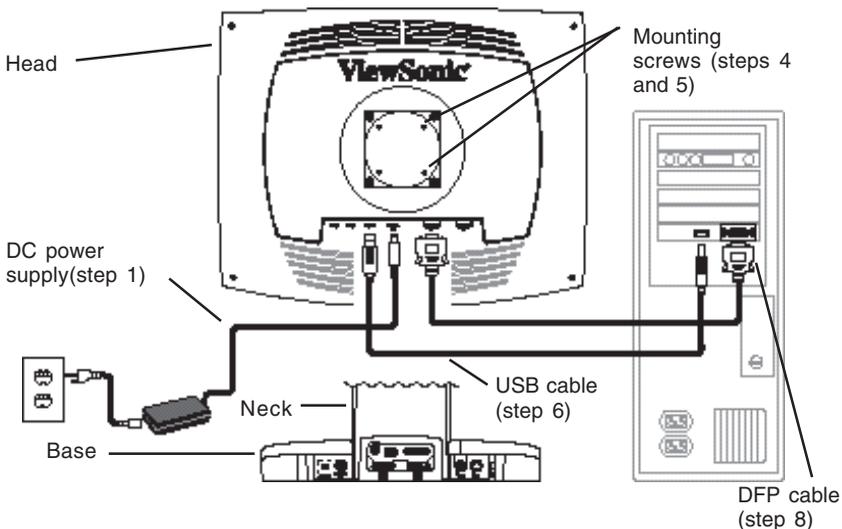
Disconnect the short digital flat panel (DFP) cable that connects the base of the ViewPanel to the head (see step 2, page 7).

8 Connect DFP cable from computer

Connect the digital flat panel (DFP) cable from the computer to the head of the ViewPanel.

9 Attach ViewPanel to wall kit

Mount the ViewPanel head on the wall using a VESA-compliant wall mount. **NOTE:** To order a wall mounting kit, contact ViewSonic.



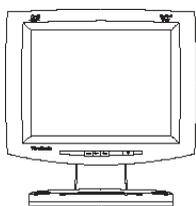
Operation

To turn the **ViewSonic VP181 ViewPanel®** on, press the power switch on the front of the ViewPanel ON (see page 7), **THEN** turn on your computer. The power light on the VP181 will then turn green indicating the ViewPanel is ready to use. To turn the ViewPanel off, set the power switch OFF. The power light will extinguish.

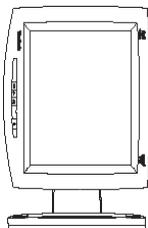
To start, follow the instructions for Landscape/Portrait Mode, or begin using the control buttons shown below and on page 11.

Landscape/Portrait Modes*

The **VP181** ViewPanel can operate in either Landscape or Portrait mode (see below).



Landscape

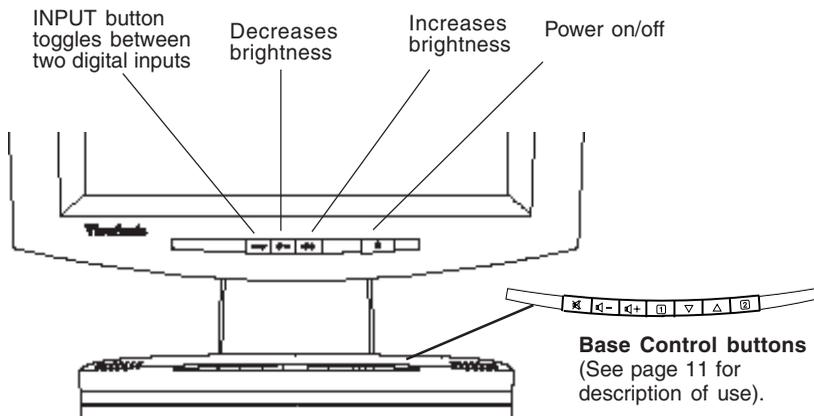


Portrait

NOTE: Before using the portrait display mode, you must first install the PerfectPortrait™ software included with your VP181 ViewPanel. Follow the instructions that accompany the PerfectPortrait software.

To switch from Landscape (default) to Portrait modes, do the following: (1) Face front of ViewPanel. (2) Pull bottom of ViewPanel toward you to tilt bottom away from base. (3) After tilting ViewPanel, manually rotate the VP181 clockwise 90°.

To switch from Portrait to Landscape mode, follow steps 1 - 3 above, but manually rotate the **VP181** panel *counter-clockwise* 90°.



*PerfectPortrait software is compatible with most PCI and AGP graphics (video) cards. For information on compatible graphics cards and approved hardware configurations, go to the ViewSonic website, <http://www.viewsonic.com>, and select the following path: Customer support > Support options > Document area > PPCHART.XLS. The PPCHART.XLS spreadsheet will provide information on compatibility with your graphics card.

To save chan

View[®] Main

Following steps show
each **Submenu**. De
Main menu shown
to an analog sou
panel head (see page

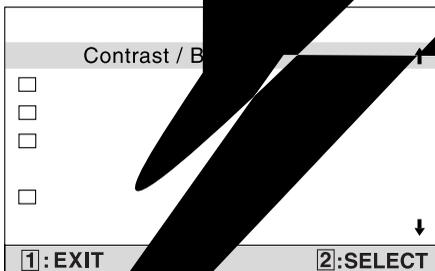
Control buttons

Button  mutes the audio



Button
reduce
volume

- 1 Press the [1] button to
- 2 Press the [▼] or [▲] button to select menu option.
- 3 Press the [2] button to
- 4 Press the [▼] or [▲] button to select option.
- 5 After making adjustm screen. Press the [1] button to save chan



Contrast adjusts foreground white level of screen image.

[▲] increases contrast, [▼] decreases contrast.

Shortcut: Before displaying the OnView menu, press the [▼] or [▲] button to adjust.

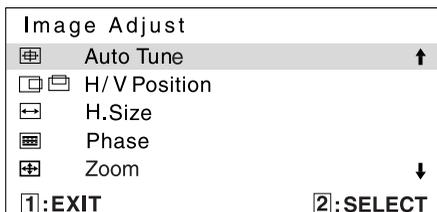
Press button [2] to toggle between brightness and contrast.

Brightness adjusts background black level of screen image.

[▲] increases brightness, [▼] decreases brightness.

To save changes and exit Main Menu, press the [1] button

Image Adjust Menu



Auto Tune automatically sizes, centers, and fine tunes the video signal to eliminate waviness and distortion. Press the [2] button to obtain a sharper image.

NOTE: Auto tune works with most common video cards. If using this function does not work on your ViewPanel®, lower the video refresh rate to 60 Hz and try again (See computer or graphic card user guide to adjust refresh rate.) The panel may be manually tuned using the horizontal and vertical phase controls shown below.



H/V Position Press the [2] button to select H. or V. Position

Horizontal Position moves screen image left or right.

[▼] moves screen image to *left*, [▲] moves screen image to *right*.

Press the [2] button to toggle between H. or V. Position.

Vertical Position moves screen image up or down.

[▼] moves screen image *down*, [▲] moves screen image *up*.



Horizontal Size adjusts the width of screen image. [▼] decreases width of screen image, [▲] increases width of image.

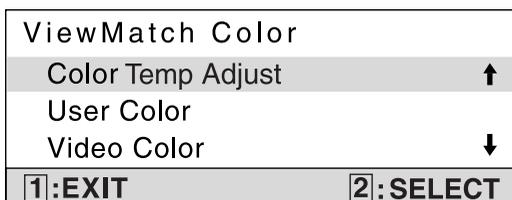


Phase fine tunes the video distortion. Press [▼] or [▲] to adjust to user preference.



Zoom magnifies the displayed image. Press the [2] button to change the center of magnification. Press [▼] and [▲] at the same time to restore magnification to original (unmagnified) condition.

Viewmatch® Color Menu



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] dir... the...
to th...

To save changes and exit Main Menu, press the [1] button

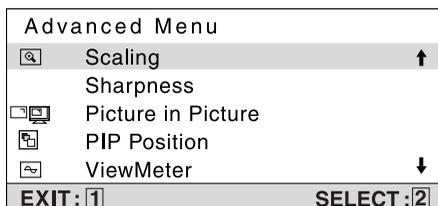
Bass/Treble adjusts the high (treble) and low (bass) frequency audio output.

Press [▼] or [▲] to adjust treble.

Press [2] button to select bass adjustment.

Press [▼] or [▲] to adjust bass.

Advanced Menu



Scaling adjusts the video input signal to the screen size using the following options. Press [▼] or [▲] to select from the following options:

1:1 adjusts the video signal so that the height and width of the picture are the same.

Fill all adjusts the video signal to fill the screen.

Fill Aspect Ratio maintains the correct video signal proportions for different resolutions.

Sharpness adjusts the clarity of a non-SXGA (1280 x 1024) RGB signal. Press [▼] or [▲] to adjust.

NOTE: Sharpness control option is only available with non-SXGA resolutions.



Picture in Picture allows the user to review a composite video signal within the primary screen image.

Press [▼] or [▲] to adjust the size of the picture from the following options: Small, Medium, or Large.



PIP Position allows the user to place the Picture-in-Picture window anywhere on the screen. Press [▼] or [▲] to select from the following options:

H. Adj moves the second video signal horizontally.

[▼] moves second signal to left, [▲] moves second signal to right.

V. Adj moves the second video signal vertically.

[▼] moves second signal down, [▲] moves second signal up.



ViewMeter® displays information regarding the current input signal coming from the graphics card in your computer.

NOTE: See your graphics card user guide for more information about changing the resolution and refresh rate.

To save changes and exit Main Menu, press the [1] button

Setup Menu

Setup Menu	
 Input Select	↑
 Language Select	
 OSD Position	
 OSD Timeout	↓
[1]:EXIT	[2]:SELECT



Input Select allows the user to select the current signal from the following choices: two analog RGB (15 pin) inputs, or a composite video input. Press [▼] or [▲] to select from video A, B, or composite input.



Language Select allows the user to choose from available languages.



OSD Position Press the [▼] or [▲] button to select the horizontal or vertical OSD position

Horizontal OSD Position horizontally repositions all On-Screen-Display (OSD) screens. [▼] moves OSD left, [▲] moves the OSD right.

Vertical OSD Position vertically repositions all On-Screen-Display (OSD) screens. [▼] moves OSD down, [▲] moves the OSD up.



OSDTimeout sets the length of time the OnScreen Display screen is displayed before exiting.



Memory Recall

Returns the adjustments back to factory settings (only if the ViewPanel® is operating in a factory preset mode.)

Press the [2] button to select the Memory Recall menu option.

Other Information

Specifications

LCD	Type	18.1" (diagonal viewable) SXGA Active Matrix TFT Panel, 0.2805mm pixel pitch	
	Color Filter	RGB, vertical stripe	
	Glass surface	Anti-glare & hard coating	
Input Signal	Video	RGB Analog (0.7 - 1.0 Vp-p, 75 ohms) H/V Separated (TTL), Composite, Sync-on-Green f_h : 30-95 kHz, f_v : 50-75 Hz	
	DVI by	Video	Digital VESA® Digital Video (DFP compliant), adapter Composite video: NTSC, PAL, SECAM, HDTV
Compatibility	Recommended PC	1280 x 1024 @ 60 Hz Up to 1600 x 1200	
	Macintosh® User Modes:	Power Macintosh® (up to 1280 x 1024) 10 (Programmable)	
Power	Voltage	90-264 VAC 50/60 Hz	
	Consumption	80 Watts (Maximum)	
Audio	Freq Response	350 Hz-20 kHz	
Operating Conditions	Temperature	32°F to 104°F (0°C to 40°C)	
	Humidity	10% to 90% (no condensation)	
	Altitude	To 10,000 feet	
Storage Conditions	Temperature	-4°F to +140°F (-20°C to +60°C)	
	Humidity	10% to 90% (no condensation)	
	Altitude	To 40,000 feet	
Dimensions	Physical	445 mm (W) x 459 mm (H) x 239 mm (D) 17.5" (W) x 18.1" (H) x 9.4" (D)	
Weight	Net	8.5 kgs (18.7 lbs)	
Regulations		UL, CSA, FCC-B, DOC-B, CE, MPRII TCO99, TUV/GS, NEMKO, DEMKO, SEMKO, FIMKO, VCCI, BCIQ, C-Tick, CB, DHHS, EPA, PCT, CCIB	
Power savings* LED modes	<i>On</i>	green	80W (typical)
	<i>Stand By</i>	orange	<15W
	<i>Suspend</i>	orange	<15W
	<i>Off</i>	orange	<5W

Warning: Do not set the graphics card in your computer to exceed these maximum refresh rates. Doing so may result in permanent damage to the monitor. NI= Non Interlaced.

Troubleshooting

No power

- Make sure A/C power cord is securely connected to the DC power supply and the power supply is firmly connected to the ViewPanel.
- Plug another electrical device (like a radio) into the power outlet to verify that the outlet is supplying proper voltage.
- Make sure all short cables are installed see Installation section pg 7.

Power on but no screen image

- Make sure the video cable supplied with the ViewPanel is tightly secured to the video output port on the back of the computer. If the other end of the video cable is not attached permanently to the ViewPanel, tightly secure it to the ViewPanel.
- Adjust brightness.

Wrong or abnormal colors

- If any colors (red, green, or blue) are missing, check the video cable to make sure it is securely connected. Loose or broken pins in the cable connector could cause an improper connection.
- Connect the ViewPanel to another computer.
- Check ViewMatch® color menu for proper settings

Entire screen image scrolls (rolls) vertically

- Make sure video input signals are within the ViewPanel's specified frequency range.
- Try the ViewPanel® with another power source, graphics card, or computer system.
- Connect the video cable securely.

Control buttons do not work

- Press only one button at a time.

Cleaning the ViewPanel®

- DO NOT APPLY PRESSURE TO THE SCREEN.
- NEVER POUR OR SPRAY ANY LIQUID DIRECTLY ONTO THE SCREEN OR CASE OF THE VIEWPANEL.

To clean the screen:

- 1 Gently wipe the screen with a clean camel hair lens brush, or a soft, clean, lint-free cloth. This removes dust and other particles that can scratch the screen.
- 2 If still not clean, blow on the screen and gently wipe with a soft, clean, lint-free cloth.

DISCLAIMER

ViewSonic® does not recommend the use of any liquid cleaners on the ViewPanel screen or case. Chemical cleaners have been reported to damage the screen and/or case of the ViewPanel. Further, ViewSonic does not recommend applying pressure when wiping the ViewPanel screen clean. ViewSonic will not be liable for damage resulting from use of liquid cleaners or resulting from applying pressure to the screen.

LIMITED WARRANTY

VIEWSONIC VP181 VIEWPANEL®

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 like product. Replacement product or parts may include remanufactured or refurbished parts or components.

How long the warranty is effective:

The **ViewSonic VP181** ViewPanel is warranted for three (3) years for all parts, and three (3) years for all labor.

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. Repair or attempted repair by anyone not authorized by **ViewSonic**.
 - c. Any damage of the product due to shipment.
 - d. Removal or installation of the product.
 - e. Causes external to the product, such as electric power fluctuations or failure.
 - f. Use of supplies or parts not meeting **ViewSonic's** specifications.
 - g. Normal wear and tear.
 - h. Any other cause which does not relate to a product defect.
3. Removal, installation, and set-up service charges.

How to get service:

1. For information about receiving service under warranty, contact **ViewSonic** Customer Support. See the back cover of this user's guide. You will need to provide your monitor's serial number.
2. To obtain service under warranty, 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 prepaid in the original container to **ViewSonic** or a service center authorized by **ViewSonic**.
4. For additional information or the name of the nearest **ViewSonic** service center, contact your **ViewSonic** dealer or **ViewSonic**.

Limitation of implied warranties:

THERE ARE NOWARRANTIES, EXPRESSED 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.

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.:

For **ViewSonic** products sold outside of the U.S.A., contact your **ViewSonic** dealer for warranty information and service.

REV 7/16/98

NOTES

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Customer Service

To receive the most prompt assistance, dial the appropriate number below and *listen to all menu options before making your selection*: Customer Support, Technical Support, Parts, etc.

U.S. and Canada only

1-800-688-6688

From outside U.S. and Canada

909-869-7976

From Europe

44 (1293) 643-900

From Asian/Pacific Rim countries

886 (22) 248-4072

Other Options

Technical Support Questions

vstech@viewsonic.com

Product or Dealer Questions

prodinfo@viewsonic.com

World Wide Web:

<http://www.viewsonic.com>

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