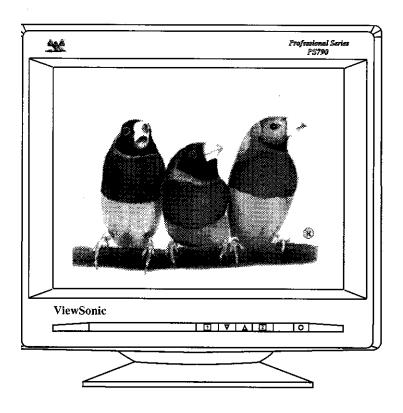
ViewSonic®



with Plug & Play 1 19" (18.0" Viewable Diagonal)

VCDTS21420-1M/1E/1A

PS790 Color Monitor

User's Guide

Guide de l'utilisateur

Bedienungsanleitung

Manual de Instrucciones

Guida utente

Guia do usuário

Användarhandbok

Руководство для пользователя

ユーザース・ガイド

用戶手册

用户指南

사용자 설명서

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As an Energy Star® partner, ViewSonic Corp. has determinded that this product meets the Energy Star® guidelines for energy efficiency.

For Your Records

The serial number of this product is on the back of the monitor. You should note the serial number of this unit in the space provided and retain this booklet as a permanent record of your purchase to aid in identification in the event of theft or loss.

Product Name: ViewSonic PS790

Model Number: VCDTS21420-1M/1E/1A

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:

Britain BASEC/BS

Japan Electric Appliance Control Act

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

Power Cord Safety Guidelines (continued)

AC PLUG CORD PRECAUTIONS FOR THE UNITED KINGDOM

FOR YOUR SAFETY PLEASE READTHE FOLLOWING TEXT CAREFULLY.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLETTHEN THE PLUG SHOULD BE CUT OFF AND DISPOSED OF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO AN APPROPRIATE SOCKET.

If a new plug is to be fitted, please observe the wiring code as shown below.

If in any doubt, please consult a qualified electrician.

WARNING: THIS APPLIANCE MUST BE EARTHED.

IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

Green-and-Yellow: Earth Blue: Neutral Brown: Live

If the coloured wires of the mains lead of this appliance do not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the Earth symbol $\frac{1}{2}$ or coloured GREEN or GREEN-AND-YELLOW.

The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

IMPORTANT NOTICE CONCERNING POWER CORD SELECTION

The power cord for this unit has been packed separately and has been selected according to the country of destination and must be used to prevent electric shock. Use the following guidelines if it is necessary to replace the original cord set.

The female receptacle of the cord set must meet CEE-22 requirements and will look like Figure 1 below:

For the United States and Canada

In the United States and Canada the male plug is a NEMA5-15 style (Figure 2) and is UL Listed and CSA Labelled. For units which are mounted on a desk or table, type SVT or SJT cord sets may be used. For units which sit on the floor, only SJT type cord sets may be used. The cord set must be selected according to the current rating for your unit. Please consult Table A below for the selection criteria for power cords used in the United States and Canada.

Figure 2

For European Countries

In Europe you must use a cord set which is appropriate for the receptacles in your country. The cord set is HAR-Certified, and a special mark that will appear on the outer sheath, or on the insulation of one of the inner conductors.

If you have any questions concerning which proper power cord to use, please consult with the dealer from whom you purchased your monitor.

Table A

Cord Type	Size of Conductors In Cord	Maximum Current Rating of Unit
SJT	18AWG 16AWG 14AWG	10Amps 12Amps 12Amps
SVT	18AWG 17AWG	10Amps 12Amps

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 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.

FCC Warning:

To assure continued FCC compliance, the user must use grounded power supply cord and the provided shielded video interface cable with bonded ferrite cores. If BNC cable is going to be used, use only shielded BNC(5) cable. Also, any unauthorized changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

Power Supply Cord USA

For units with 100 - 120V input voltage in the USA, use the following:

UL Listed and CSA Certified Type SVT or SJT No. 18/3 AWG rated 125Vac 7 A min.

One end terminated in a molded on parallel blade, grounding attachment cap or hooded attachment cap (15A, 125V configuration), other end terminated in a mold-on appliance coupler.

Notice for Germany

For ergonomic reasons, we recommend that you do not display blue characters on a dark background. Doing so may produce insufficient contrast that could lead to eye strain.

Notice for Japan

This equipment falls under the class B information Technology Equipment based on the standard established by the self-imposed Control Council for Radio interference through information-processing Equipment (VCCI). This equipment is designed to be used in a household environment, However, if it is used near radio and television receiver units, radio disturbances can occur. Use this equipment appropriately according to the instruction manual.

CE Conformity



The device complies with the requirements of the EEC directive 89/336/EEC as amended by 92/31/EEC and 93/68/EEC Art.5 with regard to "Electromagnetic compatibility", and 73/23/EEC as amended by 93/68/EEC Art. 13 with regard to "safety".

Required item	Relative to Standard Value	Relative to those Exceeding Standard Value	Remarks
EMI*	# 1		# 4
ESD*	# 2	#3	
RADIATED RF*	# 1	#3	
TRANSIENT F/B*	# 1	#3	
LINE HARMONICS	# 1		

- # 1: Satisfies the standards with no problems in performance and reliability.
- # 2: Effects may appear temporarily on the screen but there will be no problem in reliability.
- # 3: There is fear of the product breaking down.
- # 4: If a signal cable other than that specified is used, it will be the cause of electromagnetic wave interruption of peripheral devices. To assure continued CE compliance the user must use the provided 1.8m shielded video signal cable with bonded ferrite cores at both ends of the cable.

Handle correctly in accordance with the instruction manual.

*EMI: Electromagnetic Interference: *ESD: Electrostatic Discharge: *RF:: Radio Frequency: *F/B:: Fast Burst



CONTENTS

For Your Records
Important Power Cord Notice
Safety Guidelines
FCC Information
CE Conformity
Getting Started
Package Contents
Unique Features 5
Precautions 6
Cleaning the Monitor
Quick Installation
Operation
Front Control Panel
OnView® Main Menu
OnView® Controls9
Technical Data
Specifications
Factory Preset Timings
Troubleshooting
Problem Solving Chart
Warranty 16
Customer Support back cover



Congratulations on your purchase of a ViewSonic PS790 high performance color monitor!

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

Package Contents

Your ViewSonic PS790 package includes the following:

- ViewSonic PS790 monitor
- Video cable with 15 pin mini D-Sub connector
- Power cord
- User's Guide
- Software diskette or CD-ROM which includes :
 - ViewSonic® monitor installation file (VS*.inf) for Windows® 95.

Unique Features

- 19" (18.0"/45.7cm viewable diagonal), 0.25mm dot pitch, high resolution, non-interlaced technology provides **sharp**, **flicker-free images**.
- Power management system conforms to VESA® DPMS™ standards and controls energy consumption when the monitor is not in use.
- Equipped with DDC1TM and DDC2BTM for **Plug & Play** compatibility.
- The monitor is compatible with VGA, SVGA, VESA, and high resolution video modes up to 1600 (H) x 1280 (V)*.
- This product is **Energy Star**® compliant.
- All plastic parts are **recyclable.** All materials are strictly selected to ensure ease of maintenance, inspection, and disposal.



^{*} Up to 1600 x 1200 for FCC class B .
Up to 1600 x 1200 fv=75Hz for TCO'95.

Precautions

- For best viewing conditions sit at least 18" from the monitor.
- AVOID TOUCHING THE SCREEN WITH YOUR FINGERS. Oils from the skin are difficult to remove.
- NEVER REMOVE THE REAR COVER. The monitor contains high-voltage parts. You may suffer serious injury if you touch these parts.
- Avoid exposing the monitor to direct sunlight or another heat source. The monitor should be facing away from direct sunlight to reduce glare.
- Choose a well ventilated area to position your monitor. Do not place anything on the monitor that prevents adequate dissipation of heat.
- Ensure the area around the monitor is clean and free of moisture.
- Keep the monitor away from magnets, motors, transformers, speakers, and televisions.
- Do not place heavy objects on the monitor, video cable, or power cord.
- If smoke, abnormal noise, or strange odor is present, immediately switch the monitor off and call your dealer or ViewSonic. It is dangerous to continue using the monitor.
- Always handle your monitor with care when moving it.

Cleaning the Monitor

- MAKE SURE THE MONITOR IS TURNED OFF.
- To clean the screen:
 - 1 Wipe the screen with a clean, soft, lint-free cloth. This removes dust and other particles.
 - 2 If still not clean, apply a small amount of <u>non-ammonia</u>, <u>non-alcohol</u> based glass cleaner onto a clean, soft, lint-free cloth, and wipe the screen.
- Never spray or pour any liquid directly onto the screen or case.
- To clean the case, use the same procedure as cleaning the screen.
- Avoid spilling liquids of any kind on the monitor.

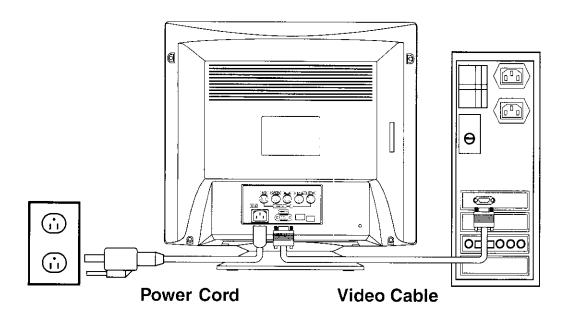
DISCLAIMER

ViewSonic does <u>not</u> recommend the use of any ammonia or alcohol-based cleaners on the monitor screen or case. Some chemical cleaners have been reported to damage the screen and/or case of the monitor. ViewSonic will not be liable for damage resulting from the use of any ammonia or alcohol-based cleaners.

Quick Installation

- 1 Write the serial number printed on the back of the monitor in the space provided in "For Your Records" on page 1.
- 2 Read the Precautions section thoroughly (page 6) before installing the monitor. Make sure the computer and the monitor are both turned off before connecting any cables.
- **3a** *PC users*: Attach the video cable to the computer.
- **3b** *Macintosh users*: A Macintosh computer requires a Viewsonic® Macintosh adapter. To order an adapter, contact ViewSonic Customer Support. See the back cover of this manual for a telephone number in your area.
- 4 Attach the power cord to the back of the monitor, then plug the other end of the power cord into the power source (wall socket).
- 5 Turn the computer on.
- 6 Press the POWER button on the front of the monitor ON. (The Power light will turn green.)
- 7 Adjust the user controls to suit your personal preference. See *Operation*, and if there are any problems see *Troubleshooting*. For the recommended screen resolution, see Factory Preset Timings in *Technical Data*, as well as your graphics card user guide for more detail.

Installation is complete! Enjoy your new PS790 Color Monitor!

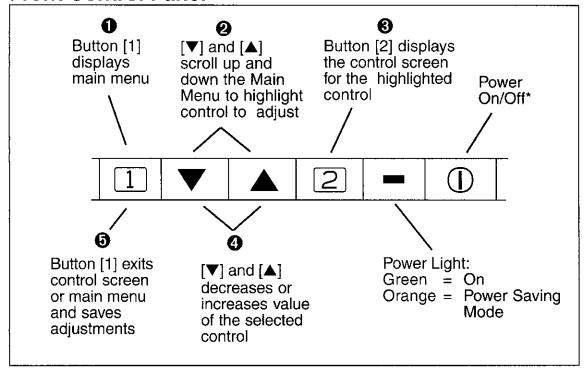


ViewSonic PS790 7



To adjust the monitor, follow the numbered steps in sequence as shown below.

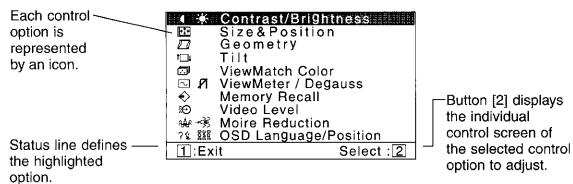
Front Control Panel



OnView® Main Menu

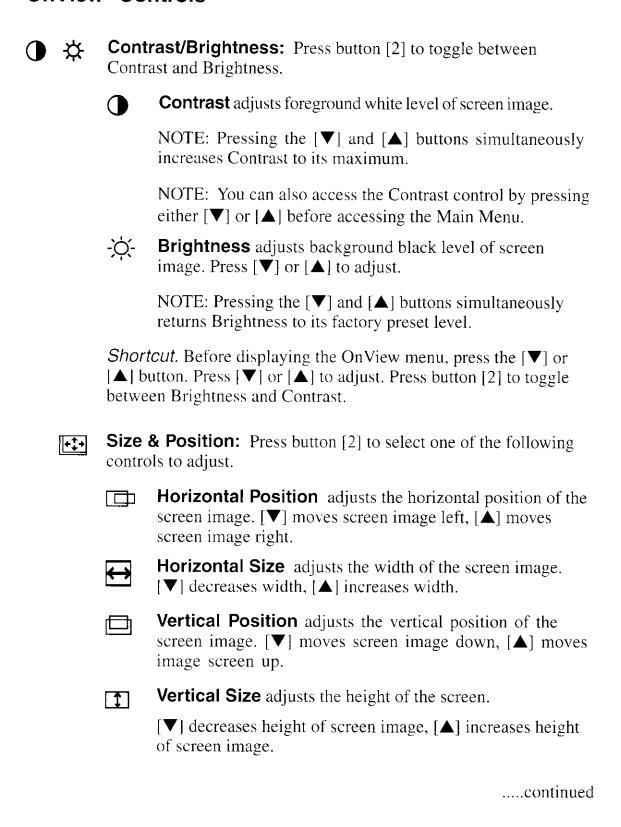
- 1 Press button [1] to display the Main Menu shown below.
- **2** Press the $[\mathbf{V}]$ or $[\mathbf{A}]$ buttons to select a control option to adjust.
- **3** Press button [2] for an individual control screen.
- 4 At each individual control screen, press the $[\nabla]$ or $[\triangle]$ to make adjustments.
- **5** Press button [1] to save changes and exit the screen. The Main Menu also clears automatically approximately 20 seconds after pressing any button.

Main Menu



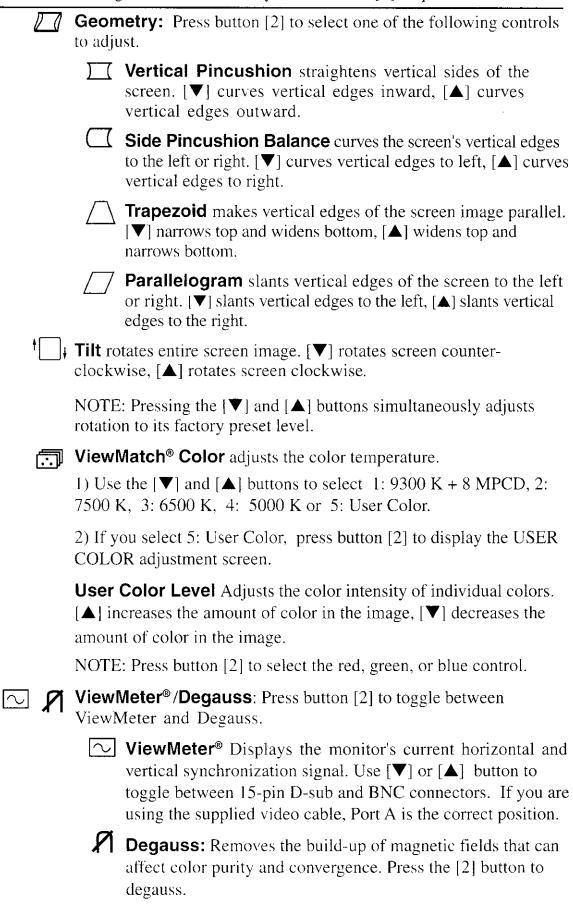


OnView® Controls



E N C L S E

ViewSonic PS790 9





- ← Memory Recall: If the monitor is operating in a factory preset mode (see page 14), this control will reset the image to the factory preset size, position and geometry settings. If the monitor is operating a user defined mode, this control has no effect.
- Video Input Signal Level: Changes the video input signal level to match the computer's signal level.
- Moire Reduction: Press button [2] to toggle between Horizontal and Vertical Moire controls.
 - Horizontal Moire: The control adjusts for horizontal lines caused by interference between the CRT and focus gun caused by input signals, video patterns, etc. [A] increases the amount of adjustment, $[\nabla]$ decreases the amount of adjustment.

CAUTION: Over-correction of moire can affect the picture quality.

Vertical Moire: The control adjusts for vertical lines caused by interference between the CRT and focus gun caused by input signals, video patterns, etc. [▲] increases the amount of adjustment, [V]decreases the amount of adjustment.

CAUTION: Over-correction of moire can affect the picture quality.

- ?설 Language Selection: Allows the user to choose the language in which the control names are displayed.
- SEE OSD Position: Press the [2] button to re-position the OSD.

Self-Test: When there is no signal input (because the cable is not connected or no video signal is coming from the computer), or the monitor is in power saving mode, the self-test screen can be called by pressing the [1], $[\nabla]$, $[\triangle]$, or [2] buttons. An error message screen appears when the horizontal or vertical sync signals are outside of the permitted range.

Specifications

CRT	Type Phosphor Glass surface	19"(18.0" / 45.7cm viewable diagonal), 0.25mm dot pitch, 100° deflection, SuperClear™ RGB, medium-short persistence ARAG (anti-glare, anti-reflection) Standard light transmission rate = 46.0%	
Input Signal	Video Sync	RGB analog (0.7/1.0Vp-p, 75 ohms) H/V separate (TTL), Composite (TTL) Sync-on-Green (0.3Vp-p) f _n : 30-95kHz, f _v : 50-180 Hz	
Compatibility	PC	IBM® XT, AT, 386, 486, Pentium® or PS/2 and compatibles (from VGA up to 1600 x 1280*1 non-interlaced)	
	Macintosh®*2	Macintosh II family,LC,LCII,Quadra and Power Machintosh	
Connectors	Video-Cable Power	15-pin mini D-Sub,BNC x 5 3-pin plug (CEE22)	
Maximum Refresh rates**		1600 x 1280 NI @ 71Hz*1 1600 x 1200 NI @ 76Hz 1280 x 1024 NI @ 88Hz 1152 x 870 NI @ 77Hz 1024 x 768 NI @116Hz 800 x 600 NI @146Hz 640 x 480 NI @180Hz 640 x 400 NI @180Hz	
Power	Voltage	AC 100 to 240V	
	Consumption	AC 140 watts (typical)	
Video in	Bandwidth	202.5 MHz (max.)	
Max Brightness		103cd/m² (typical)	
Misconvergence	### 0.30mm (max) at center 0.40mm (max) at corner		

^{*1} Up to 1600 x 1200 for FCC class B.
Up to 1600 x 1200 fv=75Hz for TCO'95.

^{**} WARNING: Do not exceed these maximum refresh rates for your monitor. Doing so may result in permanent damage to the monitor. Some graphics cards support refresh rates higher than the monitor is capable of handling. NI = non-Interlaced. For the recommended factory setting for this monitor, see page 14.



ViewSonic PS790

Continued...

^{*2} Macintosh® computers require ViewSonic® Macintosh adapters. Contact your local dealer or ViewSonic for your free adapter. See the back cover for a telephone number in your area.

Specifications, continued

		-			
Display Area	Factory setting	,	H) x 264mm (V) typical	(Dependent upon signal timing used	
	Large scan	300111111 (F	H) x 274mm (V)	signal tilling usec	
Operating	Temperature	41°F to 95	5°F (5°C to 35°C)		
Conditions	Humidity	5% to 90°	% (no condensation)		
	Altitude	To 10,000	feet		
Storage	Temperature	-4°F to +140°F (-20°C to +60°C))	
Conditions	Humidity	5% to 909	% (no condensation)		
	Altitude	To 40,000	feet		
Dimensions	Physical	448 mm (W) x 454 mm (H) x 415 mm (D)			
	,	17.6" (W) x 17.9" (H) x 16.3" (D)			
	Packing	565mm (W) x 561mm (H) x 535mm (D)			
		22.2" (W) x 22.1" (H) x 21.1" (D)			
Swivel Angles	Rotation left	90°			
•	Rotation right	90°			
	Tilt up	13°			
	Tilt down	4°			
Weight	Net	21.5kg (4	7.4lb)		
	Gross	25.0kg (55.1lb)			
Regulations	UL, CSA, TÜV/GS, NORDIC, DHHS, HC, FCC-B, IC-B, CE/CISPR22-B,				
	BCIQ, C-Tick, VCCI-B, MPR II, TCO'95, NUTEK, ISO9241-3,				
	(Ergonomics), Energy Star®				
Power savings	On	green	140W typical		
LED modes	Stand By	yellow	< 15 W		
	Suspend	yellow	< 15 W		
	Off	yellow	< 4 W		
Other Features	ther Features Compatible with the display data channel standards DDC DDC2B™ Plug & Play +		DC1™ and		

*Power Management System

This monitor meets VESA® DPMS™ (Display Power Management Signaling) standards. For the monitor's power saving feature to work, the graphics card in the computer must also meet VESA DPMS standards. The monitor complies with European NUTEK Power Management Standards. The Off state means the monitor is in the lowest DPMS state with the highest power savings.

All products and trademarks are brand names of their respective companies. Specifications are subject to change without notice.

ViewSonic PS790 13

Factory Preset Timings

Timings shown below have been pre-adjusted for this monitor. For the best performance, use the recommended setting shown in **bold** below. For more information, see your video card user's guide.

Timings	Horiz. Freq. kHz	Vert. Freq. Hz	Polarity(H/V)
VGA 640 x 480	31.47	59.94	- /
VESA 640 x 480	37.50	75.00	_/_
VESA 800 x 600	46.88	75.00	+/+
MAC 832 x 624	49.73	74.55	_/_
VESA 1280 x 1024	79.98	75.03	+/+
VESA 1600 x 1200	93.75	75.00	+/+
MAC 1152 x 870	68.68	75.06	-/
VESA 1024 x 768	60.02	75.03	+/+

No power

- Press Power button (or flip power switch) ON. Power Light turns on.
- Make sure A/C power cord is securely connected to back of monitor and to a power outlet.
- Plug another electrical device (like a radio) into power outlet to verify that outlet is supplying proper voltage.

Power on but no screen image

- Make sure video cable supplied with monitor is tightly secured to video output port on back of computer. If other end of video cable is not attached permanently to monitor, tightly secure it to monitor.
- Adjust brightness and contrast.
- Check this user's guide to see if an adapter is required for proper signal continuity between graphics card and monitor.

Flickering

- Not enough power supplied. Connect monitor to different outlet. If using surge protector, reduce number of devices plugged in.
- Check ViewMeter to verify refresh rate (vertical frequency) is 75 Hz or higher. See
 Factory Preset Timings on page 14 with a list of refresh rates and frequency settings
 showing the best setting for this monitor.
- Make sure graphics card in your computer can utilize non-interlaced mode at desired frequencies. To enable your graphics card to support higher refresh rates, try selecting fewer colors or running lower resolutions.
- Remove any devices from area around monitor that emit magnetic fields such as radios, surge protectors, unshielded speakers, fluorescent lights, AC power converters, desk fans, etc.

Wrong or abnormal colors

- If any colors (red, green, or blue) are missing, check video cable to make sure it is securely connected. Loose pins in the cable connector could cause a bad connection.
- Connect monitor to another computer.
- Check graphics card for proper sync scheme (or sync polarities) to match monitor's specifications.
- Turn monitor OFF, wait one minute, then turn ON again. Do this only once.
- If you have an older graphics card, contact ViewSonic Customer Support for a non-DDC adapter.

Entire screen image scrolls (rolls) vertically

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

Control buttons do not work

Press only one button at a time.

LIMITED WARRANTY VIEWSONIC PS790 MONITORS

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** *PS790* color monitor, including the display tube, are warranted for three (3) years for all parts and three (3) years for all labor from the date of the first consumer purchase.

Who the warranty protects:

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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 on obtaining warranty service, call **ViewSonic**. The customer support telephone numbers are:
 - U.S. and Canada only: 1-800-688-6688: from outside the U.S. and Canada: 909-869-7976; from Europe +44 (1293)-643-900; from Asian / Pacific Rim countries 886 (2) 248-4072. Internet E-Mail address:

vstech@viewsonic.com or on the World Wide Web: http://www.viewsonic.com

- 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 prepaid in the original container to your ViewSonic dealer, any ViewSonic service center or 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 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:

- 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 7/7/96

For ViewSonic® Customer Support:

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 (2) 248-4072

Internet E-Mail: vstech@viewsonic.com

World Wide Web: http://www.viewsonic.com

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