

ViewSonic®

E70f+ CRT Monitor



- User Guide
- Guide de l'utilisateur
- Bedienungsanleitung
- Guía del usuario
- Guida dell'utente
- Guia do usuário
- Användarhandbok
- Käyttöopas
- Podręcznik użytkownika
- Руководство пользователя
- 사용자 안내서
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Compliance Information

For U.S.A.

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 cables which are included with the equipment or specified. 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.

For Canada

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la Classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

CE Conformity for European Countries

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."

User Information for all Countries

Notice: Use the cables which are included with the unit or specified.

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this unit near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other devices (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs. Convenience receptacles and the point where they exit from the unit. Be sure that the power outlet is located near the unit so that it is easily accessible.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the unit. When a cart is used, use caution when moving the cart/unit combination to avoid injury from tip-over
13. Unplug this unit when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the unit has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the unit, the unit has been exposed to rain or moisture, does not operate normally, or has been dropped.

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ViewSonic, the three birds logo, OnView, ViewMatch, and ViewMeter are registered trademarks of ViewSonic Corporation.

VESA is a registered trademark of the Video Electronics Standards Association. DPMS and DDC are trademarks of VESA.

ENERGY STAR[®] is a registered trademark of the U.S. Environmental Protection Agency (EPA).

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

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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.

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Product Registration

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

For Your Records

Product Name:	E70f+ ViewSonic 17" CRT Monitor
Model Number:	VCDTS23125-3
Document Number:	E70f+/SB-3_UG_ENG Rev. 1B 12-27-04
Serial Number:	_____
Purchase Date:	_____

Product disposal at end of product life

ViewSonic is concerned about the preservation of our environment. Please dispose of this product properly at the end of its useful life. For TCO'03 recycling information, please refer to our website:

1. USA: www.viewsonic.com/pdf/recyclePlus.pdf
2. Europe: www.viewsoniceurope.com
3. Taiwan: recycle.epa.gov.tw

Getting Started

Congratulations on your purchase of a ViewSonic® color monitor. **Important!** *Save the original box and all packing material for future shipping needs.*

NOTE: The word “Windows” in this user guide refers to the following Microsoft operating systems: Windows 95, Windows NT, Windows 98, Windows 2000, Windows Me (Millennium), and Windows XP.

Package Contents

- Color monitor
- Power cord
- D-sub video cable (attached)
- Quick Start Guide
- ViewSonic Wizard CD-ROM (includes User Guide PDF and INF/ICM display optimization files)

Precautions

-
- For best viewing conditions sit at least 17” 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, including an open flame. The monitor should be facing away from direct sunlight to reduce glare.
 - Always handle your monitor with care when moving it.
 - Place your monitor in a well ventilated area. 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.
-

Quick Installation

- 1 Connect the monitor and computer power cords to a properly grounded AC outlet.
- 2 Connect the video cable from your monitor to your computer.

NOTE: Macintosh users may need an adapter. (See *Customer Support* on page 12.)

- 3 Turn on your monitor, then your computer. This sequence (monitor before computer) is important.

NOTE: Windows 95, 98 or 2000 users may receive a message asking them to install the INF file. This is on the CD.

- 4 Insert the ViewSonic Wizard CD.

NOTE: If you do not have a CD-ROM drive, contact ViewSonic Customer Support.

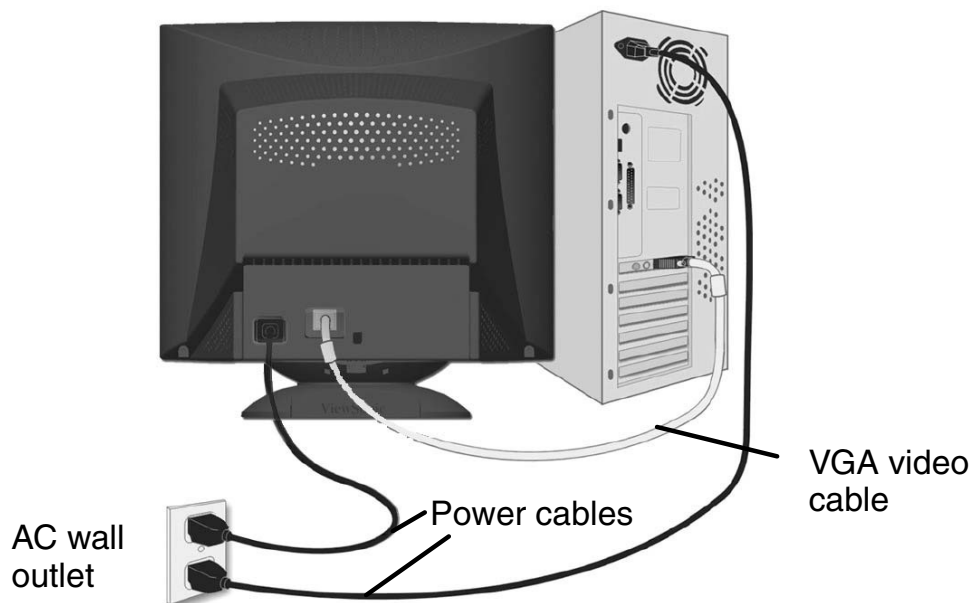
NOTE: If the CD does not auto-start, double-click the CD icon in Windows Explorer, then double-click **vswzrd.exe**.

Macintosh users: from the Macintosh desktop, double-click on the “ViewSonic Wizard” folder, then double-click on the “ViewSonic” icon.

- 5 Follow the on-screen instructions.

Windows users: Set the timing mode (see *Setting up the Timing Mode* on page 5).

To register your product online, go to the ViewSonic website for your region. See the Customer Support table in this guide.



Using your monitor

Setting the Timing Mode

Setting the timing mode is important for maximizing the quality of the screen image and minimizing eye strain. The **timing mode** consists of the **resolution** (example: 1024 x 768) and **refresh rate** (or vertical frequency, example: 85 Hz).

For the best picture quality set your monitor to: **VESA® 1024 x 768@ 85 Hz.**

To set the Resolution:

- 1 Right-click on the Windows desktop.
- 2 Click *Properties* on the drop-down menu.
- 3 Click the *Settings* tab.
- 4 Select the resolution by moving the slider, which displays in the *Desktop area* or *Screen area* in the window.

NOTE: The refresh rate should already be set if you have completed the ViewSonic Wizard CD installation (or refer to your graphics card's documentation).

OSD Lock Settings

You have the option of using the OSD Lock feature to prevent current image adjustments from being changed.

- **OSD Lock:** Press and hold [1] and the down arrow ▼ for 10 seconds. If any buttons are pressed the message *OSD Locked* will display for 5 seconds.
- **OSD Unlock:** Press and hold [1] and the down arrow ▼ again for 10 seconds.

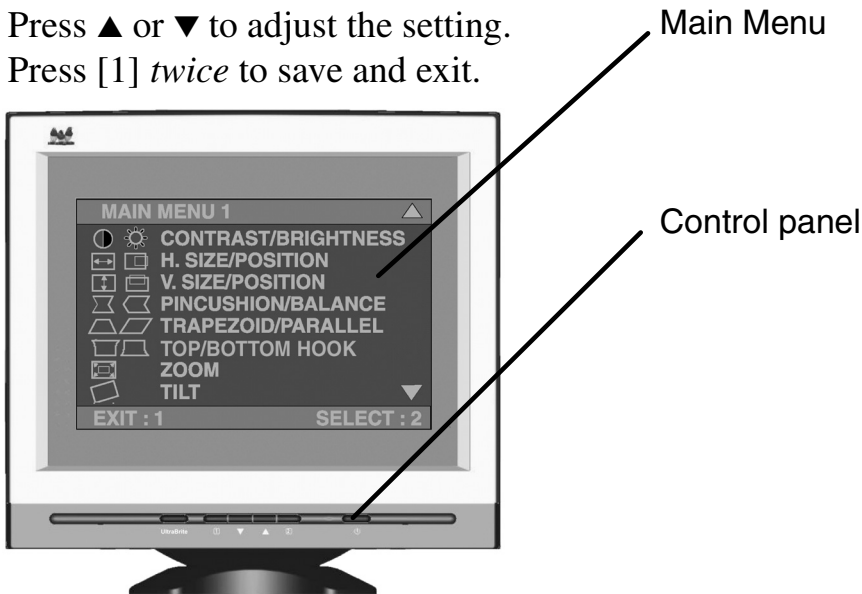
Adjusting the Screen Image

Use the buttons on the monitor control panel to adjust the OnView® controls.

- 1 Press [1] to display the Main Menu.

NOTE: OnView controls disappear after 15 seconds.

- 2 Press ▲ or ▼ to highlight an option.
- 3 Press [2].
- 4 Press ▲ or ▼ to adjust the setting.
- 5 Press [1] *twice* to save and exit.



Switches between Normal, UltraBrite 3x and UltraBrite 5x modes:

"NORMAL: TEXT/SPREADSHEET":

When selected, this brightness level setting displays a standard CRT brightness of 120 nits for text and spreadsheet applications.

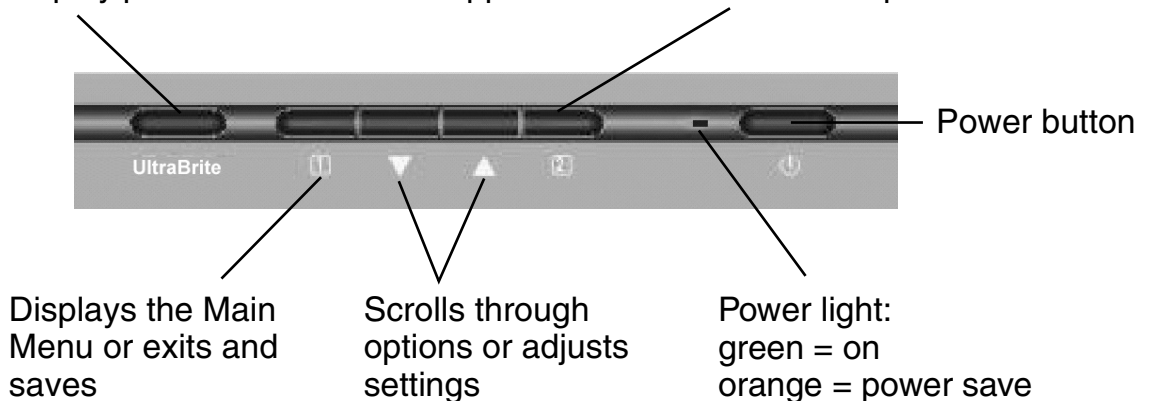
"ULTRABRITE 3x: GRAPHICS/GAME":

When selected, this UltraBrite™ setting displays up to 300 nits of brightness for optimum display performance of graphics applications and games .

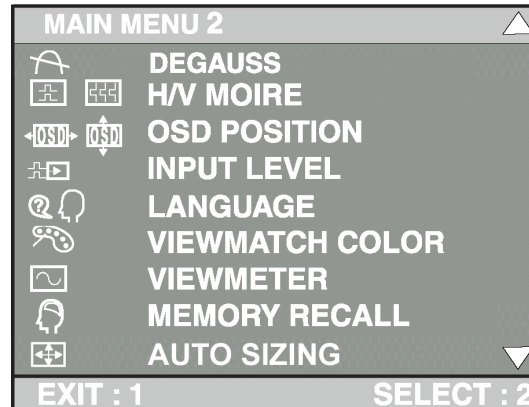
"ULTRABRITE 5x: VIDEO/MOVIE/DVD":

When selected, this UltraBrite™ setting displays up to 500 nits of brightness for optimized display performance of video applications.









Displays the highlighted option or toggles between options



Menu Options



Control	Explanation
	Contrast adjusts the difference between the image background (black level) and the foreground (white level).
	Brightness adjusts the background black level of the screen image.
	Horizontal Size adjusts width of the screen image.
	Horizontal Position moves the screen image left or right.
	Vertical Size adjusts the height of the screen image.
	Vertical Position moves the screen image up or down.
	Pincushion curves the vertical sides of the screen image.
	Pin Balance curves the vertical edges of the screen image to the left or right.
	Trapezoid adjusts the top and bottom of the screen image until they have equal length.
	Parallelogram slants the vertical edges of the screen image until they are parallel.
	Top Hook adjusts the top corners of the screen image.
	Bottom Hook adjusts the bottom corners of the screen image.

Control	Explanation
	Zoom expands and contracts the entire screen image.
	Tilt rotates the entire screen image.
	<p>Degauss removes the build-up of magnetic fields that can cause irregular colors to appear around the edges of screen images. There are two ways to degauss the display: automatically by turning the monitor on, or manually by selecting the Degauss control from the menu.</p> <p>With Degauss selected from the menu, press button [2] to degauss the monitor manually.</p> <p>Important: <i>Do not degauss repeatedly. Doing so can be harmful to the display. Wait at least 20 minutes before selecting this control again.</i></p>
	<p>H/V Moire reduces interference patterns that appear as ripples, waves, or unwanted background color textures. Interference patterns of this type are most noticeable when viewing images having closely spaced lines or finely detailed patterns.</p>
	OSD Position allows you to move the on-screen menus and control screens.
	<p>Input Level displays the voltage level of the video signal. Note: the default selection is 0.7V.</p>
	Language allows you to choose from among several languages for the menus and control screens: English, French, German, Italian, and Spanish.
	<p>ViewMatch® Color provides several color options: preset color temperatures and User Color which allows you to adjust red (R), green (G), and blue (B). The factory setting for this product is 9300K (9300° Kelvin).</p> <p>9300K — Adds blue to the screen image for cooler white (used in most office settings with fluorescent lighting).</p> <p>6500K — Adds red to the screen image for warmer white and richer red.</p> <p>5000K — Adds blue and green to the screen image for a darker color.</p> <p>User Color — Individual adjustments for red, green, and blue.</p>

Control	Explanation
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Viewmeter[®] displays information regarding the current input signal coming from the graphics card of the computer. See *Setting the Timing Mode* on page 5.



Memory Recall returns adjustments to the original factory settings if the display is operating in a Preset Timing Mode. (See the table at the bottom of page 10.)

Exception: This control does not affect changes made with the **User Color** control.



Auto Sizing automatically adjusts horizontal and vertical size and position of the screen image.

Other Information

Specifications

CRT	Type	Full 17" (16.0" viewable diagonal area), 0.21 mm Horizontal, 0.13 mm Vertical, and 0.25 mm diagonal dot pitch, 90° deflection
	Phosphor Glass surface	RGB P22 medium short persistence Anti-reflection, anti-static, and anti-glare coating Standard light transmission rate = 52%
Input Signal	Video Sync	RGB Analog (0.7/1.0Vp-p, 75 Ohms) f _H : 30-70 kHz, f _V : 50-160 Hz H / V Separate (TTL), Composite
Compatibility	PC Macintosh ¹	VGA up to 1280x1024, non-interlaced Power Macintosh [®] (may require Macintosh cable adapter)
Timing Modes with Maximum Refresh Rates²		1280 x 1024 @ 66 Hz 640 x 480 @ 133 Hz 1024 x 768 @ 87 Hz 800 x 600 @ 110 Hz
Power	Voltage Consumption	AC 100-240 VAC, 50/60 Hz 75W (typical)
Connectors	Input Signal Power	15 pin mini D-sub 3-pin plug (IEC320)
Display Area	Default Full scan	310 mm (H) x 230 mm (V) (typical) 320 mm (H) x 240 mm (V) (depends on signal timing)
Operating Conditions	Temperature Humidity Altitude	41° F to 104° F (5° C to 40° C) 5% to 95% (no condensation) From -1312 feet to 9,482.5 feet (-400 m to 3,000 m)
Storage Conditions	Temperature Humidity Altitude	-40° F to +140° F (-40° C to +60° C) 5% to 95% (no condensation) From -1312 feet to 39,370 feet (-400 m to 12,000 m)
Dimensions	Physical (monitor)	400 mm (W) x 400.98 mm (H) x 428.6 mm (D) 15.74" (W) x 15.78" (H) x 16.87" (D)
Weight	Net	14.7 kg / 32.4 lb
Regulations		BSMI, PSB, CCC, VCCI TCO'99, GS, Ergo, CE, GOST-R & Hygienic SASO, PCBC UL/cUL, DHHS, FCC-B, ICES-B, NOM, TUV-S ENERGY STAR [®]
Power Saving Modes	On Off	< 75 W TYPICAL (Green LED) < 4 W (Orange LED)

¹ Macintosh users may need an adapter. Contact ViewSonic (see *Customer Support* on page 12).

² **Warning:** Do NOT set the graphics card in your computer to exceed these Maximum Refresh Rates; doing so could result in permanent damage to the monitor.

Preset Timing Modes

VGA 640 x 400 @ 70 Hz VESA [®] 640 x 480 @ 60,75, 85 Hz VESA 800 x 600 @ 75, 85 Hz VESA 1024 x 768 @ 75Hz VESA 1024 x 768 @ 85 Hz	VESA 1280 x 1024 @ 60 Hz Macintosh [®] 640 x 480 @ 67 Hz Macintosh 832 x 624 @ 74.6 Hz Macintosh 1024 x 768 @ 75 Hz
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Troubleshooting

No power

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

Power is ON but no screen image

- Make sure the video cable supplied with the monitor 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 monitor, tightly secure it to the monitor.
- Adjust brightness and contrast.
- **NOTE:** Macintosh users may need an adapter. Contact Customer Support for more information.

Flickering

- Not enough power supplied. Connect the monitor to a different outlet. If using a surge protector, reduce the number of devices plugged in.
- Check the ViewMeter® from the main menu to verify the refresh rate (vertical frequency) is 75 Hz or higher. See “Specifications” on page 10.
- Remove any devices from the area around the monitor that emit magnetic fields such as radios, surge protectors, unshielded speakers, fluorescent lights, AC power converters, desk fans, etc.
- Make sure the graphics card in your computer can use non-interlaced mode at the desired frequencies. To enable your graphics card to support higher refresh rates, try selecting fewer colors or running lower resolutions.

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 monitor to another computer.
- Select Degauss from the Main Menu. Do this only once.
- If you have an older graphics card, contact ViewSonic® Customer Support.

Entire screen image rolls vertically

- Make sure video input signals are within the monitor's specified frequency range.
- Try the monitor 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.

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	Web site	T = Telephone F = FAX	Email
United States	www.viewsonic.com/ support	T: (800) 688-6688 F: (909) 468-1202	service.us@ viewsonic.com
Canada	www.viewsonic.com/ support	T: (800) 688-6688 F: (909) 468-1202	service.ca@ viewsonic.com
United Kingdom	www.viewsoniceurope.com	T: 0800 833 648 F: (01293) 643910	service.eu@ viewsoniceurope.com
Europe, Middle East, Baltic countries, and North Africa	www.viewsoniceurope.com	Contact your reseller	service.eu@ viewsoniceurope.com
Australia and New Zealand	www.viewsonic.com.au	T: +61 2 9906 6277 F: +61 2 9906 6377	service@au. viewsonic.com
Singapore/ Malaysia/Thailand	www.viewsonic.com.sg	T: 65 273 4018 F: 65 273 1566	service@sg. viewsonic.com
South Africa/ Other countries	www.viewsonic.com	T: 886 2 2246 3456 F: 886 2 8242 3668	service@sd. viewsonic.com
Hong Kong	www.hk.viewsonic.com	T: 886 2 2246 3456 F: 886 2 8242 3668	service@hk. viewsonic.com

Cleaning the Monitor

- MAKE SURE THE MONITOR 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 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.
- 2 If still not clean, apply a small amount of a non-ammonia, non-alcohol based, mild non-abrasive detergent onto a clean, soft, lint-free cloth, then wipe the surface.

DISCLAIMER

ViewSonic® does not 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 use of any ammonia or alcohol-based cleaners.

Limited Warranty

VIEWSONIC CRT 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:

ViewSonic[®] color CRT monitors, including the display tubes, 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:

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 electrical 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.** You will need to provide your product'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 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.

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.

ViewSonic CRT Monitor Warranty (V3.0)



ViewSonic®

Free Manuals Download Website

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<http://www.somanuals.com>

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<http://www.404manual.com>

<http://www.luxmanual.com>

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Auto manuals search

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