ViewSonic®

P815 **Color Monitor**

User's Guide

Guide de l'utilisateur

Manual de Instrucciones
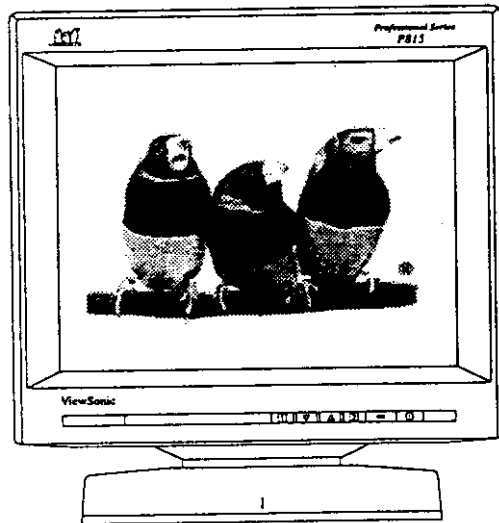
Guia do usuário

with Plug & Play +

21" (20.0" viewable diagonal)

VCDTS21492-4

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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 monitor 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 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 P815
Model Number : VCDTS21492-4
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 :

USA .... UL
Canada .... CSA
Germany .... VDE
Switzerland .... SEV
Britain .... BASEC / BS
Japan .... Electric Appliance Control Act

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

ViewSonic P815

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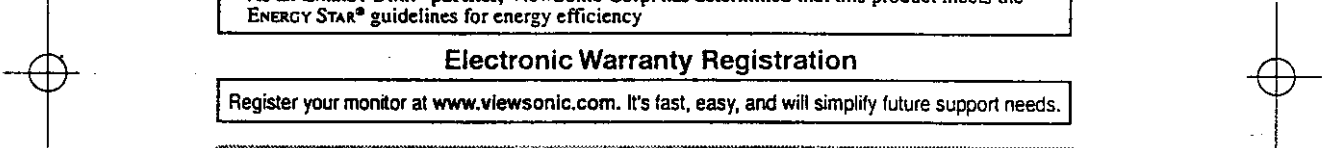
Power Cord Safety Guidelines (continued)

AC PLUG CORD PRECAUTIIONS FOR THE UNITED KINGDOM

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.

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

THERE IS A DANGER OF SEVERE ELECTRIC 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, by the Earth symbol ⏚ 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 set for this unit has been enclosed 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, or if the cord set is not enclosed.

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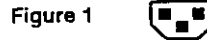
Figure 1

For the United States and Canada
In the United States and Canada the male plug is a NEMA5-15 style (Figure 2), 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 the proper power cord to use, please consult the dealer from whom you have 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 a 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 for 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 7A min.
One end terminated in a molded on parallel blade, grounding attachment cap or hooded attachment cap
(15A, 125V configuration), the other end terminated in a mold-on appliance coupler.

Notice for Germany

"Die in diesem Gerät entstehende Röntgenstrahlung ist ausreichend abgeschirmt.
Beschleunigungsspannung maximal 28,5 kV " Aus ergonomischen Gründen wird empfohlen, die
Grundfarbe Blau nicht auf dunklem Untergrund zu verwenden (schlechte Erkennbarkeut,
Augenbelastung bei zu geringem Zeichenkontrast wäre die Folge).

Notice for Japan

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスB情報技術
装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテ
レビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。
取扱説明書に従って正しい取り扱いをして下さい。

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 may be the cause of electromagnetic interference to 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.

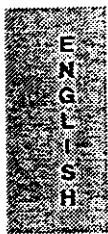Handle correctly in accordance with the instruction manual.

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

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ViewSonic P815

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ブラック

CONTENTS

Getting Started

Operation

Other Information

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

Getting Started

Congratulations on your purchase of a Professional Series ViewSonic *P815* monitor! *Important: Save the original box and all packing material for future shipping needs.*

NOTE: This product was designed for operating in the region where it was purchased. Also, the word "Windows®" in this user guide refers to the following Microsoft® operating systems: Windows 95, Windows 98, Windows NT (5.0).

Package Contents

Your **ViewSonic** *P815* package includes the following:

- ViewSonic *P815* monitor with USB* Hub located on the monitor base
- Video cable with 15 pin high density mini D-sub connector
- Power cord
- USB (Universal Serial Bus) cable
- User's Guide
- ViewSonic USB OnView® Host driver diskette
- INF installation file on diskette or CD-ROM.

* USB (Universal Serial Bus) is a peripheral bus standard that allows USB peripheral devices to be automatically configured when they are attached to a USB computer or hub. USB technology also permits multiple USB devices to run simultaneously, such as a USB compatible mouse, keyboard, scanner, digital camera, printer, joystick(s), etc.
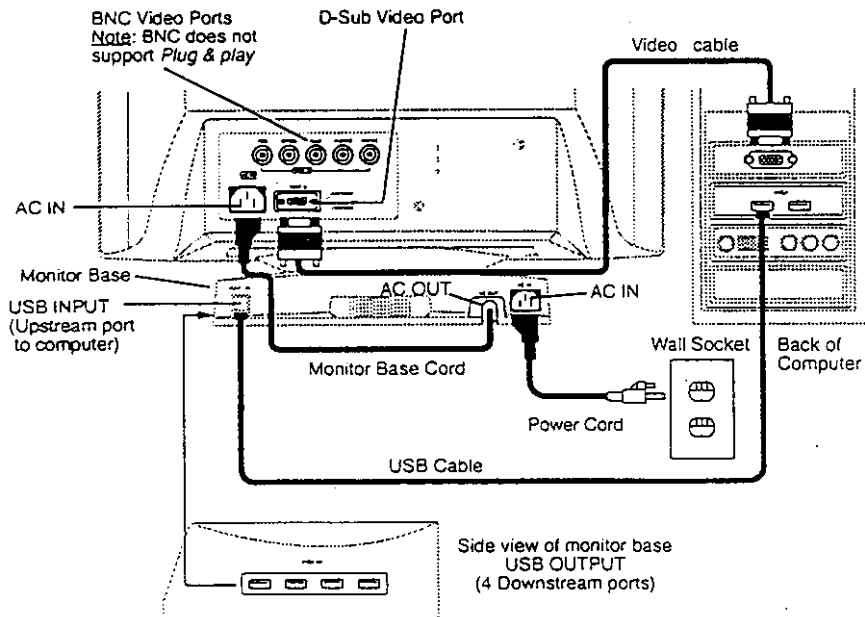
Precautions

- For the 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.

Quick Installation

1 Write the serial number on the back of the monitor in the space provided on page 1 labeled *"For your records"* and register your monitor's warranty on the Internet at http://www.viewsonic.com.

2 Read the Precautions section thoroughly 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 a Video Input port on the monitor (see below). Then connect the other end to your computer.

3b Macintosh® users: A Macintosh computer requires a ViewSonic® Macintosh adapter (part No. VMAC-1). To order an adapter, contact ViewSonic Customer Support. See the back cover of this manual. You will need to provide the serial number of your monitor.

4 Plug the attached Monitor Base Cord from AC OUT (shown below) to the monitor's AC IN port.

5 Attach the power cord to the back of the monitor's base (AC IN). Then plug the other end of the power cord into the power source (wall socket).

BNC Video Ports
Note: BNC does not support *Plug & play*

D-Sub Video Port

Video cable

AC IN

Monitor Base

USB INPUT
(Upstream port to computer)

AC OUT

AC IN

Monitor Base Cord

Wall Socket

Back of Computer

Power Cord

USB Cable

Side view of monitor base
USB OUTPUT
(4 Downstream ports)

DISCLAIMER: Functionality differs with each monitor and computer set-up. USB functions require Windows®98 or Windows 95 OSR 2.1. However, certain computers, video cards, and versions of Windows 95 may not be compatible with USB functions. Macintosh® operating systems are not compatible with USB functions.

ViewSonic P815

Quick Installation, *continued*

6 To use the USB Hub, connect the supplied USB cable from the USB output on your computer to the USB Input (upstream port) on the rear of the monitor base.

7 Connect any USB device(s) into any of the monitor USB outputs (downstream ports) on the side of the base.

8 Turn the computer on. Then, press the **POWER** button on the front of the monitor **ON**. (The Power light will turn green.)

9 Adjust the user controls to suit your personal preference. See the Operation section, and if there are any problems, see the *Troubleshooting* section.

   Important: To set the resolution, see your computer's or graphics card's user guide for instructions. For a list of Preset Timing Modes and the pre-adjusted screen resolution for this monitor, see Preset Timing Modes in the Specifications section.

   Installation is complete! Enjoy your new monitor!

USB OnView® Host Software Installation
(for Windows® 98 & Windows 95 OSR-2.1)

If either Windows 98 or Windows 95 OSR-2.1 operating system is installed in your computer, you have the option of attaching USB peripheral devices (mouse, keyboard, etc.) to your computer, as well as adjusting the screen image by using the ViewSonic® USB OnView Host software. To complete the USB installation, do the following:

1 Follow Quick Installation steps 1-8 listed above.

2 Install the ViewSonic USB OnView Host software and USB Driver software by following the instructions on the Readme file located on the installation diskette.

3 Plug the *upstream* (square) connector of the USB cable into the USB INPUT port on the base of the monitor. Then plug the *downstream* (rectangular) connector into an *upstream* USB INPUT port on your computer.

4 Plug your choice of USB peripheral devices (mouse, keyboard, scanner, etc.) into any *downstream* (rectanglar) ports on the monitor (four on the side.)
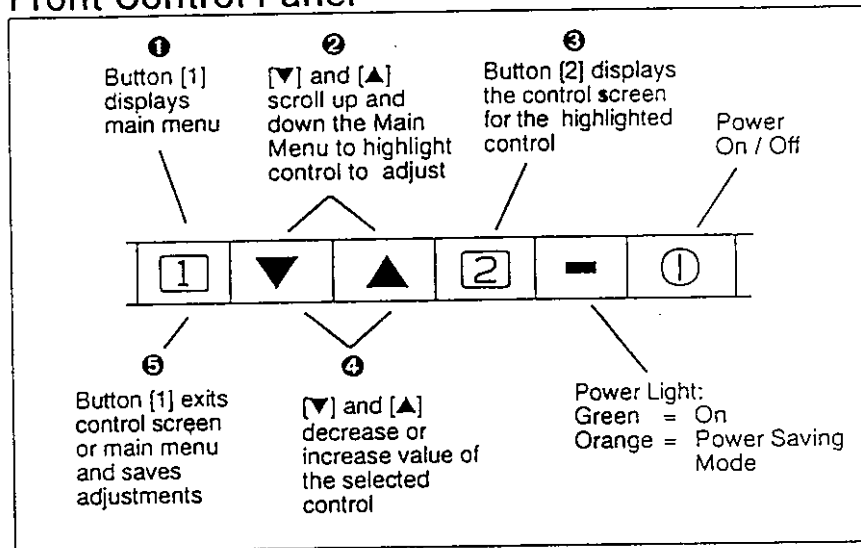
Operation

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

Front Control Panel

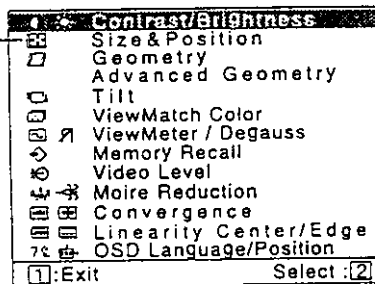**❶** Button [1] displays main menu

❷ [▼] and [▲] scroll up and down the Main Menu to highlight control to adjust

❸ Button [2] displays the control screen for the highlighted control

Power On / Off

`[ 1 ]   ▼   ▲   [ 2 ]   ▬   ①`

❺ Button [1] exits control screen or main menu and saves adjustments

❹ [▼] and [▲] decrease or increase value of the selected control

Power Light:
Green = On
Orange = Power Saving Mode

OnView® Main Menu

1 Press button [1] to display the Main Menu shown below.

2 Press the [▼] or [▲] 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 [▼] or [▲] to make adjustments.

5 Press button [1] to save changes and exit the screen. The Main Menu also automatically disappears approximately in 20 seconds after pressing any button.

Main Menu

Each control option is represented by an icon.

```
  ✦ Contrast/Brightness
⊞   Size & Position
▱   Geometry
    Advanced Geometry
⊡   Tilt
⊟   ViewMatch Color
⊡ ♫ ViewMeter / Degauss
⟳   Memory Recall
⊕   Video Level
⩞ ⩞ Moire Reduction
⊞ ⊞ Convergence
⊟ ⊟ Linearity Center/Edge
7¢ ⊞ OSD Language/Position
[1]:Exit              Select :[2]
```

Button [2] displays the individual control screen of the selected control option to adjust.

ViewSonic P815
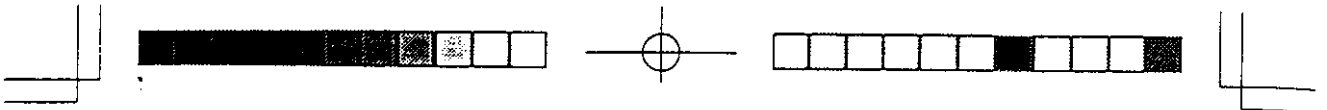
Changes are automatically saved when [1] is pressed.

OnView® Controls

○ ☼ **Contrast / Brightness:** Press button [2] to toggle between Contrast and Brightness as shown below.

    ○ **Contrast** adjusts foreground white level of screen image.

    NOTE: Pressing the [▼] and [▲] buttons simultaneously increases Contrast to its maximum.

    NOTE: You can also access the Contrast control by pressing either [▼] or [▲] before accessing the Main Menu.

    ☼ **Brightness** adjusts background black level of screen image. Press [▼] or [▲] to adjust.

    NOTE: Pressing the [▼] and [▲] buttons simultaneously returns Brightness to its factory preset level.

    Shortcut. Before displaying the OnView menu, press the [▼] or [▲] button. Press [▼] or [▲] to adjust. Press button [2] to toggle between Brightness and Contrast.

⊞ **Size & Position:** Press button [2] to select one of the following controls to adjust.

    ⤢ **Zoom** expands and contracts the entire screen image. [▼] contracts the image, [▲] expands the image.

    ⊡ **Horizontal Position** adjusts the horizontal position of the screen image. [▼] moves screen image left, [▲] moves screen image right.

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

    ⊟ **Vertical Position** adjusts the vertical position of the screen image. [▼] moves screen image down, [▲] moves screen image up.

    ⊡ **Vertical Size** adjusts the height of the screen. [▼] decreases height of screen image, [▲] increases height of screen image.

...continued
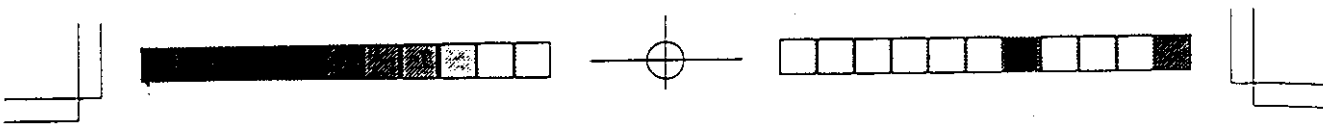
Geometry: Press button [2] to select one of the following controls to adjust.

Vertical Pincushion straightens vertical sides of the screen. [▼] curves vertical edges inward, [▲] curves vertical edges outward.

Side Pincushion Balance curves the screen's vertical edges to the left or right. [▼] curves vertical edges to the left, [▲] curves vertical edges to the right.

Trapezoid makes vertical edges of the screen image parallel. [▼] narrows top and widens bottom, [▲] widens top and narrows bottom.

Parallelogram slants vertical edges of the screen to the left or right. [▼] slants vertical edges to the left, [▲] slants vertical edges to the right.

Advanced Geometry: Press button [▲] to charge the sub OSD screen, Press button [2] to select one of the following controls to adjust.

Top Hooking The image can be corrected for vertical pincushion distortion in top hooking.

Bottom Hook The image can be corrected for vertical pincushion distortion in the bottom hooking.

S1 **Hourglass** The image can be corrected for vertical pincushion distortion in the Hourglass.

S2 **Hourglass Bal** The image can be corrected for vertical pincushion distortion in the Hourglass Bal.

Tilt: rotates entire screen image. [▼] rotates screen counter-clockwise, [▲] rotates screen clockwise.

NOTE: Pressing the [▼] and [▲] buttons simultaneously adjusts rotation to its factory preset level.

ViewMatch® Color: adjusts the color temperature.

1) Use the [▼] and [▲] buttons to select 1: 9300° K + 8 MPCD, 2: 7500° K, 3: 6500° K, 4: 5000° K, 5: 9300° K + 27 MPCD, or 6: User Color.
2) If you select 6: User Color, press button [2] to display the USER COLOR adjustment screen.

...continued
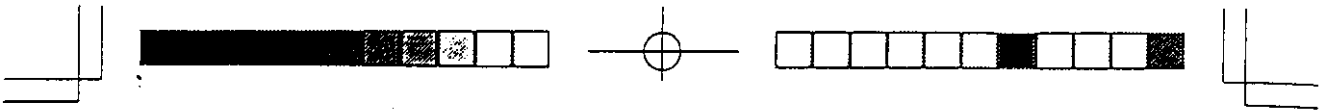
Changes are automatically saved when [1] is pressed.

User Color Level: adjusts the color intensity of individual colors. [▲] increases the amount of color in the image, [▼] decreases the amount of color in the image.

NOTE: Press button [2] to select the red, green, or blue control.

ViewMeter®/ Degauss: Press button [2] to toggle between ViewMeter and Degauss.

ViewMeter displays the frequency signal input (horizontal scan and refresh rate) coming from the graphics card in your computer. *See your video card's user guide for more details.*

(Input selection) : To switch between a computer connected to the D-Sub port (A) and a computer connected to the BNC ports (B), press [▼] or [▲].

Degauss removes the build-up of magnetic fields that can affect color purity and convergence. Press the [2] button to degauss.

Memory Recall: If the monitor is operating in a factory preset timing mode (see page 15), this control will reset the image to the factory preset size, position and geometry settings. If the monitor is operating in 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 adjusts horizontal lines caused by interference between the phosphor dot pitch and scanning line pitch. [▲] increases the amount of adjustment, [▼] decreases the amount of adjustment.
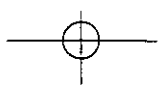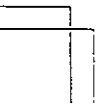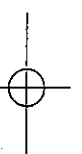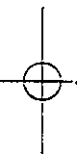
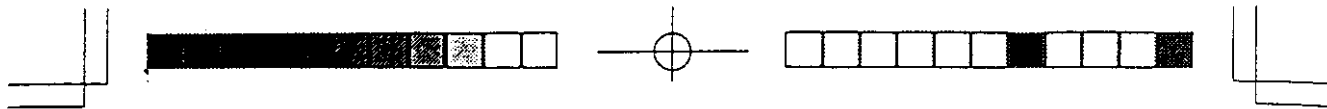CAUTION: Over-correction of moire can affect the picture quality.

Vertical Moire adjusts vertical lines caused by interference between the phosphor dot pitch and video pattern. [▲] increases the amount of adjustment, [▼] decreases the amount of adjustment.

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

Changes are automatically saved when [1] is pressed.

⊞ ⊞ Convergence: Press [2] button to toggle between Horizontal Convergence and Vertical Convergence controls. Convergence is affected by geomagnetism. Use this function when convergence error occurs after moving the monitor or changing the screen angle.

> These convergence adjustments cannot be made until monitor operation has stabilized.

⊞ **Horizontal Convergence** Horizontal convergence of the image (color fringing) can be adjusted.
NOTE: If the [▼] and [▲] buttons are pressed at the same time on the H. Convergence adjustment screen, the standard level (50) will be set. Press the [▲] button to move red to the right and blue to the left. Press the [▼] button to move red to the left and blue to the right.

⊞ **Vertical Convergence** Vertical convergence of the image (color fringing) can be adjusted.
NOTE: If the [▼] and [▲] buttons are pressed at the same time on the V. Convergence adjustment screen, the standard level (50) will be set. Press the [▲] button to move red downwards and blue upwards. Press the [▼] button to move red upwards and blue downwards.

⊟ ⊟ Linearity Center / Edge: Press [2] button to toggle between Linearity Center and Linearity Edge controls.

⊟ **Linearity Center:** The image can be adjusted for vertical linearity in the center.
NOTE: If the [▼] and [▲] buttons are pressed at the same time on the Linearity - C adjustment screen, the standard level will be set. Press the [▲] button to make the center linearity narrower. Press the [▼] button to make the center linearity wider.

⊟ **Linearity Edge:** The image can be adjusted for vertical linearity in the edge.

NOTE: If the [▼] and [▲] buttons are pressed at the same time on the Linearity - E adjustment screen, the standard level will be set. Press the [▲] button to make the bottom linearity wider. Press the [▼] button to make the top linearity narrower.

?⌣ ⌷⌷⌷ OSD Language / Position:

?⌣ **Language Selection:** allows the user to choose the language in which the control names are displayed.

⌷⌷⌷ **OSD Position:** Press the [2] button to re-position the OSD.
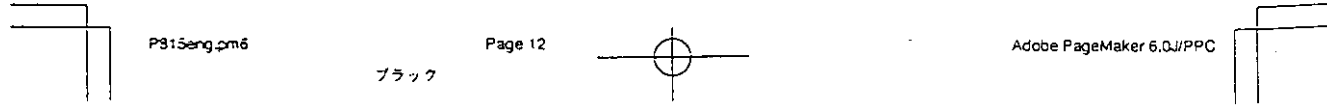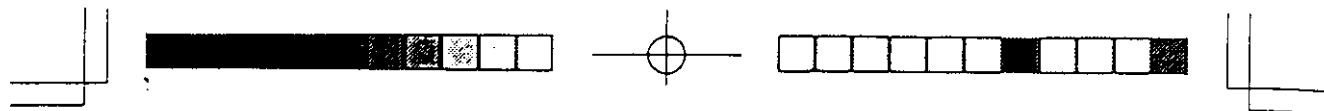
Self-Test: When there is no signal input (because the cable is not connected or no video signal is coming from the computer), or the monitor is in power saving mode, the self-test screen can be called by pressing the [1], [▼], [▲], or [2] button. An error message screen appears when the horizontal or vertical sync signal is outside of the permitted range.

USB OnView® Host Software Controls
(for Windows® 98 & Windows 95 OSR-2.1)

You can use your computer mouse to adjust the ViewSonic® USB OnView Host Software Controls as an alternative to using many of the traditional OnView controls (pages 8-12) to adjust the screen image of your monitor. NOTE : Before you can use these USB software features, you must first install the ViewSonic® USB OnView Host Software driver (see page 7).
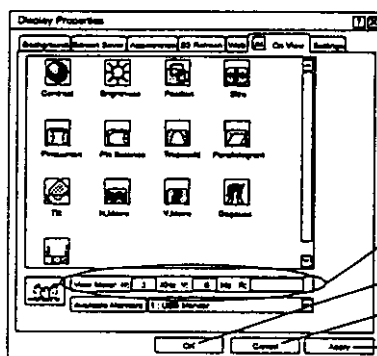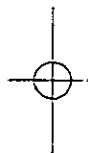
ViewMeter®

Save Changes

Abort Changes

Apply Changes

USB On View Host Main Menu

●	Contrast Control	▱	Parallelogram Control
☼	Brightness Control	◈	Tilt Control
▦	H / V Position Control	▨	Horizontal Moire Reduction
▦	H / V Size Control	▨	Vertical Moire Reduction
▥	Pincushion Control	♬	Degauss
▱	Pin-Balance Control	⊹	ViewMatch® Color Control
▱	Trapezoid Control		

USB On View Host Main Menu ICON
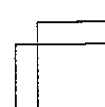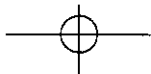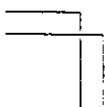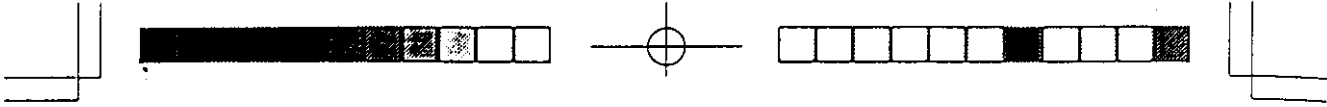
USB OnView® Host Software Controls (Continued)

Contrast Control ——————— Brightness Control
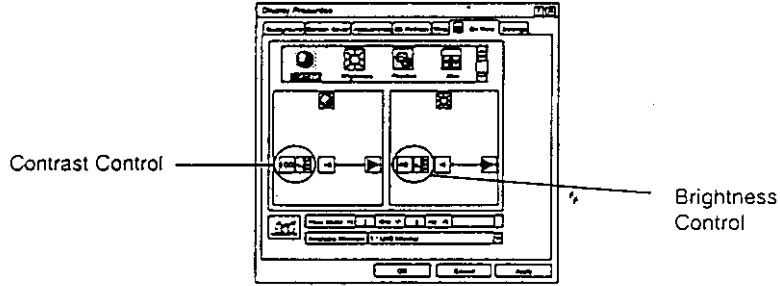
Contrast / Brightness Control Sub-Menu

Vertical Position Control ————— Vertical Size Control

Horizontal Position Control ————— Horizontal Size Control
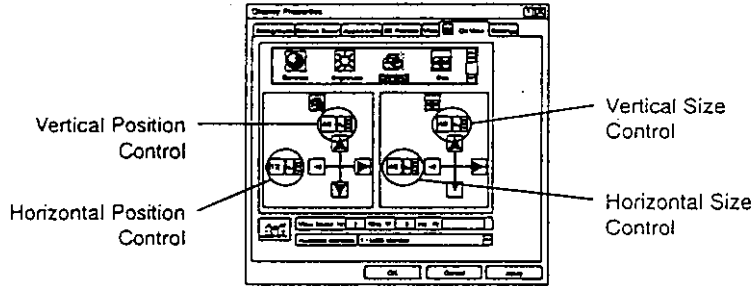
Alignment Control Sub-Menu

Pincushion Control ————— PinBalance Control
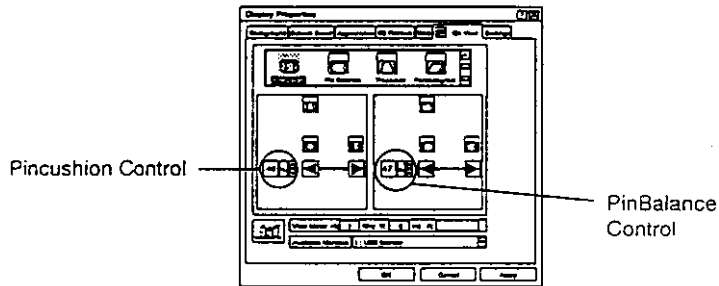
Geometry Control Sub-Menu

Red Control
Green Control
Blue Control

Factory Preset Color Temperatures ————

User Color ————
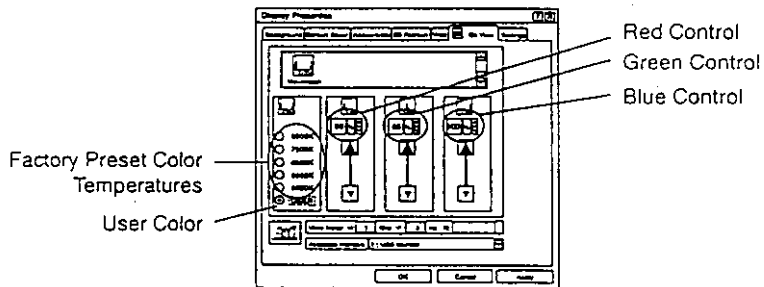
ViewMatch® Color Control Sub-Menu
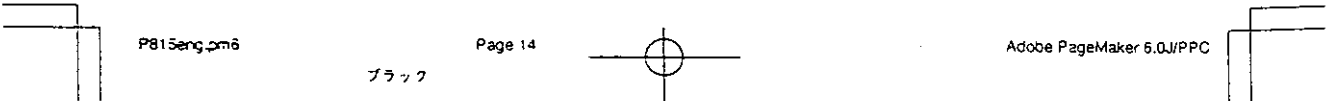
Other Information

Specifications

CRT	Type	21" (20.0" viewable diagonal), 0.25 mm Dot Pitch, 90° deflection
	Glass Surface	SuperClear™, ARAG® (anti-reflection, anti-glare)
Input Signal	Video	RGB Analog, HV Separated (TTL), Composite, Sync-on-green,
	Sync	f_H: 30 - 115 kHz, f_V: 50 - 180 Hz
Compatibility	PC	Up to 1600 × 1280 NI[3]
	Macintosh®[1]	Power Macintosh®, up to 1600 × 1200
Maximum Refresh Rates[2]	1600 × 1280 NI @	85 Hz 1024 × 768 NI @ 142 Hz
	1600 × 1200 NI @	91 Hz 800 × 600 NI @ 180 Hz
	1280 × 1024 NI @	106 Hz 640 × 480 NI @ 180 Hz
	1152 × 870 NI @	125 Hz 640 × 400 NI @ 180 Hz
Power	Voltage	AC 100 - 240 VAC 50 / 60 Hz
Display Area	Default	396 mm (H) × 297 mm (V) (Typical)
	Full Scan	406 mm (H) × 304 mm (V) (Depends on signal timing)
Operating Conditions	Temperature	41 °F to 95 °F (5 °C to 35 °C)
	Humidity	5% to 90% (no condensation)
	Altitude	To 10,000 feet
Storage Conditions	Temperature	-4 °F to +140 °F (-20°C to +60°C)
	Humidity	5% to 90% (no condensation)
	Altitude	To 40,000 feet
Dimensions	Physical (monitor)	498 mm (W) × 501.5 mm (H) × 486 mm (D) 19.6 " (W) × 19.7 " (H) × 19.1 " (D)
Weight	Net	27.5 kg (60.6 lbs)
Regulations		UL, CSA, TüV/GS, CE, SEMKO, NEMKO, DEMKO, FIMKO, NOM, CCIB, S-Mark, DHHS, FCC-B, IC-B, VCCI-B, BCIQ,
Others		TCO '99, MPR II, ENERGY STAR®, ISO9241-3
Power saving modes	On	<148 W typical (green LED)
	DPMS™ Stand By	< 10 W (orange LED)
	DPMS Suspend	< 10 W (orange LED)
	DPMS Off	< 3 W (orange LED)

Preset Timing Modes (The monitor has been pre-adjusted to VESA® 1600 × 1200 @ 85 Hz)

|					
VGA	640 ×	480 @ 60 Hz	VESA	1280 ×	1024 @ 75 Hz, 85 Hz
VESA	800 ×	600 @ 85 Hz	VESA	1600 ×	1200 @ 75 Hz, 85 Hz
VESA	1024 ×	768 @ 85 Hz	Macintosh®	1152 ×	870 @ 75 Hz

[1] Macintosh computer requires ViewSonic® Macintosh adapter. To order an adapter, contact customer support. See the back cover of this manual. You will need to provide the serial number on your monitor.

[2] 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.

[3] Up to 1600 × 1200 for FCC class B.
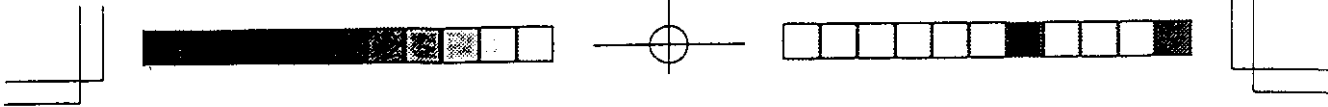
Troubleshooting

No power
- Press Power button ON.
- Make sure that A/C power cord is securely connected to the back of the monitor and to a power outlet.
- Plug another electric device (like a radio) into power outlet to verify that outlet is supplying proper voltage.

Power on but no screen image
- Make sure that video cable provided for 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 the 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 a different outlet. If using surge protector, reduce number of devices plugged in.
- Check ViewMeter® to verify that the refresh rate (vertical frequency) is 75 Hz or higher. See the Specifications section.
- Make sure that graphics card in your computer can use 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 that it is securely connected. Loose pins in the cable connector could cause a bad connection.
- Connect monitor to another computer.
- Turn monitor OFF, wait one minute, then turn ON again. *Do this only once.*
- If you have an older graphics card, contact customer support for a non-DDC adapter.

Entire screen image scrolls (rolls) vertically
- Make sure that 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.

USB (Universal Serial Bus) functions do not work
- Make sure that USB cable is securely and correctly installed.
- Make sure that the appropriate USB-supported operating system is installed in your computer.
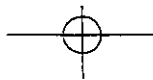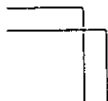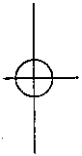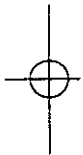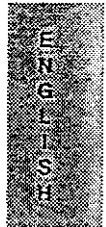
Cleaning the Monitor

- 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 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.