

Trinitron® Multimedia Computer Display

Operating Instructions



CPD-101VS
CPD-201VS

Owner's Record

The model and serial numbers are located at the rear of the unit. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your dealer regarding this product.

Model No. _____

Serial No. _____

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

Dangerously high voltages are present inside the set. Do not open the cabinet. Refer servicing to qualified personnel only.

FCC Notice

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.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

NOTICE

This notice is applicable for USA/Canada only.

If shipped to USA/Canada, install only a UL LISTED/CSA LABELLED power supply cord meeting the following specifications:

SPECIFICATIONS

Plug Type	Nema-Plug 5-15p
Cord	Type SVT or SJT, minimum 3 × 18 AWG
Length	Maximum 15 feet
Rating	Minimum 7 A, 125 V

NOTICE

Cette notice s'applique aux Etats-Unis et au Canada uniquement.

Si cet appareil est exporté aux Etats-Unis ou au Canada, utiliser le cordon d'alimentation portant la mention UL LISTED/CSA LABELLED et remplissant les conditions suivantes:

SPECIFICATIONS

Type de fiche	Fiche Nema 5-15 broches
Cordon	Type SVT ou SJT, minimum 3 × 18 AWG
Longueur	Maximum 15 pieds



As an ENERGY STAR Partner, Sony Corporation has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

ENERGY STAR is a U.S. registered mark.

Declaration of Conformity

Model Number : CPD-101VS
CPD-201VS

Trade Name : SONY

Responsible party :
Sony Electronics Inc.

Address :

1 Sony Drive, Park Ridge,
New Jersey 07656 U.S.A.

Telephone number :
201-930-6970

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

INFORMATION

This product complies with Swedish National Council for Metrology (MPR) standards issued in December 1990 (MPR II) for very low frequency (VLF) and extremely low frequency (ELF).

INFORMATION

Ce produit est conforme aux normes du Swedish National Council for Metrology de décembre 1990 (MPR II) en ce qui concerne les fréquences très basses (VLF) et extrêmement basses (ELF).

Hinweis

Dieses Gerät erfüllt bezüglich tieffrequenter (very low frequency) und tiefstfrequenter (extremely low frequency) Strahlung die Vorschriften des „Swedish National Council for Metrology (MPR)“ vom Dezember 1990 (MPR II).

INFORMACIÓN

Este producto cumple las normas del Consejo Nacional Sueco para Metrología (MPR) emitidas en diciembre de 1990 (MPR II) para frecuencias muy bajas (VLF) y frecuencias extremadamente bajas (ELF).

Dieses Gerät entspricht den folgenden europäischen EMV-Vorschriften für Betrieb in Wohngebieten, gewerblicher Gebieten und Leichtindustriegebieten.

EN55022/1994 Klasse B

EN50082-1/1992

EN61000-3-2/1995

Hinweise

- Aus ergonomischen Gründen wird empfohlen, die Grundfarbe Blau nicht auf dunklem Untergrund zu verwenden (schlechte Erkennbarkeit, Augenbelastung bei zu geringem Zeichenkontrast).
- Aus ergonomischen Gründen (flimmern) sollten nur Darstellungen bei Vertikalfrequenzen ab 70 Hz (ohne Zeilensprung) verwendet werden.
- Die Konvergenz des Bildes kann sich auf Grund des Magnetfeldes am Ort der Aufstellung aus der korrekten Grundeinstellung verändern. Zur Korrektur empfiehlt es sich deshalb, die Regler an der Frontseite für Konvergenz so einzustellen, daß die getrennt sichtbaren Farblinien für Rot, Grün und Blau bei z.B. der Darstellung eines Buchstabens zur Deckung (Konvergenz) gelangen. Siehe hierzu auch die Erklärungen zu Konvergenz.

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ください。

本製品は、「高調波ガイドライン適合品」であり、通商産業省資源エネルギー庁公益事業部作成の家電・汎用品高調波抑制対策ガイドラインを満たしていません。

本製品は社団法人日本電子工業振興協会が定めた「表示装置の静電気および低周波電磁界」に関するガイドラインに適合しております。

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Introduction

Congratulations on your purchase of a Sony Multimedia CPD-101VS/201VS display!

This display incorporates over 25 years of Sony experience with Trinitron display technology, ensuring excellent performance and outstanding reliability.

This display's wide scan range (30 – 70 kHz), together with Digital Multiscan Technology, allows it to sync to any video mode from standard VGA through VESA 1024 × 768 at 85 Hz (VESA 1280 × 1024 at 60 Hz).

In addition, its four factory-preset color modes give you unprecedented flexibility in matching on-screen colors to hard copy printouts.

Furthermore, it features:

- **Graphic Picture Enhancement function**
improves monitor performance to match the application that you are running.
With the GPE AUTO MODE, you can use “IntelliLight” compatible software which will maximize the color and brightness of a window running a multimedia presentation without affecting the brightness and contrast of text based applications.
- **Integrated stereo speakers with Bass Boost**
enables you to enjoy excellent sound reproduction via 3.0 W stereo speakers.

All together, CPD-101VS/201VS delivers incredible performance with the quality and support you can expect from Sony.

Plug and play

This display complies with DDC™1 and DDC2B which are the Display Data Channel (DDC) standards of VESA.

When a DDC1 host system is connected, the display synchronizes with the V. CLK in accordance with the VESA standards and outputs the EDID (Extended Display Identification Data) to the data line.

When a DDC2B host system is connected, the display automatically switches to DDC2B communication.

DDC™ is a trademark of Video Electronics Standard Association.

Precautions

Installation

- Prevent internal heat build-up by allowing adequate air circulation. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.
- Do not install the unit near heat sources such as radiators or air ducts, nor in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- Do not place the unit near equipment which generates magnetism, such as a converter or high voltage power lines.

Maintenance

- Clean the cabinet, glass panel and controls with a soft cloth lightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent, such as alcohol or benzine.
- Do not rub, touch, or tap the surface of the screen with sharp or abrasive items, like a ball point pen or a screwdriver, as this type of contact may result in a scratched picture tube.

Transportation

- Do not discard the carton and packing materials. When transporting the unit, use these packing materials so that the unit is properly packaged.
- When carrying the unit, be careful not to get your hands caught between the display and the tilt-swivel.

Continued to the next page →

Warning on Power Connection

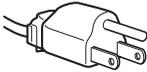
- Use the supplied power cord.

For the customers in U.S.A.

If you do not do this, this display will not conform to mandatory FCC standards.

For the customers in UK.

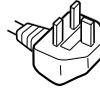
If you use the display in the UK, please use the supplied UK cable with the UK plug.



for 100 to 120 V AC



for 220 to 240 V AC



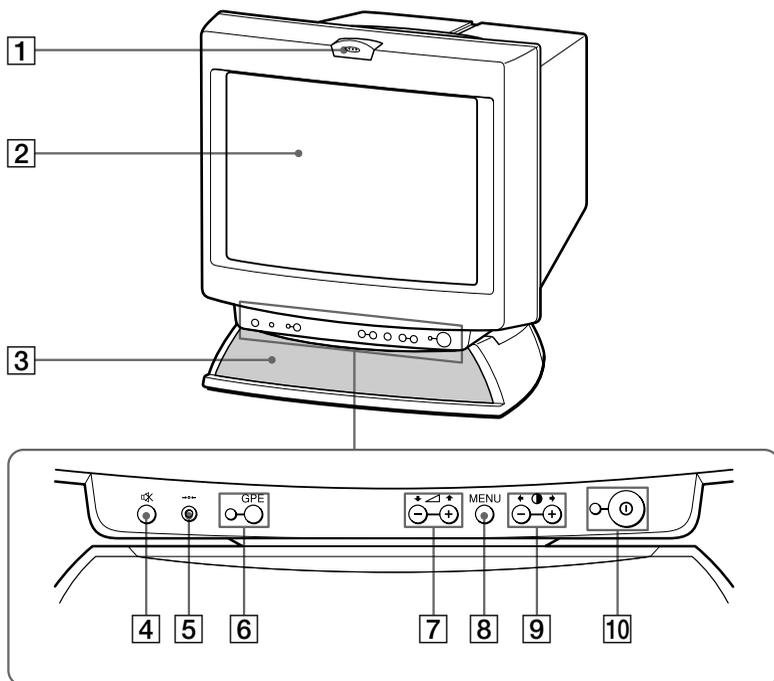
for 240 V AC only

- Before disconnecting the power cord, wait at least 30 seconds after turning off the power switch to discharge static electricity from the CRT display surface.
- After the power has been turned on, the CRT is demagnetized for approximately 5 seconds. This generates a strong magnetic field around the bezel which may affect the data stored on magnetic tape or disks near the bezel. Place such magnetic recording equipment and tapes/disks at a distance from this unit.

<p>The socket-outlet shall be installed near the equipment and shall be easily accessible.</p>
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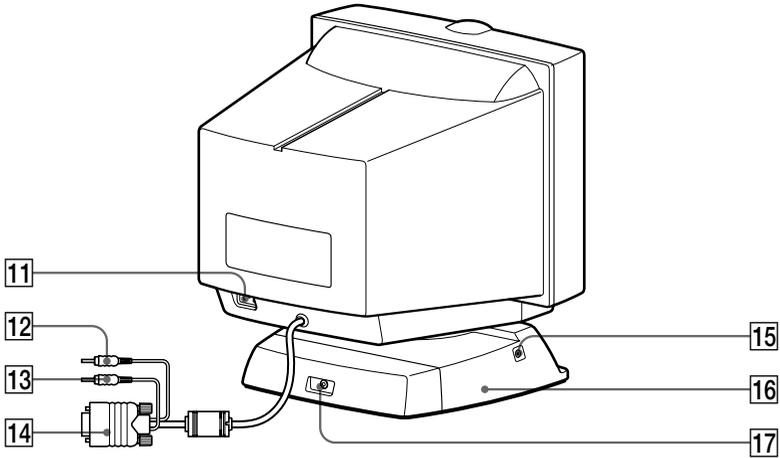
Functions of Controls

Front



- | | | |
|-----------|-----------------------------------|---|
| 1 | Microphone | — |
| 2 | Screen | — |
| 3 | Stereo speakers | — |
| 4 | Mute button | Mutes sound (page 20). |
| 5 | Reset switch | Resets adjustments to factory setting (page 31). |
| 6 | GPE button and indicator | Sets GPE mode (page 32). |
| 7 | Volume +/- buttons | Adjust speaker volume (page 19). Use to select items in an OSD. |
| 8 | MENU button | Displays the OSD menu. |
| 9 | Contrast +/- buttons | Adjust picture contrast (page 21). Use to adjust items in an OSD. |
| 10 | Power switch and indicator | Turns the display on and off. |

Rear



- | | | |
|-----------|------------------------------------|--|
| 11 | AC IN connector | Connect the supplied power cord (page 13). |
| 12 | 🎧 Audio plug (green) | Connect to the computer's audio output (page 12). |
| 13 | 🎤 MIC plug (red) | Connect to the computer's microphone input (page 12). |
| 14 | 📺 Video signal cable (blue) | Connect to the computer's video output (page 12). |
| 15 | 🎧 Headphones jack | Connect standard mini-plug headphones (not supplied). The speakers are turned off when headphones are connected. |
| 16 | Tilt-Swivel | Adjusts the angle of the display (page 15). |
| 17 | Subwoofer output jack | Connect to a subwoofer's input (not supplied). |

Getting Started

Before using this display, please make sure that the following items are included in your package:

- **Multimedia computer display (1)**
- **Power cord (1)**
- **Warranty card (1)**
- **Operating instructions manual (1)**
- **Windows Monitor Information Disk and its instruction manual (1)**

Tip

This display will sync with any IBM or compatible system equipped with VGA¹⁾ or greater graphics capability. Although this display will sync to other platforms running at horizontal frequencies between 30 and 70 kHz, including Macintosh²⁾ and Power Macintosh systems, a cable adapter is required. Please consult Sony Technical Support for advice on which adapter is suitable for your needs.

- 1) VGA is a trademark of IBM Corporation.
- 2) Macintosh is a trademark of Apple Computer Inc.

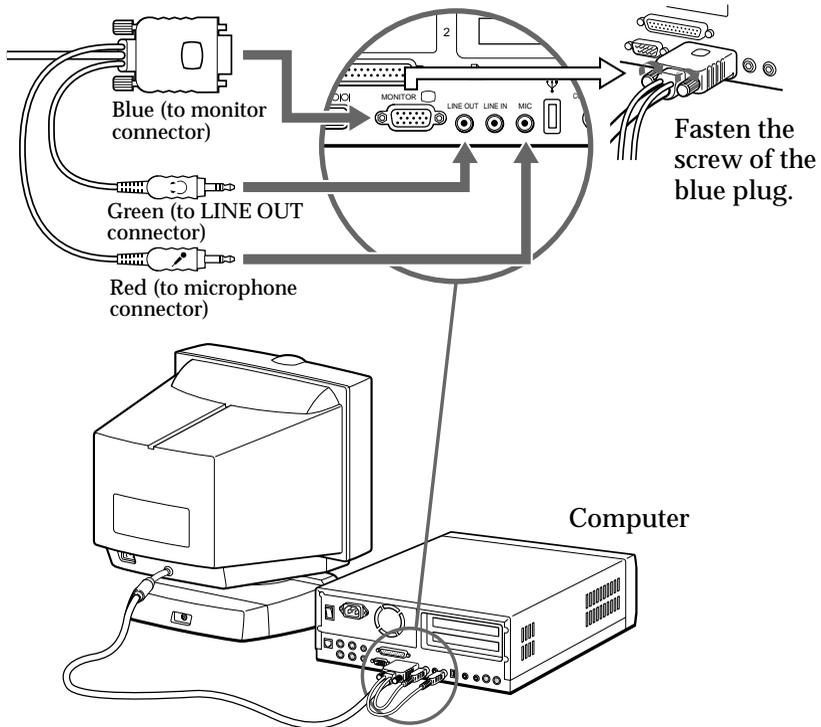
Continued to the next page ➔

Installation

■ Step 1: Connect the computer

With the computer switched off, connect the video signal cable to the display (VGA) connector on your computer. If your computer supports the DDC plug-and-play standard, this connection will enable DDC communication between the display and the computer.

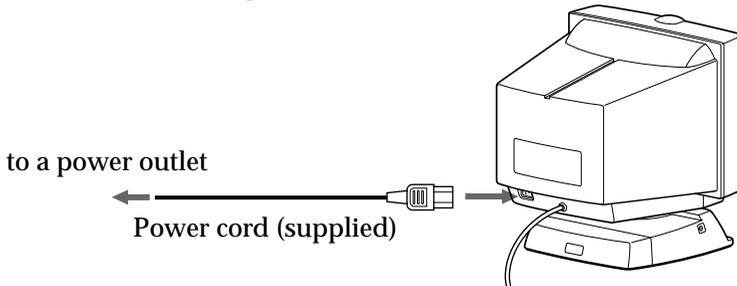
The video signal cable is combined with audio and microphone cables. If your computer is equipped with sound capability, connect the audio (green) and microphone (red) plugs to appropriate jacks located on your computer.



✓ **Note on handling the video signal cable**
Do not touch the pins of the video signal cable.

■ Step 2: Connect the power cord

With the display switched off, connect the power cord to the display and the other end to a power outlet.



■ Step 3: Turn on the display, and then your computer.

For proper Plug and Play recognition, turn on the display before you turn on your computer.

✓ Note on Warning Messages

If there is something wrong with the input signal, one of the following messages appears.

“OUT OF SCAN RANGE”

This indicates that the input signal is not supported by the display's specifications.

“NO INPUT SIGNAL”

This indicates that video signal is missing.

To solve these problems, see “Troubleshooting” on page 37.

■ Step 4: If necessary...

Adjust the user controls according to your personal preference.

The installation of your display is complete. Enjoy your display.

Using Your Display

Preset and user modes

The Multimedia CPD-101VS/201VS display has factory preset modes for the 9 most popular industry standards for true “plug and play” capability.

For less common modes, its Digital Multiscan Technology will perform all of the complex adjustments necessary to ensure a high quality picture for any timing between 30 and 70 kHz.

NO.	Resolution (dots × lines)	Horizontal Frequency	Vertical Frequency
1	640 × 400	31.5 kHz	70 Hz
2	640 × 480	31.5 kHz	60 Hz
3	640 × 480	43.3 kHz	85 Hz
4	800 × 600	37.9 kHz	60 Hz
5	800 × 600	46.9 kHz	75 Hz
6	1024 × 768	60.0 kHz	75 Hz
7	1024 × 768	68.7 kHz	85 Hz
8	1152 × 864	54.8 kHz	60 Hz
9	1280 × 1024	64.0 kHz	60 Hz

✓ **Note for Windows® 95/98 users**

To maximize the potential of your display, install the new model information file from the supplied Windows® Monitor Information Disk onto your PC.

This display complies with the “VESA DDC” Plug & Play standard. If your PC/graphics board complies with DDC, select “Plug & Play Monitor (VESA DDC)” or this display’s model name as the monitor type in the “Control Panel” of Windows® 95/98. If your PC/graphics board has difficulty communicating with this display, load the Windows® Monitor Information Disk and select this display’s model name as the monitor type.

Windows® is a registered trademark of Microsoft Corporation in the United States and other countries.

✓ **Note on recommended horizontal timing conditions**

Horizontal sync width should be more than 1.0 µsec.

Horizontal blanking width should be more than 3.6 µsec.

■ To enter new timings

When using a video mode that is not one of the 9 factory preset modes, some fine tuning may be required to optimize the display to your preferences. Simply adjust the display according to the adjustment instructions. The adjustments will be stored automatically and recalled whenever that mode is used.

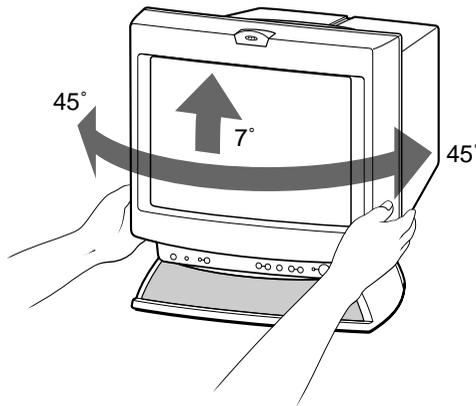
A total of 16 user-defined modes can be stored in memory. If a 17th mode is entered, it will replace the first.

Using the tilt-swivel

With the tilt-swivel, this unit can be adjusted to be viewed at your desired angle within 90° horizontally and 7° vertically.

To turn the unit vertically and horizontally, hold it at its bottom with both hands.

Be careful not to get your hands caught between the display and the tilt-swivel.

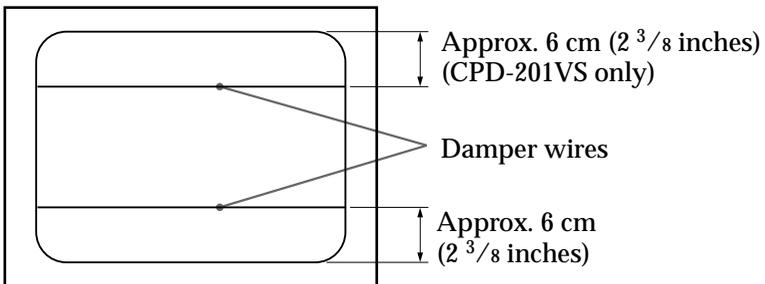


Damper wire

Using a white background, a very thin horizontal line on the screen may be visible as shown below. This line is the damper wire.

The Trinitron tube has a vertically striped Aperture Grille inside. The Aperture Grille allows more light to pass through to the screen giving the Trinitron CRT more color and brightness.

The damper wire is attached to the Aperture Grille to prevent vibration of the Aperture Grille wire so that the screen image is constantly stable.



Adjustments

When one of the preset-type signals is input, no picture adjustment is necessary.

You can, however, adjust the picture to your preference by following the procedure described below.

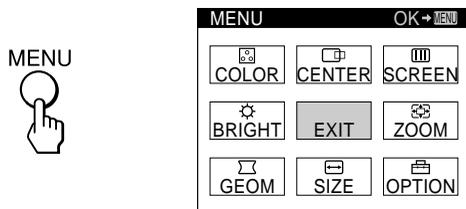
To adjust the display, turn on the display and computer.

Introducing the On-Screen Display

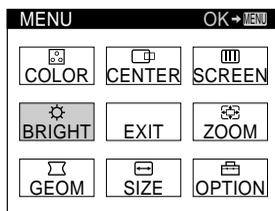
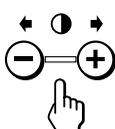
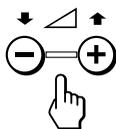
Beyond sound volume and picture contrast adjustment, most adjustments are made using the OSD menu system.

Using the OSD menu

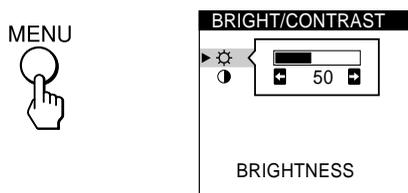
1. Press the MENU button to display the MENU OSD.



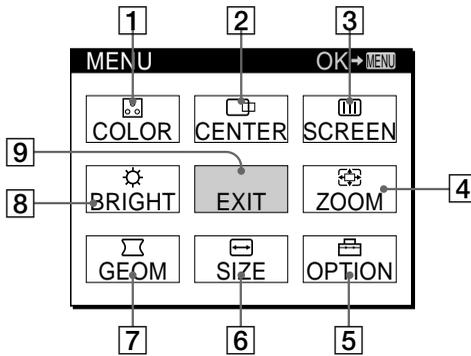
2. Use the the four arrow (↑/↓/←/→) buttons (◁ +/- and ● +/- buttons) to select the item you want to adjust.
Change the item from blue to yellow.



3. Press the MENU button again.
The item is selected and the item's OSD appears.



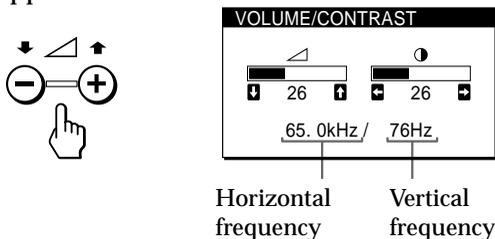
Summary of each item



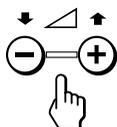
- 1** COLOR
Selects the color temperature.
- 2** CENTER
Adjusts the picture centering.
- 3** SCREEN
Reduces the moiré pattern.
Adjusts the vertical and horizontal convergence (CPD-201VS only).
- 4** ZOOM
Adjusts the picture size in horizontal and vertical direction proportionally.
- 5** OPTION
Activates bass-boost and screen degauss, changes the OSD position and selects the OSD language.
- 6** SIZE
Adjusts the picture size. You can adjust the size in horizontal or vertical direction individually.
- 7** GEOM
Adjusts the picture rotation, pincushion, etc.
- 8** BRIGHT
Adjusts the picture brightness and contrast.
- 9** EXIT
Closes the OSD menu.

Adjusting the sound volume

1. Press the \triangleleft + or - button.
The VOLUME/CONTRAST OSD appears.
The horizontal and vertical frequencies for each input signal received appear.



2. Press the \triangleleft +/- buttons to adjust volume.
+ to increase volume
- to decrease volume



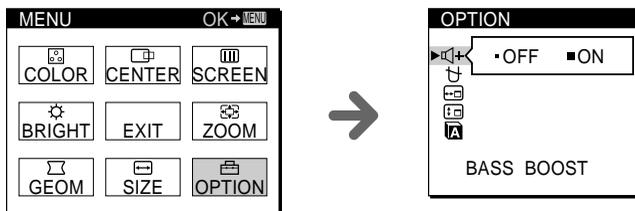
The VOLUME/CONTRAST OSD disappears three seconds after you release the buttons.

Tips

- Adjust the volume while listening to the sound.
- Excessively high volume may cause howling.

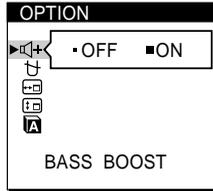
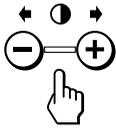
■ To activate Bass Boost for rich bass sound

1. Select OPTION in the MENU OSD and press the MENU button.
The OPTION OSD appears.



Continued to the next page →

2. Select BASS BOOST with the **↑/↓** buttons.
3. Press the **→** button to select ON.
To cancel bass boost, press the **←** button to select OFF.



To exit the OSD

Press the MENU button again.



Tip

If you don't touch any buttons, the OSD automatically disappears after 30 seconds.

■ To mute the sound

Press the **🔇** button. The **🔇** indicator appears while the sound is muted.



Press again to cancel muting.

You can cancel muting also by pressing the **△ +** button.



Tip

🔇 appears instead of **△** on the VOLUME/CONTRAST OSD while the sound is muted.

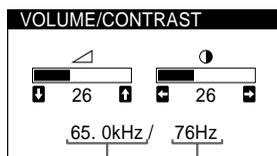
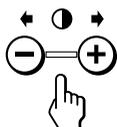
Adjusting the picture contrast

The adjustment data becomes the common setting for all input signals.

1. Press the **⏪** + or - button.

The VOLUME/CONTRAST OSD appears.

The horizontal and vertical frequencies for each input signal received appear.



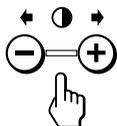
Horizontal
frequency

Vertical
frequency

2. Press the **⏪** +/- buttons to adjust the picture contrast.

+ for more contrast

- for less contrast



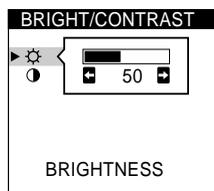
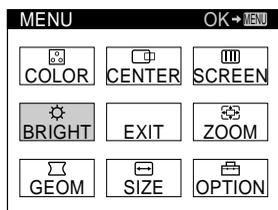
The VOLUME/CONTRAST OSD disappears three seconds after you release the buttons.

Adjusting the picture brightness

The adjustment data becomes the common setting for all input signals.

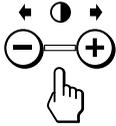
1. Select BRIGHT in the MENU OSD and press the MENU button.

The BRIGHT/CONTRAST OSD appears.



Continued to the next page →

- Press the **←/→** buttons to adjust the picture brightness.
→ for more brightness
← for less brightness



To exit the OSD

Press the MENU button again.



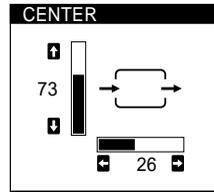
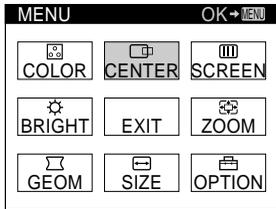
Tip

If you don't touch any buttons the OSD automatically disappears after 30 seconds.

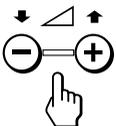
Adjusting the picture centering

The adjustment data becomes the individual setting for each input signal received.

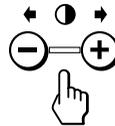
- Select CENTER in the MENU OSD and press the MENU button. The CENTER OSD appears.



- For vertical adjustment
Press the **↑/↓** buttons.
↑ to move up
↓ to move down



- For horizontal adjustment
Press the **←/→** buttons.
→ to move right
← to move left



To exit the OSD

Press the MENU button again.

 **Tip**

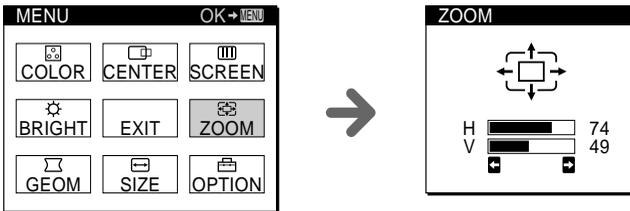
If you don't touch any buttons, the OSD automatically disappears after 30 seconds.

Adjusting the picture size

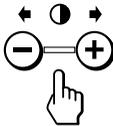
The adjustment data becomes the individual setting for each input signal received.

To adjust the picture size in horizontal and vertical direction proportionally

1. Select ZOOM in the MENU OSD and press the MENU button. The ZOOM OSD appears.

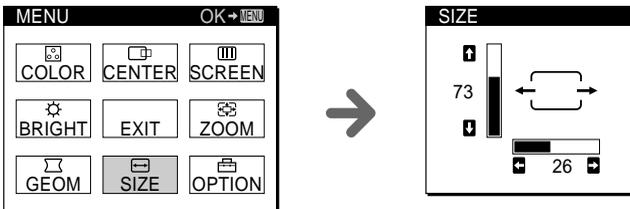


2. Press the \leftarrow/\rightarrow buttons for the best size.



To adjust the picture size in horizontal or vertical direction

1. Select SIZE in the MENU OSD and press the MENU button. The SIZE OSD appears.



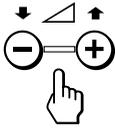
Continued to the next page →

2. For vertical adjustment

Press the **↑/↓** buttons.

↑ to increase

↓ to decrease

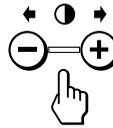


For horizontal adjustment

Press the **←/→** buttons.

→ to increase

← to decrease



To exit the OSD

Press the MENU button again.



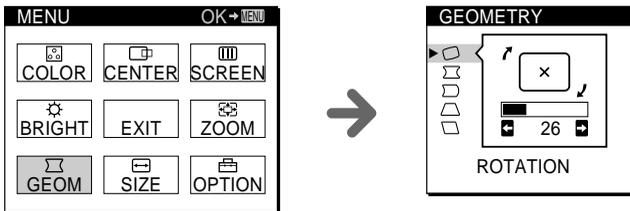
Tip

If you don't touch any buttons, the OSD automatically disappears after 30 seconds.

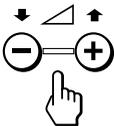
Adjusting the geometry

The rotation adjustment data becomes the common setting for all input signals. All other data becomes the individual setting for each input signal received.

1. Select GEOM in the MENU OSD and press the MENU button. The GEOMETRY OSD appears.



2. Press the **↑/↓** buttons to select the item you want to adjust.



3. Press the **←/→** buttons to adjust.
- | | | |
|--------------------|---|---|
| ROTATION | → to rotate the picture clockwise | ← to rotate counterclockwise |
| |  |  |
| PINCUSHION | → to bend both sides outward | ← to bend inward |
| |  |  |
| PIN BALANCE | → to bend both sides to the right | ← to the left |
| |  |  |
| KEYSTONE | → to widen the top | ← to shrink the top |
| |  |  |
| KEY BALANCE | → to move the top to the right | ← to the left. |
| |  |  |

To exit the OSD

Press the MENU button again.

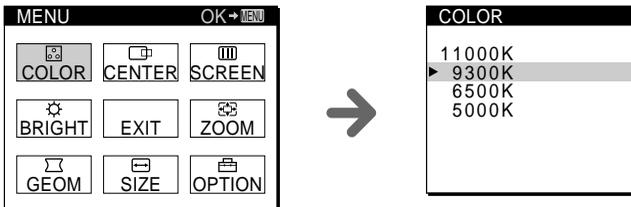
 **Tip**

If you don't touch any buttons, the OSD automatically disappears after 30 seconds.

Selecting the color temperature

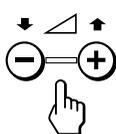
The selected color temperature becomes the common setting for all input signals.

1. Select COLOR in the MENU OSD and press the MENU button. The COLOR OSD appears.



Continued to the next page →

2. Select the desired color temperature with the \uparrow/\downarrow buttons.



11000K for the brightest white
 9300K for TV white
 6500K for video monitor white
 5000K for printing paper white

To exit the OSD

Press the MENU button again.

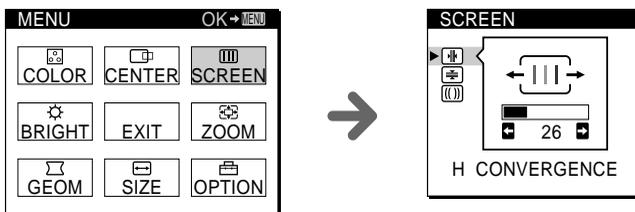


Tip
 If you don't touch any buttons, the OSD automatically disappears after 30 seconds.

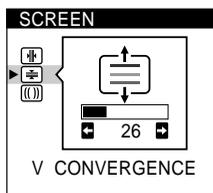
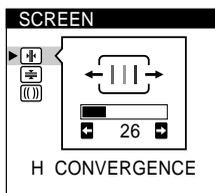
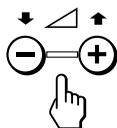
Adjusting the convergence (CPD-201VS only)

Adjust the convergence to eliminate red or blue shadows that may appear around letters or lines on the screen.
 The adjustment data becomes the common setting for all input signals.

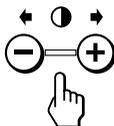
1. Select SCREEN in the MENU OSD and press the MENU button.
 The SCREEN OSD appears.



2. Select H (horizontal) CONVERGENCE or V (vertical) CONVERGENCE with the \uparrow/\downarrow buttons.



- Press the ←/→ buttons to shift the red or blue shadows horizontally or vertically until they disappear.



To exit the OSD

Press the MENU button again.

Tip

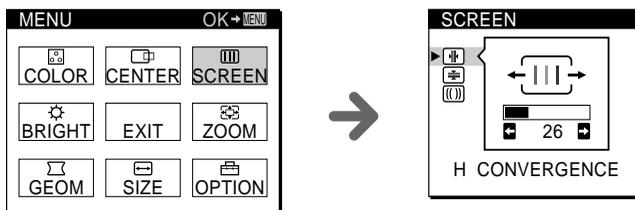
If you don't touch any buttons, the OSD automatically disappears after 30 seconds.

Adjusting the screen moiré

This adjustment is to eliminate wavy or elliptical lines that may appear on the screen.

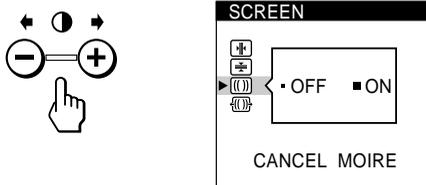
The adjustment data becomes the common setting for all input signals.

- Select SCREEN in the MENU OSD and press the MENU button. The SCREEN OSD appears. (The convergence icons appear for CPD-201VS only.)



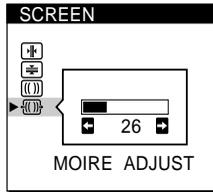
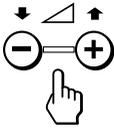
- Select CANCEL MOIRE with the ↑/↓ buttons.

- Press the → button to select ON. The MOIRE ADJUST icon appears under the CANCEL MOIRE icon.



Continued to the next page →

4. Press the  button to select MOIRE ADJUST.



5. Press the /  buttons to tune the moiré cancellation effect.

To exit the OSD

Press the MENU button again.



Tip

If you don't touch any buttons, the OSD automatically disappears after 30 seconds.



Note on the moiré cancellation effect

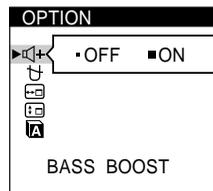
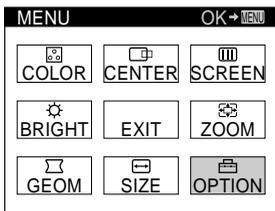
When CANCEL MOIRE is set to ON, the picture may appear fuzzy. If you set CANCEL MOIRE to OFF, the picture may be clearer, but the moiré will reappear.

Activating screen degauss

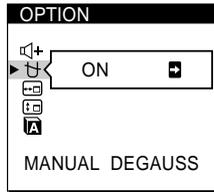
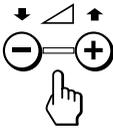
The display screen is automatically degaussed (demagnetized) when the power is turned on.

To manually degauss the screen, do as follows. If you need to degauss the screen a second time, wait at least 20 minutes for the best result.

1. Select OPTION in the MENU OSD and press the MENU button. The OPTION OSD appears.



2. Select MANUAL DEGAUSS with the \uparrow/\downarrow buttons.



3. Press the \rightarrow button to activate the degauss cycle.

To exit the OSD

Press the MENU button again.

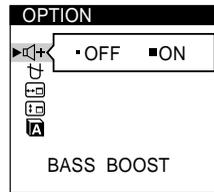
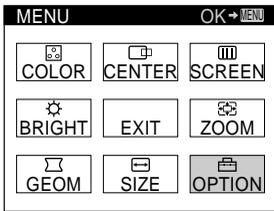


Tip

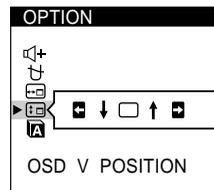
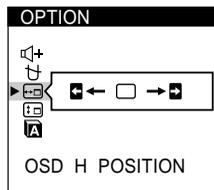
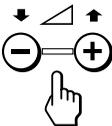
If you don't touch any buttons, the OSD automatically disappears after 30 seconds.

Changing the OSD position

1. Select OPTION in the MENU OSD and press the MENU button. The OPTION OSD appears.

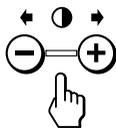


2. Select OSD H (horizontal) POSITION or OSD V (vertical) POSITION with the \uparrow/\downarrow buttons.



Continued to the next page \rightarrow

3. Press the \leftarrow/\rightarrow buttons to move the OPTION OSD to the desired position.



To exit the OSD

Press the MENU button again.

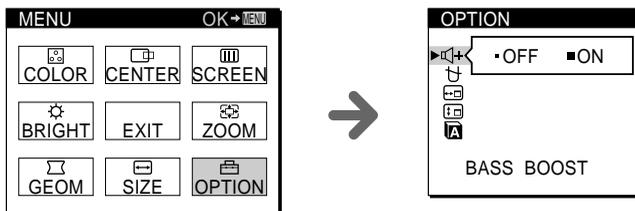


If you don't touch any buttons, the OSD automatically disappears after 30 seconds.

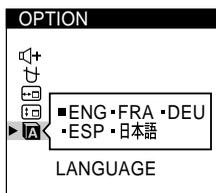
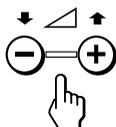
Selecting the OSD language

English, French, German, Spanish and Japanese version of the OSDs are available.

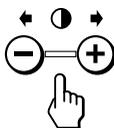
1. Select OPTION in the MENU OSD and press the MENU button. The OPTION OSD appears.



2. Select LANGUAGE with the \uparrow/\downarrow buttons.



3. Press the ←/→ buttons to select the desired language.



To exit the OSD

Press the MENU button again.



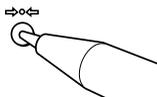
Tip

If you don't touch any buttons, the OSD automatically disappears after 30 seconds.

Resetting

■ To recall the factory settings for an individual adjustment item

1. Select the item you want to reset.
First select the OSD containing the item in the MENU OSD, and then select the item in the OSD.
2. Press the ⇐ button while the OSD of the item is on.
Only the item highlighted in yellow returns to the factory setting.



■ To recall the factory settings for the current video mode

Press the ⇐ button while no OSD is displayed.

■ To recall the factory settings for all modes

Press and hold the ⇐ button for more than two seconds.
All adjustments return to the factory settings.

Graphic Picture Enhancement (GPE)

Available GPE modes

Graphic Picture Enhancement is a function designed for your viewing comfort.

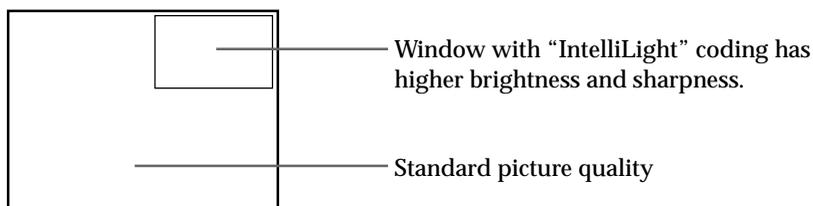
There are four GPE modes: AUTO, MODE 1, MODE 2 and OFF.

The default setting is “AUTO.”

■ AUTO mode

This mode is effective only with “IntelliLight™” compatible applications. When an image playback window with “IntelliLight” coding appears on the screen, the display senses the exact location and size of the window and applies a higher brightness and sharpness effect to images inside the window, while the rest of the screen remains at standard picture quality. For inquiries about “IntelliLight” and compatible software, check Sony’s web site (www.ita.sel.sony.com) or call Sony Technical Support (1-888-4SONYPC).

“IntelliLight™” is a trademark of Sony Electronics Inc.



✓ Note on the AUTO mode

If one of the four corners of the “IntelliLight” window is covered or if the window goes beyond the screen border, the GPE effect turns off.

✍ Tip

You can adjust the picture contrast or brightness of the screen outside of the “IntelliLight” window. The “IntelliLight” window always remains clear and sharp regardless of the adjustments made to the rest of the screen.

■ MODE 1

Higher contrast is applied across the entire screen. MODE 1 is designed to enhance still image presentations.

✓ Note on MODE 1

Whenever the screen resolution is changed, power saving activated, or power turned off, MODE 1 is cancelled and GPE returns to the AUTO mode.

■ MODE 2

Higher contrast and sharpness is applied across the entire screen. MODE 2 is designed to enhance graphic games and movie/video presentations.

✓ Note on MODE 2

Whenever the screen resolution is changed, power saving activated, or power turned off, MODE 2 is cancelled and GPE returns to the AUTO mode.

✍ Tip

MODE 2 may produce ghost images when displaying text oriented applications. In this case, select the AUTO or OFF mode.

■ GPE OFF mode

Screen sharpness and brightness are set to standard quality without any additional enhancements. This mode is suited for text-based applications.

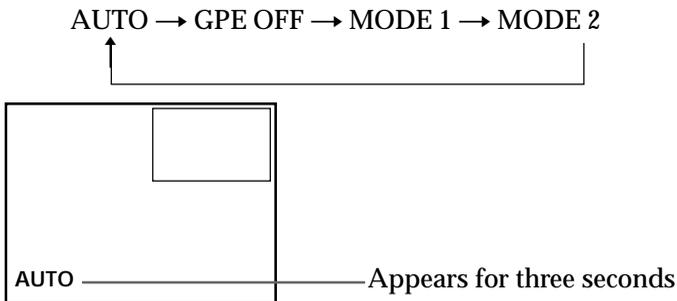
✓ Note on the GPE OFF mode

Once OFF mode is selected, GPE status stays in the OFF mode until you manually select other GPE modes.

Selecting the GPE mode

Press the GPE button repeatedly until the screen message of the desired mode is displayed.

Each time you press the GPE button, the GPE mode changes as follows:



The GPE indicator lights up when AUTO, MODE 1 or MODE 2 is selected.

Power Saving Function

This display meets the power saving guidelines set by the International ENERGY STAR Program. It is capable of reduced power consumption when used with a computer equipped with Display Power Management Signaling (DPMS). By sensing the absence of the sync signal coming from the computer, it will reduce the power consumption as follows:

✓ CAUTION

The Power Saving function will automatically put the display into Deep Sleep mode if the power switch is turned on without any vertical or horizontal sync signal from the computer. Once the horizontal and vertical syncs are sensed, the display will automatically return to its Normal Operation mode. Note that the power saving function may not work properly if the video signal contains a “Sync on Green” signal.

Mode	Power consumption	Recovery time	① Power indicator
1 Normal Operation	CPD-101VS: 110 W (max) CPD-201VS: 120 W (max)	—	Green
2 Sleep	15 W (max)	Approx. 3 sec.	Green ↔ Orange
3 Deep Sleep	8 W (max)	Approx. 10 sec.	Orange
4 Power-off	0 W	—	Off

Specifications

Picture tube	CPD-101VS: 0.25 mm aperture grille pitch, 15 inches measured diagonally (14.0" viewable), 90-degree deflection, AR coating CPD-201VS: 0.25 mm aperture grille pitch, 17 inches measured diagonally (16.0" viewable), 90-degree deflection, AR coating
Viewable image size	CPD-101VS: Approx. 285 × 214 mm (w/h) (11 1/4 × 8 1/2 inches) 14.0" viewing image (measured diagonally) CPD-201VS: Approx. 327 × 241 mm (w/h) (12 7/8 × 9 1/2 inches) 16.0" viewing image (measured diagonally)
Max. resolution	Horizontal: Max. 1280 dots Vertical: Max. 1024 lines
VESA standards	640 × 480 at 85 Hz 800 × 600 at 85 Hz 1024 × 768 at 85 Hz 1280 × 1024 at 60 Hz
Deflection frequency	Horizontal: 30 to 70 kHz Vertical: 50 to 120 Hz
Speaker	Left, right: 3.0 W x 2 50 Hz – 20 kHz
Microphones	Uni-directional, electret condenser microphone
Microphones output	3.5 mm miniplug
Audio input	3.5 mm Stereo miniplug, input impedance 47 kΩ, input level 0.7 Vrms typical
Headphones output	Stereo minijack, 15 mW + 15 mW at 16 Ω
Subwoofer output	3.5 mm miniplug, volume variable

Continued to the next page →

Controls	Front panel direct: Audio volume/Contrast/Audio mute/GPE (AUTO/ off/mode 1/mode 2)
	OSD menu: Brightness/Contrast/Picture size/Picture zoom/ Picture centering/Convergence (CPD-201VS only)/ Scen moiré/Color temperature (5000K/6500K/ 9300K/11000K)/Rotation/Pincushion/Pin balance/ Keystone/Key balance/Bass boost/Manual Degauss/OSD position/OSD language
AC input voltage/current	CPD-101VS: 100 to 240 V, 50 – 60 Hz, 1.1 – 0.6 A CPD-201VS: 100 to 240 V, 50 – 60 Hz, 1.5 – 0.6 A
Power consumption	CPD-101VS: Max. 110 W CPD-201VS: Max. 120 W
Dimensions	CPD-101VS: Approx. 368 × 408 × 388 mm (w/h/d) (14 ^{1/2} × 16 ^{1/8} × 15 ^{3/8} inches)
	CPD-201VS: Approx. 415 × 451 × 423 mm (w/h/d) (16 ^{3/8} × 17 ^{7/8} × 16 ^{3/4} inches)
Mass	CPD-101VS: Approx. 15.3 kg (33 lb 12 oz)
	CPD-201VS: Approx. 19.6 kg (43 lb 3 oz)

Design and specifications are subject to change without notice.

Troubleshooting

This section may help you isolate a problem and as a result, eliminate the need to contact technical support, allowing continued productivity.

No picture

If the ① indicator is not lit

- Check that the power cord is properly connected.
- Check that the ① switch is in the “on” position.

If the “NO INPUT SIGNAL” message appears on the screen, or if the ① indicator is either orange or alternating between green and orange

- Try pressing any key on the computer keyboard.
- Check that your computer power switch is in the “on” position.
- Check that the video signal cable is properly connected and all plugs are firmly seated in their sockets.
- Ensure that no pins are bent or pushed in the HD15 video input connector.

If the “OUT OF SCAN RANGE” message appears on the screen

- Check that the video frequency is within that specified for the display.
Horizontal: 30 – 70 kHz
Vertical: 50 – 120 Hz
Refer to your computer’s instruction manual to adjust the video frequency range.
- If you are using a video signal cable adapter, check that it is the correct one.

If no message is displayed and the ① indicator is green or flashing orange

- See “Self-diagnosis function” (Back cover).

No sound from speaker

If the ② indicator is displayed

- Press the ② button to cancel muting.
- Check that the audio plug is properly connected.
- Adjust the volume with \triangleleft +/- buttons.
- Check that the headphones are not connected.
- Check the volume control, muting, sound selector, etc. of the sound board. (See the computer’s manual.)

Microphone mixing is not possible

- Check that the MIC plug is properly connected.
- Check the microphone control, sound selector, etc. of the sound board. (See the computer’s manual.)

Continued to the next page →

Howling (feedback) is heard

- Decrease the volume with \triangleleft +/- buttons, or turn down the microphone input volume of the sound board.

Picture is scrambled

- Check your computer manual for the proper display setting.
- Check this manual and confirm that the graphic mode and the frequency you are trying to operate is supported. Even if the frequency is within the proper range, some video boards may have a sync pulse that is too narrow for the display to sync correctly.

Color is not uniform

- Degauss the display (page 28).
If you place equipment which generates a magnetic field, such as a speaker, near the display, or you change the direction of the display, color may lose uniformity. The degauss function demagnetizes the metal frame of the CRT to obtain a neutral field for uniform color reproduction. If a second degauss cycle is needed, allow a minimum interval of 20 minutes for the best result.

Screen image is not centered or sized properly

- Adjust the size or centering (pages 22, 23).
- Some video modes do not fill the screen to the edge. This problem tends to occur with certain video boards.

Edges of the image are curved

- Adjust the geometry (page 24).

Lines or letters show red or blue shadows at edges

- Adjust the convergence (page 26).

Picture is fuzzy

- Adjust the contrast and brightness (page 21). Some brands of video boards have an excessive video output level which creates a fuzzy picture at maximum contrast.
- Degauss the display (page 28).
If you place equipment which generates a magnetic field, such as a speaker, near the display, or you change the direction of the display, color may lose uniformity. The degauss function demagnetizes the metal frame of the CRT to obtain a neutral field for uniform color reproduction. If a second degauss cycle is needed, allow a minimum interval of 20 minutes for the best result.
- If moiré is cancelled, the picture may become fuzzy. Decrease the moiré cancellation effect (page 27).
- If the GPE mode is set to AUTO, change it to OFF (page 33).

Picture bounces or has wavy oscillations

- Isolate and eliminate any potential sources of electric or magnetic fields. Common causes for this symptom are electric fans, fluorescent lighting, laser printers, etc.
- If you have another display close to this display, increase the distance between them to reduce interference.
- Try plugging the display into a different AC outlet, preferably on a different circuit.

Picture is flickering

- Set the refresh rate on the computer to obtain the best possible picture by referring to your computer's manual.
- If the GPE mode is set to AUTO, change it to OFF (page 33).

Picture appears to be ghosting

- Eliminate the use of video extensions and/or video switch boxes if this symptom occurs. Excessive cable length or weak connections can produce this symptom.
- If the GPE mode is set to AUTO, change it to OFF (page 33).
- If the GPE mode is set to MODE 2, the picture may appear to be ghosting. Set to another GPE mode (page 33).

Wavy or elliptical (moiré) pattern is visible

- Cancel the moiré (page 27).
The moiré may be modified depending on the connected computer.
- Due to the relationship between resolution, display dot pitch and the pitch of some image patterns, certain screen backgrounds sometimes show moiré. Change your desktop pattern.

IntelliLight does not work

- Check that all four corners of the "IntelliLight" window are clearly displayed and are not covered by another window.
- Check that the GPE mode is set to AUTO (page 33).
- Leave the display's power "on" and reboot your computer.
- IntelliLight does not work correctly with an interlaced video mode. Check the vertical refresh rate in the Properties window of Windows 95/98 and select a non-interlaced mode.

Tiny color bars appear in the corners of the IntelliLight window

- Set the GPE mode to AUTO (page 33).
- Check that all four corners of the "IntelliLight" window are clearly displayed and are not covered by another window.

A fine horizontal line (wire) is visible

- This wire stabilizes the vertically striped Aperture Grille (page 16). This Aperture Grille allows more light to pass through to the screen giving the Trinitron CRT more color and brightness.

Hum is heard right after the power is turned on

- When the power is turned on, the Auto-degauss cycle is activated. While the Auto-degauss cycle is activated, a hum may be heard. The same hum is heard when the display is manually degaussed. This is not a malfunction.
- If the problem persists, call your authorized Sony dealer from a location near you, or call Sony Technical Support at 1-888-4SONYPC (1-888-476-6972).
 - Note the model name and the serial number of your display. Also note the make and name of your computer and video board.

Self-diagnosis function

This display is equipped with a self-diagnosis function. Use this function if there is a problem with your display or computer.

1. Disconnect the video input cable or turn off the connected computer.
2. Turn the display off and on.
3. Press and hold the  button for more than 2 seconds.

If all four color bars appear (white, red, green, blue) after a few seconds, the display is working properly, but there might be a problem with your computer. Contact your computer's manufacturer.

If the color bars do not appear, there might be a problem with the display. Contact your local authorized Sony dealer, or call Sony Technical Support at 1-888-4SONYPC (1-888-476-6972).

Sony  line

<http://www.world.sony.com/>

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