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- Furthermore, "TM" and "®" are not mentioned in each case in this manual.

Precautions

Installation

- Prevent internal heat build-up by allowing adequate air circulation. Do not place the monitor on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.
- Do not install the monitor near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- Do not place the monitor near equipment which generates magnetism, such as a transformer or high voltage power lines.

Handling the LCD screen

- Bright points of light (red, blue or green) may appear on the LCD screen. This is not a malfunction. The LCD screen is made with high-precision technology and more than 99.99 % of the picture element is intact. However, some of the picture element may not appear or some of the picture element may appear constantly.
- Do not leave the LCD screen facing the sun as it can damage the LCD screen. Take care when you place the monitor by a window.
- Do not push or scratch the LCD screen. Do not place a heavy object on the LCD screen. This may cause the screen to lose uniformity.
- If the monitor is used in a cold place, a residual image may appear on the screen. This is not a malfunction. When the monitor becomes warm, the screen returns to normal.
- If a still picture is displayed for a long time, a residual image may appear. The residual image will eventually disappear.
- The screen and the cabinet become warm during operation. This is not a malfunction.

Replacement of the fluorescent tube

A specially designed fluorescent tube is installed as the lighting apparatus for this monitor. If the LCD screen becomes dark, unstable or does not turn on, replace the fluorescent tube with a new one. Consult your Sony dealer when replacing the fluorescent tube.

Maintenance

- Clean the cabinet, 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 such as a ballpoint pen or screwdriver. This type of contact may result in a scratched picture tube.
- Clean the screen with a soft cloth. If you use a glass cleaning liquid, do not use any type of cleaner containing an antistatic solution or similar additive as this may scratch the screen's coating.

Transportation

- When you transport this monitor, grip the bottom of the screen firmly with both hands. If you drop the monitor, you may be injured or the monitor may be damaged.
- When you transport this monitor for repair or shipment, use the original carton and packing materials.

Warning on power connection

- Use an appropriate power cord for your local power supply.

For the customers in the UK

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

Examples of plug types



for 100 to 120 V AC for 200 to 240 V AC for 240 V AC only

The outlet should be installed near the equipment and be easily accessible.

Mounting on a wall or an arm

Ask a specialist to mount the monitor on a wall or an arm. Do not mount the monitor yourself.

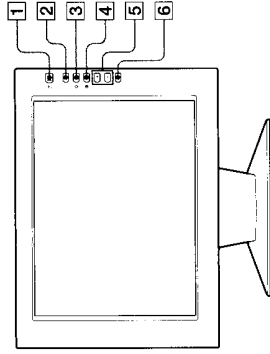
Disposal of the monitor

- Do not dispose of the monitor with general waste.
- Do not include the monitor with household waste.
- The fluorescent tube includes mercury. Dispose of the monitor in accordance with the regulations of your local sanitation authority.

Identifying Parts and Controls

See the pages in parentheses for further details. CPD-L150 is used for illustration purposes throughout this manual.

Front



- 1 (power) switch and indicator (pages 8, 17)**

Turns the monitor on or off.

The indicator lights up in green when the monitor is turned on, and either flashes in green and orange or lights up in orange when the monitor is in power saving mode.

- 2 MENU (menu) button (pages 8, 11 - 15, 17)**

Displays the MENU OSD (On-Screen Display).

- 3 (brightness) button (pages 8 - 9, 11 - 15)**

Adjusts the picture brightness.

Functions as the button when selecting menu items.

- 4 (contrast) button (pages 8 - 9, 11 - 15)**

Adjusts the contrast.

Functions as the button when selecting menu items.

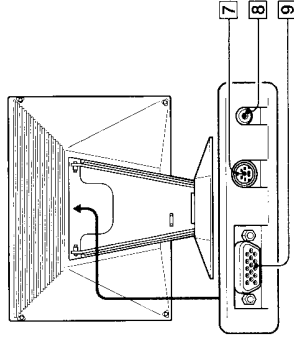
- 5 +/- (adjust) buttons (pages 9, 11 - 15)**

Adjusts the selected menu item.

- 6 AUTO button (pages 8, 11)**

After you have connected this monitor, press the AUTO button to automatically adjust the picture to the computer. You also should press this button if the picture is not centered or if it is fuzzy.

Rear



- 7 External control connector**

Inputs the external control signal of RS-232 format. Consult your dealer for further information.

- 8 DC IN connector (page 6)**

Provides DC power to the monitor from the AC adaptor.

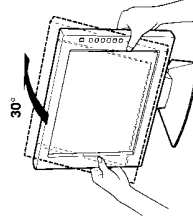
- 9 RGB input connector (HD15) (page 6)**

Inputs analog RGB video signals (0.714 Vp-p, positive) and SYNC signals.

Use of the Tilt

Use the tilt feature to adjust the monitor to the desired angle within 30° vertically.

To turn the monitor vertically, hold it at the bottom with both hands as illustrated below.



Setup

Before using this monitor, check that the following items are included in your carton:

- LCD monitor (1)
- AC adaptor (1)
- Rear cover (1)
- Power cord (1)
- HD15 video signal cable (1)
- Macintosh adapter (1)
- Windows Monitor Information Disk / Utility Disk (1)
- Macintosh Utility Disk (1)
- TCO'95 Eco-document (1)
- Warranty card (1)
- These operating instructions (1)

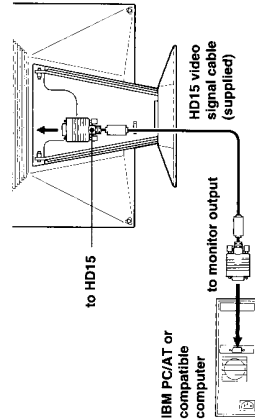
This monitor works with any IBM or compatible system equipped with VGA or greater graphics capability. Although this monitor works with other platforms running at horizontal frequencies between 30 and 70 kHz, including Macintosh and Power Macintosh systems, a cable adapter is required. Please consult your dealer for advice on which adapter is suitable for your needs. This monitor also can receive the RGB signals of the PAL and NTSC systems.

Step 1: Connect the monitor to the computer

With the computer switched off, connect the video signal cable to the monitor using the supplied HD15 video signal cable.

- If you are using an IBM PC / AT or compatible computer, refer to the section below.
- If you are using a Macintosh or compatible computer, refer to the following section, "Connecting to a Macintosh or compatible computer."

Connecting to an IBM PC/AT or compatible computer

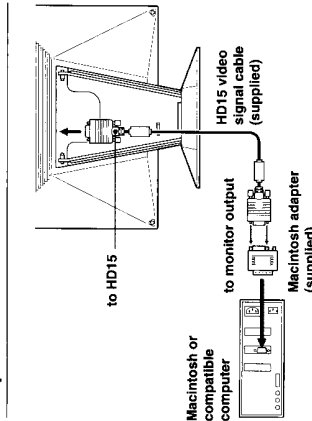


If your PC system is not compatible with DDC1 and DDC2B

This monitor uses the No. 9 pin in the video signal connector for DDC1 and DDC2B compatibility.

Some PC systems which are not compatible with either DDC1 or DDC2B may not accept the No. 9 pin. If you are not sure whether your PC system accepts the No. 9 pin or not, use the HD15 (Female) - HD15 (Male without the No. 9 pin) adapter (not supplied). Make sure the male side (without the No. 9 pin) is connected to the computer.

Connecting to a Macintosh or compatible computer

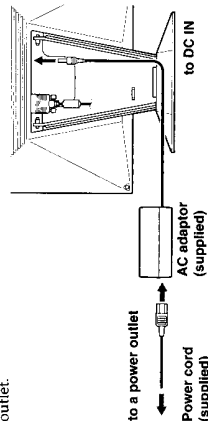


About the supplied Macintosh adapter

The supplied Macintosh adapter is compatible with Macintosh LC, Performa, Quadra and Power Macintosh series computers. Macintosh II series and some older versions of Power Book models may need an adapter with micro switches (not supplied).

Step 2: Connect the power cord

With the monitor switched off, connect one end of the DC power cord to the monitor and the other end to a power outlet.



Step 4: Turning on the monitor and computer

First turn on the monitor, then turn on the computer. The installation of your monitor is complete.

Note

If "OUT OF SCAN RANGE" or "NO INPUT SIGNAL" appears on the screen, see "Warning Messages" on page 18.

For customers using Windows 95/98

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

This monitor complies with the "VESA DDC" Plug & Play standard. If your PC/graphics board complies with DDC, select "Plug & Play Monitor (VESA DDC)" or this monitor'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 monitor, load the Windows Monitor Information Disk / Utility Disk and select this monitor's model name as the monitor type.

For customers using Windows NT4.0

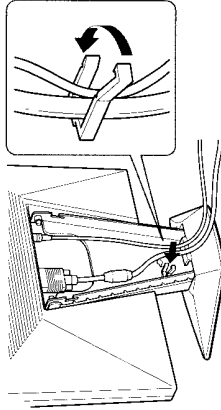
Monitor setup in Windows NT4.0 is different from Windows 95/98 and does not involve the selection of monitor type. Refer to the Windows NT4.0 instruction manual for further details on adjusting the resolution, refresh rate, and number of colors.

Step 3: Attaching the rear cover

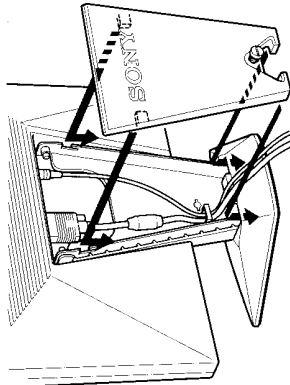
After connecting the computer and power cord, attach the supplied rear cover.

Make sure that you keep the screen upright when attaching the rear cover.

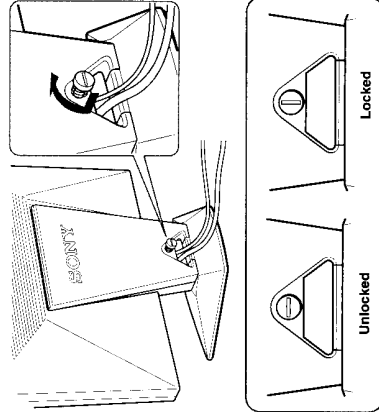
- 1 Hook the computer cable and power cord.



- 2 Insert the tabs on the back of the rear cover into the catches, and then push down.



- 3 Turn the screw to fasten the rear cover.



Automatically Adjusting the Picture

If the picture is flickering or fuzzy, press the AUTO button. The monitor is automatically adjusted to match the signal from the connected computer.

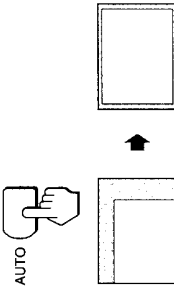
Further fine adjustments may be needed with some computers. In this case, manually adjust the monitor by referring to "Customizing Your Monitor" on page 9.

1 Turn on the monitor.

2 Turn on the computer.

3 Press the AUTO button.

The picture is adjusted to fit the center of the screen.



Notes

- This function is intended for use with a computer running Windows or similar graphic user interface software that provides a full-screen picture. It may not work properly if the background color is dark or if the input picture does not fill the screen to the edges (such as an MS-DOS prompt).
- The screen may go blank for a few seconds while performing the auto-sizing function. This is not a malfunction.

If the picture is flickering or fuzzy even after you press the AUTO button

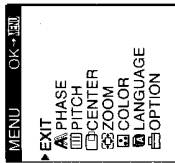
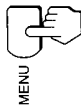
Adjust the Pitch and Phase manually (page 11).

Selecting the On-Screen Display Language

You can select the OSD language from English, French, German, Spanish, Italian, and Japanese.

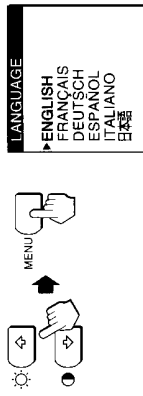
1 Press the MENU button.

The MENU OSD appears.



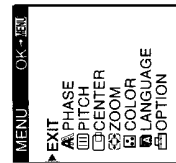
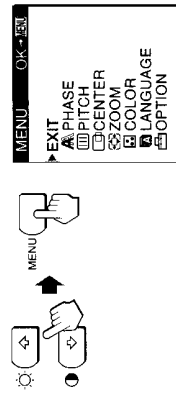
2 Press the $\uparrow/\downarrow$ buttons to select LANGUAGE, and press the MENU button.

The LANGUAGE OSD appears.



3 Press the $\uparrow/\downarrow$ buttons to select the desired language, and press the MENU button.

The MENU OSD of the selected language appears.



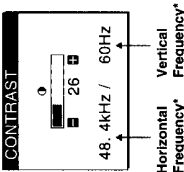
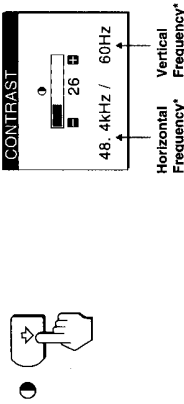
The OSD automatically disappears after about 30 seconds. To close the OSD, press the MENU button again.

Adjusting the Contrast

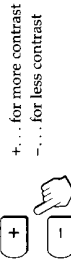
Once the contrast is adjusted, it will be stored in memory for all input signals received.

1 Press the 0 (contrast) $\uparrow/\downarrow$ button.

The CONTRAST OSD appears.



2 Press the +/- buttons.



+... for more contrast
-... for less contrast

The OSD automatically disappears after about 3 seconds.

- The horizontal and vertical frequencies for the received input signal appear in the CONTRAST OSD.

Before adjusting

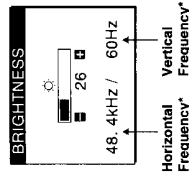
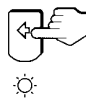
Connect the monitor and the computer, and turn them on.
Wait for at least 30 minutes before making adjustments for the best result.

Adjusting the Picture Brightness

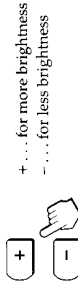
Once the brightness is adjusted, it will be stored in memory for all input signals received.

1 Press the $\odot$ (brightness) $\uparrow/\downarrow$ button.

The BRIGHTNESS OSD appears.



2 Press the +/- buttons.



+... for more brightness
-... for less brightness

The OSD automatically disappears after about 3 seconds.

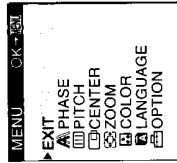
- The horizontal and vertical frequencies for the received input signal appear in the BRIGHTNESS OSD.

If the screen is too bright when using the monitor in a dark room

Decrease the BACKLIGHT (page 14).

Introducing the On-Screen Display System

Most adjustments are made using the MENU OSD. To change the on-screen display language, see "Selecting the On-Screen Display Language" (page 8).



EXIT
Closes the MENU OSD.

PHASE
Displays the PHASE OSD. Adjust the phase when the characters or pictures appear fuzzy throughout the entire screen. Adjust the phase after adjusting the pitch.

PITCH
Displays the PITCH OSD. Adjust the pitch when the characters or pictures are not clear at some parts of the screen.

CENTER
Displays the CENTER OSD for adjusting the centering of the picture.

ZOOM
Displays the ZOOM OSD for selecting the picture's display mode. Select FULL MODE to display the picture using the entire screen, or select REAL MODE to display the picture at its actual resolution.

COLOR
Displays the COLOR OSD for adjusting the color temperature.

LANGUAGE
Displays the LANGUAGE OSD for selecting the on-screen display language.

OPTION
Displays the OPTION OSD. You can adjust settings such as the backlight, OSD position, power saving delay time and control lock.

Using the Utility Disk

The supplied Utility Disk contains test patterns to be used for Pitch, Phase, and Centering adjustments. These test patterns will help you confirm that your adjustments are correct.

Pitch adjustment

Adjust the Pitch if vertical stripes appear on the screen, or a part of the screen flickers or blurs.

Adjust the screen so that the bold, vertical lines of the test pattern disappear.

Phase adjustment

Adjust the Phase if the entire screen flickers or blurs, or if horizontal stripes are observed on the screen.

Adjust the screen until the horizontal stripes are at a minimum.

Centering adjustment

Adjust the Centering if the picture is not centered.

Move the picture up, down, left, or right until the red frame at the perimeter of the test pattern disappears.

Using the test pattern

1 Set ZOOM to REAL MODE (page 12).

2 Load the supplied Utility Disk and display the test pattern.

Use the appropriate disk for your computer.

For Windows 95/98

Windows Monitor Information Disk / Utility Disk

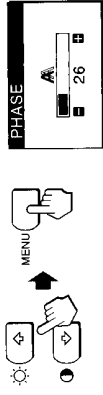
For Macintosh

Macintosh Utility Disk

3 Select the pitch, phase, or centering from the monitor's MENU OSD, and adjust the screen while viewing the test pattern (pages 11, 12).

4 When you have finished, click **END** on the screen to turn off the test pattern.

6 Press the **PHASE** button to select PHASE, and press the MENU button again.
The PHASE OSD appears.



7 Press the **PHASE** button until the screen color becomes uniform.

If you are using the Utility Disk, adjust until the horizontal stripes are at a minimum.



The OSD automatically disappears after about 30 seconds. To close the OSD, press the MENU button again.

To turn off the test pattern, click **END** on the screen.

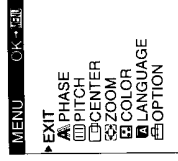
Eliminating Flickering or Blurring

If a part of the screen is flickering or blurring, press the AUTO button. If this operation does not work, adjust the Pitch and Phase as follows.

Once the pitch and phase are adjusted, they will be stored in memory for the current input signal.

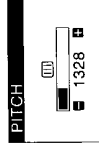
1 Load the Utility Disk (page 10).

2 Press the MENU button.
The MENU OSD appears.



3 Press the **PHASE** button to select PHASE, and press the MENU button again.

The PHASE OSD appears.



4 Press the **PHASE** button until the screen color becomes uniform.

If you are using the Utility Disk, adjust so that the vertical stripes disappear.



5 Press the MENU button.

The MENU OSD appears.

If horizontal stripes are observed over the entire screen, adjust the Phase in the next step.

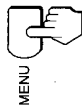
Adjusting the Picture Position

If the picture is not in the center of the screen, press the **AUTO** button. If this operation does not work, adjust the centering as follows.

Once the centering is adjusted, it will be stored in memory for the current input signal.

- 1 Load the Utility Disk (page 10).

- 2 Press the **MENU** button.
The MENU OSD appears.

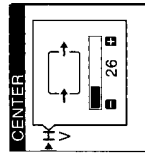


- 3 Press the $\uparrow/\downarrow$ buttons to select **CENTER**, and press the **MENU** button again.
The **CENTER** OSD appears.



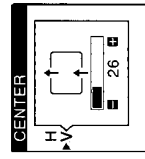
- 4 For horizontal adjustment, select **H** using the $\uparrow/\downarrow$ buttons and adjust the position using the $+/-$ buttons.

+ ... to move the picture right
- ... to move the picture left



- For vertical adjustment, select **V** using the $\uparrow/\downarrow$ buttons and adjust the position using the $+/-$ buttons.

+ ... to move the picture up
- ... to move the picture down



The OSD automatically disappears after about 30 seconds.
To close the OSD, press the **MENU** button again.

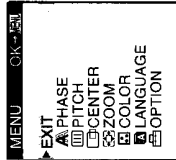
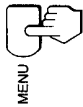
To turn off the test pattern, click **[END]** on the screen.

Displaying the Picture at the Actual Resolution

The monitor is set at the factory to display the picture on the screen in full, irrespective of the picture's resolution. You can also view the picture at its actual resolution.

Once the zoom is set, it will be stored in memory for the current input signal.

- 1 Press the **MENU** button.
The MENU OSD appears.



- 2 Press the $\uparrow/\downarrow$ buttons to select **ZOOM**, and press the **MENU** button again.
The **ZOOM** OSD appears.



- 3 Press the $\downarrow$ button to select **REAL MODE**, and press the **MENU** button again.
The MENU OSD appears.



The OSD automatically disappears after about 30 seconds.
To close the OSD, press the **MENU** button again.

To display the picture on the screen in full

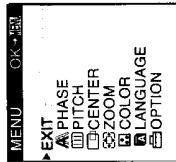
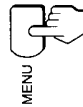
Press the $\uparrow$ button in step 3 to select **FULL MODE**.

Changing or Adjusting the Color Temperature

The color temperature is set to 9300K at the factory. You can change the color temperature to 6500K or 5000K. Use this function to adjust the color temperature so that it matches the actual colors of a printed picture.

Once the color temperature is adjusted, it will be stored in memory for all input signals received.

- 1 Press the **MENU** button.
The MENU OSD appears.



- 2 Press the $\uparrow/\downarrow$ buttons to select **COLOR**, and press the **MENU** button again.
The **COLOR** OSD appears.



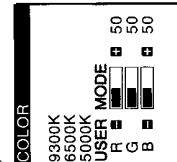
- 3 Press the $\uparrow/\downarrow$ buttons to select the color temperature.

If you need to make further adjustments to the selected color temperature, go to step 4.

If you don't, press the **MENU** button. The MENU OSD appears.

- 4 Press the $\uparrow/\downarrow$ buttons to select **R** (red) or **B** (blue), and press the $+/-$ buttons to get the desired color.

The color changes as the R or B components increase or decrease with respect to G (green).

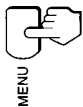


The OSD automatically disappears after about 30 seconds.
To close the OSD, press the **MENU** button again.

Changing the On-Screen Display Position

You can change the OSD position (for example, when you want to adjust the picture behind the OSD).

- 1 Press the **MENU** button.
The MENU OSD appears.

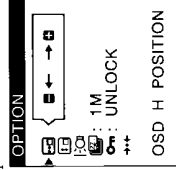


- 2 Press the $\uparrow/\downarrow$ buttons to select **OPTION**, and press the **MENU** button again.
The **OPTION** OSD appears.

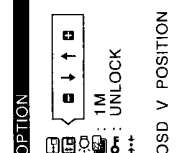


- 3 Press the $\uparrow/\downarrow$ buttons to select **OSD H POSITION** or **OSD V POSITION**.

To adjust the horizontal position



- 4 Press the $+/-$ buttons to move the OSD to the desired position.



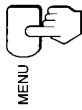
The **OPTION** OSD automatically disappears after about 30 seconds.

To close the OSD, press the **MENU** button again.

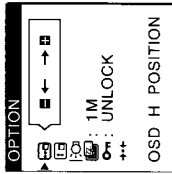
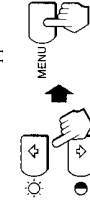
Adjusting the Backlight

If the screen is too bright when you are using the monitor in a dark room, adjust the backlight.

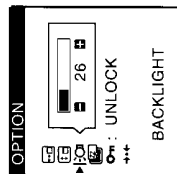
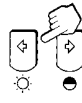
- 1 Press the **MENU** button.
The MENU OSD appears.



- 2 Press the $\leftarrow/\rightarrow$ buttons to select **OPTION**, and press the **MENU** button again.
The OPTION OSD appears.



- 3 Press the $\leftarrow/\rightarrow$ buttons to select **BACKLIGHT**.



- 4 Press the $+/-$ buttons to adjust the light level.

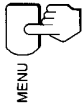


The OPTION OSD automatically disappears after about 30 seconds.
To close the OSD, press the MENU button again.

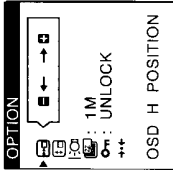
Setting the Power Saving Delay Time

You can set the delay time before the monitor enters the power saving mode. See page 17 for more information on this monitor's power saving capabilities.

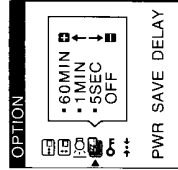
- 1 Press the **MENU** button.
The MENU OSD appears.



- 2 Press the $\leftarrow/\rightarrow$ buttons to select **OPTION**, and press the **MENU** button again.
The OPTION OSD appears.



- 3 Press the $\leftarrow/\rightarrow$ buttons to select **(PWR SAVE DELAY)**.



- 4 Press the $+/-$ buttons to select the desired time.



When PWR SAVE DELAY is set to OFF, the monitor does not go into power saving mode.

The OPTION OSD automatically disappears after about 30 seconds.
To close the OSD, press the MENU button again.

Locking the Controls

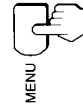
The control lock function disables all of the controls except the $\odot$ (power) switch and MENU button.

Once you select "LOCK," you can select only the following items in the MENU OSD:

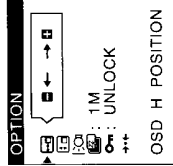
- EXIT
- CONTROL LOCK and FACTORY PRESET in the OPTION OSD

If you press any locked button, the **On** mark appears on the screen.

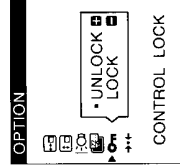
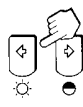
- 1 Press the **MENU** button.
The MENU OSD appears.



- 2 Press the $\leftarrow/\rightarrow$ buttons to select **OPTION**, and press the **MENU** button again.
The OPTION OSD appears.



- 3 Press the $\leftarrow/\rightarrow$ buttons to select **CONTROL LOCK**.



- 4 Press the **-** button to select **LOCK**.



The OPTION OSD automatically disappears after about 30 seconds.
To close the OSD, press the MENU button again.

To cancel the control lock

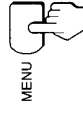
Press the **+** button in step 4 to select **UNLOCK**.

Resetting the Adjustments

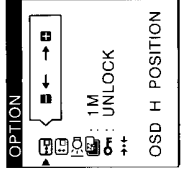
You can reset all of the adjustments and settings to the factory settings.

The color temperature is reset to 9300K, the zoom setting is reset to full mode, and the power saving delay time is reset to one minute. The control lock is cancelled. All other adjustments return to the default settings. The on-screen language, however, does not change.

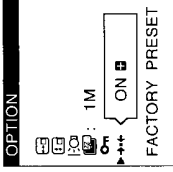
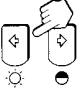
- 1 Press the **MENU** button.
The MENU OSD appears.



- 2 Press the $\leftarrow/\rightarrow$ buttons to select **OPTION**, and press the **MENU** button again.
The OPTION OSD appears.



- 3 Press the $\leftarrow/\rightarrow$ buttons to select **FACTORY PRESET**.



- 4 Press the **+** button.



The OPTION OSD automatically disappears after about 30 seconds.
To close the OSD, press the MENU button again.

Preset and User Modes

This monitor has factory preset modes for the most popular industry standards for true "plug and play" compatibility.

When a new input signal is entered, the monitor selects the appropriate factory preset mode and momentarily adjusts the phase calibration to provide a high quality picture to the center of the screen. The calibration is stored in memory and is immediately recalled whenever the same input signal is received.

No.	Resolution (dots × lines)	Horizontal Frequency	Vertical Frequency	Graphics Mode
1	—	15.625 kHz	50 Hz	625i
2	—	15.75 kHz	60 Hz	525i
3	640 × 350	31.5 kHz	70 Hz	MCGA
4	640 × 400	31.5 kHz	70 Hz	NEC PC-98
5	640 × 480	31.5 kHz	60 Hz	VGA-G
6	640 × 480	35.0 kHz	67 Hz	Macintosh 13" color
7	640 × 480	37.5 kHz	75 Hz	EVGA
8	640 × 480	43.3 kHz	85 Hz	VESA
9	720 × 400	31.5 kHz	70 Hz	VGA-Text
10	720 × 400	37.9 kHz	85 Hz	VESA
11	800 × 600	37.9 kHz	60 Hz	SVGA
12	800 × 600	46.9 kHz	75 Hz	ESVGA
13	800 × 600	53.7 kHz	85 Hz	VESA
14	832 × 624	49.7 kHz	75 Hz	Macintosh 16" color
15	1024 × 768	48.4 kHz	60 Hz	VESA
16	1024 × 768	56.5 kHz	70 Hz	VESA
17	1024 × 768	60.0 kHz	75 Hz	EU VGA
18	1024 × 768	60.2 kHz	75 Hz	Macintosh 19" Color
19	1024 × 768	68.7 kHz	85 Hz	VESA

Power Saving Function

This monitor meets the power-saving guidelines set by VESA and ENERGY STAR, as well as the more stringent NUTEK.

If the monitor is connected to a computer or video graphics board that is VESA DPMs (Display Power Management Signaling) compliant, the monitor will automatically reduce power consumption in three stages as shown below.

Power mode	Power consumption	Horizontal sync signal	Vertical sync signal	Power consumption	Recovery time	Indicator
1 Normal operation	CPD-L133 ≤ 30 W* ≤ 42 W** CPD-L150 ≤ 25 W* ≤ 35 W**	present	present		—	Green
2 Standby (1st mode)	CPD-L133 ≤ 1.5 W* ≤ 4 W** CPD-L150 ≤ 1.5 W* ≤ 4 W**	absent	present		Approx. 3 sec.	Green and orange alternate
3 Suspend (2nd mode)	CPD-L133 ≤ 1.5 W* ≤ 4 W** CPD-L150 ≤ 1.5 W* ≤ 4 W**	absent	absent		Approx. 3 sec.	Green and orange alternate
4 Active-off (3rd mode)	CPD-L133 ≤ 1.5 W* ≤ 4 W** CPD-L150 ≤ 1.5 W* ≤ 4 W**	absent	absent		Approx. 10 sec.	Orange
5 Power-off	CPD-L133 ≤ 1.5 W* ≤ 4 W** CPD-L150 ≤ 1.5 W* ≤ 4 W**	—	—		—	Off

* Power consumption of the monitor only

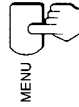
** Power consumption of the monitor including the AC adaptor

Displaying the INFORMATION OSD

You can confirm the name, the serial number and the year of manufacture of this monitor.

Press and hold the **MENU** button for five seconds.

The INFORMATION OSD appears



Example

INFORMATION			
MODEL : CPD-L150	Model name		
SER. NO : 1234567	Serial number		
MANUFACTURED : 1998	Year of manufacture		

The INFORMATION OSD automatically disappears after about 30 seconds.
To close the OSD, press the MENU button again.

Plug & Play

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

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

DDC™ is a trademark of the Video Electronics Standard Association.

Warning Messages

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

INFORMATION

OUT OF SCAN RANGE

"OUT OF SCAN RANGE" indicates that the input signal is not supported by the monitor's specifications.

"NO INPUT SIGNAL" indicates that no signal is input.

To solve these problems, see "Troubleshooting" below.

Troubleshooting

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

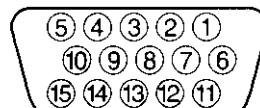
Symptom	Check these items
No picture	
If the  indicator is not lit	- Check that the power cord is properly connected. - Check that the  (power) switch is in the "on" position.
If the "NO INPUT SIGNAL" message appears on the screen, or if the  indicator is orange	- The screen is blank when the monitor is in power saving mode. Try pressing any key on the computer keyboard. - Check that your computer power switch is in the "on" position. - Check that the input select setting is correct. - Check that the video signal cable is properly connected and all plugs are firmly seated in their sockets. - Check the HD15 video input connector to ensure that no pins are bent or pushed in.
If the "OUT OF SCAN RANGE" message appears on the screen	- Check that the video frequency range is within that specified for the monitor. Horizontal: 30 – 70 kHz, Vertical: 50 – 85 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 correct.
If using a Macintosh system	Check that the Macintosh adapter and the video signal cable are properly connected (page 6).
If using Windows 95/98	If you replaced an old monitor with this monitor, reconnect the old monitor and do the following: Install the Windows Monitor Information Disk / Utility Disk (page 7) and select "CPD-L133 or CPD-L150" from among the Sony monitors in the Windows 95/98 monitor selection screen.
Picture is dark.	- Adjust the backlight (page 14). - Adjust the brightness (page 9). - It takes several seconds for the monitor to warm up after the power is turned on. The picture will appear momentarily.
Picture is scrambled.	- Press the AUTO button (page 8). If this does not work, adjust the pitch and phase (page 11). - Check this manual and confirm that the graphics mode and the frequency you are trying to operate at is supported. Even if the frequency is within the proper range, some computers may have a sync pulse that is too narrow for this monitor to sync correctly.

Symptom	Check these items
Color is not uniform.	Press the AUTO button (page 8). If this does not work, adjust the pitch and phase (page 11).
You cannot adjust the monitor with the buttons on the front panel.	If the control lock function is set to on, set it to off using the OPTION OSD (page 13).
White does not look white.	Adjust the color temperature (page 13).
Screen image is not centered.	- Press the AUTO button (page 8). - Adjust the centering (page 12). - Some video modes do not fill the screen to the edges. This problem tends to occur with certain video boards.
The picture size is incorrect.	Check the ZOOM setting (page 12).
Picture is fuzzy	- Press the AUTO button (page 8). If this does not work, adjust the pitch and phase (page 11). - Adjust the contrast and brightness (page 9).
Picture bounces or has wavy oscillations	- Try plugging the monitor into a different AC outlet, preferably on a different circuit. - Try the monitor on a different computer in a different room.
Picture is flickering	Press the AUTO button (page 8). If this does not work, adjust the pitch and phase (page 11).
Picture appears to be ghosting	Eliminate the use of video cable extensions and/or video switch boxes if this symptom occurs. Excessive cable length or a weak connection can produce this symptom.
Wavy or elliptical (moire) pattern is visible	Press the AUTO button (page 8). If this does not work, adjust the pitch and phase (page 11).

Specifications

LCD panel	Panel type: a-Si TFT Active Matrix CPD-L133 Picture size: 13.3 inches CPD-L150 Picture size: 15.0 inches
Input signal format	RGB operating frequency: fh: 15.625 kHz (625 interlace signal) 15.75 kHz (525 interlace signal) 30 – 70 kHz fv: 50 Hz — 85 Hz
Pixel efficiency	99.99 %
Resolution	H: max 1024 dots V: max. 768 lines
Power requirements	Operation: AC 100 – 240 V, 50 – 60 Hz Input: DC 12 V (using the AC adaptor)
Power consumption	CPD-L133 Display only: Max. 30 W Including the AC adaptor: Max. 42 W CPD-L150 Display only: Max. 25 W Including the AC adaptor: Max. 35 W
Dimensions (w/h/d)	CPD-L133 Including the stand: Approx. 373 × 358 × 165 mm (14 ³ / ₄ × 14 ¹ / ₈ × 6 ¹ / ₂ in.) Monitor only: Approx. 373 × 272 × 71 mm (14 ³ / ₄ × 10 ³ / ₄ × 2 ⁷ / ₈ in.) CPD-L150 Including the stand: Approx. 398 × 366 × 165 mm (15 ³ / ₄ × 14 ¹ / ₂ × 6 ¹ / ₂ in.) Monitor only: Approx. 398 × 291 × 71 mm (15 ³ / ₄ × 11 ¹ / ₂ × 2 ⁷ / ₈ in.)
Mass	CPD-L133 Approx. 4.9 kg (10 lb 12 oz) including the stand CPD-L150 Approx. 5.3 kg (11 lb) including the stand
Supplied accessories	See page 6.

Pin assignment



Pin No.	Signal	Pin No.	Signal
1	Red	8	Blue Ground
2	Green (Composite Sync on Green)	9	DDC + 5V*
		10	Ground
		11	ID (Ground)
3	Blue	12	Bi-Directional Data (SDA)*
4	ID (Ground)		
5	DDC Ground*	13	H. Sync
6	Red Ground	14	V. Sync
7	Green Ground	15	Data Clock(SCL)*

* Display Data Channel (DDC) Standard of VESA

Design and specifications are subject to change without notice.