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Introduction

This monitor provides high resolution performance and operates in a variety of video modes. Microprocessor-based On-Screen Display (OSD) controls let you adjust a variety of image options, automatically storing various user modes, including eight factory preset modes.





Safety Precautions

- ◆ Read all instructions before using the monitor and save them for later use.
- ◆ Follow all warning and instructions marked on this product.
- ◆ To avoid electrical shock, never open the monitor case.
- ◆ Unplug the monitor from the wall outlet before cleaning. Use only a damp cloth for cleaning. Do not use liquid or aerosol cleaners.
- ◆ Never use the monitor if the power cable has been damaged. Do not allow anything to rest on the power cable. Keep the cable away from traffic.
- ◆ The openings in the monitor cabinet are for ventilation. Do not block or cover these openings. Do not insert anything into these openings. If you put the monitor in a bookcase or some other enclosed space, be sure to leave space for ventilation.
- ◆ Do not expose the monitor to rain or use it near water. If the monitor gets wet, unplug it and contact Technical Support.
- ◆ This monitor is equipped with a grounding-type plug as a safety feature. This plug will only fit into a grounding-type outlet. If you are unable to insert the plug into an outlet, contact an electrician to install the appropriate outlet. Do not try to remove any of the prongs.
- ◆ If an extension cord is used with this monitor, ensure that the total ampere ratings of the products plugged into the extension cord do not exceed the extension cord's ampere rating. Also, make sure that the total of all products plugged into the wall outlet does not exceed 15 amperes.
- ◆ If any problem occur, unplug the monitor and contact Technical Support.



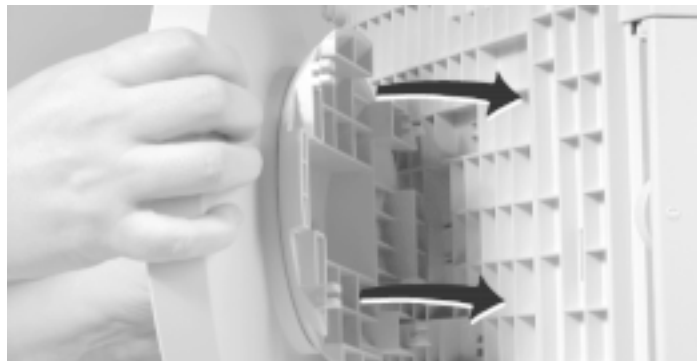
Installation

Use the following steps to install your monitor. If you are setting up your system for the first time, refer to the setup poster for more information about connecting additional peripherals.

Step 1 - Attach the Base

your monitor comes with a tilt/swivel base, which is shipped separate from the monitor. Install the base as follows:

1. Carefully set the monitor on its side with the bottom of the monitor facing you.
2. Hold the base so that the narrow end is pointed toward the back of the monitor.
3. Align the four hooks on the bottom of the base with the corresponding slots on the bottom of the monitor.

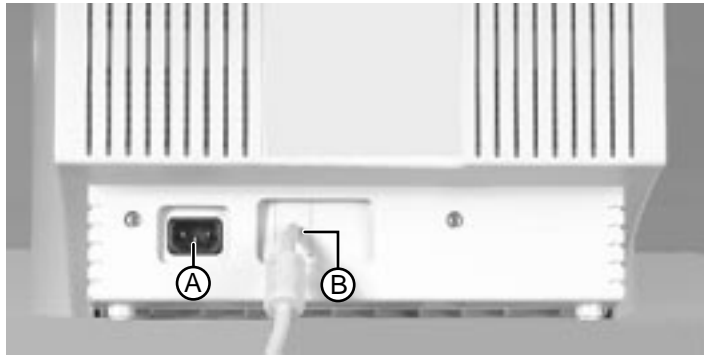


4. Slide the base toward the rear of the monitor so that all hooks are securely in place. A retaining latch built into the bottom of the monitor clicks into place when the base is correctly attached.
5. Carefully set the monitor upright and place the monitor on a sturdy, even surface.



Step 2 - Connect power and signal cables

1. Position the monitor and the computer so that you can easily get at the back panel of each. Make sure all cables can reach a properly grounded electrical outlet.
2. Connect the video cable's blue connector to the matching blue video card connector on the back of your computer. Ensure that the "D" shape of the connectors match.
3. Tighten the screws on the video cable connector to keep them from coming loose and to prevent radio and TV interference.
4. Connect the power cord that came with the monitor to the AC power connector at the back of the monitor. To maintain mandatory FCC standards, use only the cord that came with the monitor.
5. Plug the end of the power cord into a properly grounded electrical outlet.



A. AC power connector

B. Attached video cable with blue connector



Removing the base

You can use your monitor without the base to save space or to fit it into a smaller area in a computer desk. Remove the base as follows:

1. Turn off the monitor and disconnect any cables.
2. Carefully set the monitor on its side with the bottom of the monitor facing you.
3. Rotate the base so that you can easily get to the retaining latch on the bottom of the monitor.
4. Press down on the retaining latch. While holding down the latch, slide the base toward the back of the monitor.





Operation

Starting the monitor

1. Press the power button once. The power LED lights and the monitor demagnetizes itself for about five seconds.

Caution!

During this time, the monitor generates a strong magnetic field. This field can erase or seriously affect data stored on magnetic tapes or diskettes that are stored or placed next to the monitor.

2. Turn on the computer.
3. Once the system is running, the power LED on the monitor should be green. If not, check the connections and refer to the “Troubleshooting” section of this guide..
4. Adjust the controls to get the best picture. Experiment with the display settings to choose the ideal image size and position for you. Go to the “Adjusting display setting” section in this guide for information about changing your display.

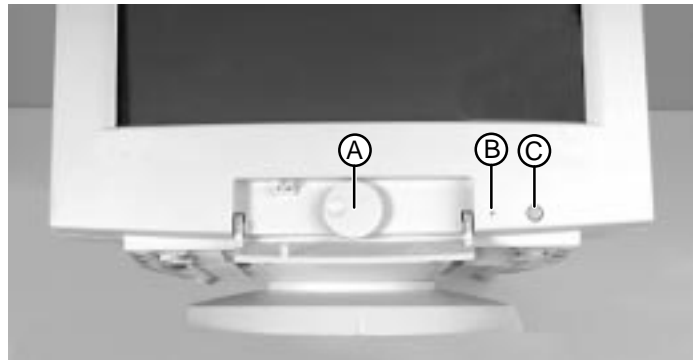
Note:

If you need to disconnect the power cord from either the wall socket or monitor, wait 30 seconds after you turn off the monitor before you unplug it. Wait 30 seconds lets the monitor discharge any static electricity from the screen surface so you will not get any static shocks.



Adjusting display setting

This monitor features a flywheel control that lets you adjust and save contrast, brightness, and visual settings for the display image.



- A. Flywheel control
- B. Power LED
- C. Power button

The On Screen Display (OSD) system memorizes any changes you make to the settings and saves them even if you turn off the monitor. Adjust the display setting as follows:

1. Press the flywheel control. The main menu appears and the current display settings appear across the top of the main menu.
2. Rotate the flywheel to highlight an option. The name of the highlighted option appears in the center of the menu.
3. Press the flywheel control to select the highlighted option, then rotate the flywheel to adjust it. Some options can only be enabled or disabled, and some contain additional menus.
4. Repeat Steps 2 and 3 until you have made all your changes.
5. Rotate the flywheel control until **Exit** is highlighted, then press it to exit the OSD control system.

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OSD Options

- ◆ **Contrast** - increases or decreases display image contrast.
- ◆ **Brightness** - increases or decreases display image brightness.
- ◆ **Horizontal Position** - moves display image to the left or right side.
- ◆ **Horizontal Size** - increases or decreases the width of the display image.
- ◆ **Vertical Position** - moves the display image to the top or bottom of the screen.
- ◆ **Vertical Size** - increases or decreases the height of the display image.
- ◆ **Pincushion** - curves the sides of the display image inward or outward.
- ◆ **Trapezoid** - increases or decreases the trapezoid distortion of the display image.
- ◆ **Degauss** - removes magnetic discoloration from the display image.
- ◆ **Reset** - returns most options to the original factory default settings if the monitor is currently using a preset video mode. (See the “Video modes” section in this guide for information about the factory preset modes.)
- ◆ **More** - opens the Advanced Option menu. This menu allows you to adjust the following options:
 - **Rotation** - rotates the entire display image.
 - **Parallelogram** - shift the top and bottom of the display images horizontally in opposite directions
 - **Bow** - shift the center of the display image horizontally.
 - **Horizontal Top Corner** - squares off the top display corners.
 - **Horizontal bottom Corner** - squares off the bottom display corners.
 - **Horizontal Moire** - reduces the optical effect of wavy lines or ripples on the display image in the vertical direction.
 - **Vertical Moire** - reduces the optical effect of wavy lines or ripples on the display image in the horizontal direction.
- ◆ **Color Manager** - opens the Color Manager menu, which lets you change the color temperature of the display image.



- ◆ **Language** - changes the display language for the OSD control system.
- ◆ **User Mode** - displays information about the monitor's preset modes.
- ◆ **OSD Manager** - moves the OSD control window on the screen.
- ◆ **Exit** - closes the OSD control system.

Video Modes

If you are playing a game or using a program that does not look right, there are several preset modes that may improve the display. Refer to the documentation that came with the game or program for suggested display modes. The preset video modes are:

Mode	Display Mode	Horizontal Frequency	Vertical Frequency
1	640 x 480	31.5 KHz	60 Hz
2	640 x 480	37.5 KHz	75 Hz
3	720 x 400	31.5 KHz	70 Hz
4	800 x 600	37.9 KHz	60 Hz
5	800 x 600	46.9 KHz	75 Hz
6	1024 x 768	48.4 KHz	60 Hz
7	1024 x 768	60.0 KHz	75 Hz
8	1280 x 104	63.9 KHz	60 Hz

If one of the preset mode does not fix the problem, you can make changes to setting and they will be stored so that you can recall them later.



Power management

Your monitor has three power saving modes.

- ◆ Normal mode
- ◆ Sleep mode
- ◆ Off mode (different from total shut down)

The monitor mode is indicated by the power LED on the front panel.

LED	Mode
Green	Normal operation
Orange	Sleep mode
Blinking orange	Off mode

To “wake” the monitor when it is in sleep or Off mode, move your mouse or touch any keyboard key.



Maintenance

To keep your monitor in optimal working order:

- ◆ Do not block the ventilation holes
- ◆ Do not expose the monitor to rain or use near water.
- ◆ Keep the monitor away from radiators or heat vents.
- ◆ Keep the monitor out of direct sunlight.
- ◆ Keep the monitor away from any equipment that generates a magnetic field.

Clean the monitor using a soft cloth lightly moistened with a mild detergent solution such as glass cleaner. Wipe the cabinet, screen, and controls.

Caution!

Do not use any type of abrasive pad or cleaner. You may permanently scratch the screen.



Troubleshooting

If you have problems with your monitor, this troubleshooting section may help you to identify and fix them.

Important:

Make sure that the monitor has warmed up for approximately 30 minutes before making any judgements about the picture quality.

No picture

- ◆ Make sure the power cord is properly connected to both the back of the monitor and the wall outlet.
- ◆ Make sure the video cable is securely connected to the back of the computer.
- ◆ Make sure the monitor power button is on.
- ◆ If the power saving indicator is orange or blinking orange:
 - Make sure that the computer is on.
 - Make sure that the computer recovers from sleep mode when you press any key on the keyboard or moves the mouse.
 - Check the video connector and the end of the video cable for any pins that might be bent or pushed in.
 - Make sure the video cable is properly connected to the back of the computer.
 - Make sure that the video cable is not damaged.

Picture is scrambled

Refer to page 11 for the recommended setting for your monitor. To automatically recover the default monitor setting, do the following:



1. Start the system.
2. Press F8 when the screen displays the “Starting Windows 98” message.
3. Select **Safe mode** and wait for the system to finish starting up. This starts Windows 98 in a “safe mode”, which means that most drivers are not loaded.
4. Click **Start, Setting**, then **Control Panel**. The Control Panel window appears.
5. Double-click the **display** icon. The display properties window appears.
6. Click the **setting** tab.
7. Click **Advanced**. The Advanced Display Properties window appears.
8. Click the **Monitor** tab.
9. Click **Change**. The Select Device window appears.
10. Select **Plug and Play monitor (VESA DDC)**.
11. Restart Windows.

Display colors are wrong

- ◆ Check the video connector and the end of the video cable for any pins that might be bent or pushed in.
- ◆ Make sure the video cable is properly connected to the back of the computer.
- ◆ Make sure that the video cable is not damaged.
- ◆ Restart the system (leaving the monitor on).



Picture is fuzzy

Adjust the contrast and brightness controls to improve the display image. Refer to “Adjusting display setting” on page 9.

Picture bounces, jitter, or has waves

Make sure that:

- ◆ Non-shielded speakers are not placed too close to the monitor.
- ◆ There are no strong magnetic fields close to the monitor.
- ◆ The monitor is not positioned too close to another monitor, electric fan, fluorescent light, metal shelf, or laser printer.

If none of these suggestions solves the problem, try plugging the monitor into another outlet, preferably one on a different circuit.

Picture has shadows or “ghosts”

- ◆ Remove any extension cables or switchboxes.
- ◆ Check the video connector and the end of the video cable for any pins the might be bent or pushed in.
- ◆ Make sure the video cable is properly connected to the back of the computer.
- ◆ Make sure that the video cable is not damaged.

Color is not uniform

- ◆ Make sure the monitor warms up for at least 30 minutes before making a final judgement about color uniformity.
- ◆ Make sure that:
 - Non-shielded speakers are placed too close to the monitor.
 - There are no strong magnetic fields close to the monitor.



- The monitor is not positioned too close to another monitor, electric fan, fluorescent light, metal shelf, or laser printer.
- ◆ Press the degauss button on the control panel to demagnetize the screen.

Image is not sized or centered properly

Use the size and center controls to adjust the display image as desired. Refer to “Adjusting display setting” on page 9 for information about the OSD control system.

Image cannot be adjusted full-screen

Some video modes used by your monitor produce images that cannot be adjusted all the way out to the bezel edge (the edge where the screen glass and monitor case meet).

This condition does NOT indicate that the monitor is defective. Try selecting a different refresh rate or resolution setting, as described on page 11.



Specifications

All Specifications are subject to changed without notice or obligation.

<i>CRT</i>	15-inch diagonal (13.9 inches viewable), antiglare, antistatic, 90° deflection, 0.28mm dot pitch CRT
<i>Resolution</i>	1280 x 1024
<i>Display colors</i>	Unlimited
<i>Scanning frequency</i>	Horizontal, 30 - 69 KHz Vertical, 50 - 120 Hz
<i>Display area</i>	270 x 200 mm (W x H)
<i>Power supply</i>	90 - 264 VAC, 50/60 Hz, 1.5A
<i>Dimensions</i>	14.2 x 14.8 x 15.2 inches (W x H x D) (360 x 377 x 386 mm)
<i>Weight</i>	31 lbs (14 Kg)
<i>Certifications</i>	UL, CUL, DHHS, FCC Class B, MPR-II, CE Mark, TUV/GS, TCO-92 and VCCI Class 2
<i>Power Management</i>	Meet Energy Star requirements: Suspend mode =< 15 W Active-off mode =< 5 W

Many products for Gateway and its subsidiaries are custom engineered by our suppliers to Gateway specifications and may vary with similarly marketed products.



Regulatory Compliance Statements



American User:

This monitor has been tested to comply with the limits for a Class B digital device, Part 15 of the FCC Rules. These limits are designed to provide protection against harmful interference within a residential area. This equipment is able to radiate radio frequency energy therefore using in nonaccordance with the instructions, may cause harmful interference to radio communications. There is no guarantee that interference will be present in a particular installation. If there is interference, which can be determined by turning this equipment off and on, the user is encouraged to try to correct the interference by the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between your monitor and your computer.
- Connect the monitor into an outlet different from that to which the computer is connected.
- Consult the dealer, our customer service hotline, or an experienced computer hardware technician for help.

Warning!

This device has been tested and found to comply with the limits of a Class B digital device. The accessories associated with this equipment are as follows:

- **Shield video cable**
- **Shield power cord**

Change or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Power Supply Notice

Install only a UL LISTED/CSA LABELED power supply cord meeting the following specifications:

Plug Type Nema-Plug 5-15P

Cord Type SVT or SJT, minimum 3 x 18 AWG

Length Maximum 15 feet

Rating Minimum 7A, 125V



Canadian Users:

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of Industry Canada.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de Classe B prescrites dans le règlement sur le brouillage radioélectrique édicté par Industrie Canada.



Power Supply Notice

Install only a UL LISTED/CSA LABELED power supply cord meeting the following specifications:

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

Utilisez strictement un cordon d'alimentation exhibant les caracteristiques suivantes:

Fiche Type NEMA 5-15p
Cordo SVT ou SJT, minimum 3 x 18 AWG
Longueur 15 pieds/4,5 metres maximum
Capacite 7A, 125V minimum



European Users:

This Information Technology Equipment has been tested and found to comply with the following European directives:

[i] EMC Directive 89/336/EEC amending directive 91/31/EEC 95/263/EE & 93/68/EEC as per

-EN 50081-1: 1992 according to
EN 55022: 1995 Class B, EN 61000-3-2: 1995 or EN 60555-2:1986
EN 61000-3-3: 1995

-EN50082-1: 1992 according to
EN61000-4-2: 1995 or IEC 801-2: 1984, ENV 50140: 1994 or IEC 801-3: 1984
EN 61000-4-4: 1998 or IEC 801-4: 1988

[ii] Low Voltage Directive (Safety) 73/23/EEC as per EN 60950: 1992



Japanese Users:

This equipment is in the Class 2 category (Information Technology Equipment to be used in a residential area or an adjacent area thereto) and conforms to the standards set by the Voluntary Control Council for Interference by Information Technology Equipment aimed at preventing radio interference in such residential area. When used near a radio or TV receiver, it may become the cause of radio interference. Read instructions for correct handling.

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取扱説明書に従って正しい取り扱いをしてください。



N-93

Australian and New Zealand Users:

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to the Australian/New Zealand standard AS/NZS 3548 set out by the Spectrum Management Agency.



EPA Energy Star

This monitor is Energy Star compliant when used with a computer equipped with VESA Display Power Management System (DPMS). The Energy Star emblem does not represent EPA endorsement of any product or service.





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