USER'S MANUAL

19" LCD MONITOR
Model LCM-19v5

Westinghouse

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IMPORTANT PRODUCT SAFETY INSTRUCTIONS

Follow and obey all warnings and instructions marked on the LCD Monitor. For your safety, please read all the safety and operating instructions before you operate the LCD Monitor Keep this user's manual for future reference.

Overloading
Do not overload wall outlets, extension cords, or power strips. This can result in fire or electronic shock.

Power Cord Protection
Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Periodically inspect the cords and each end of the cords for damage. The LCD Monitor shall be installed near a wall socket outlet and the plug on power cord shall be readily accessible.

Ventilation
Slots and openings on the cabinet are provided for ventilation purposes. To ensure reliable operation of the LCD Monitor and to protect it from overheating, these openings must not be blocked or covered.
- Do not block the openings by placing the LCD Monitor on a bed, sofa, rug or other similar surface.
- Do not place the LCD Monitor in a built-in installation such as a bookcase or rack unless proper ventilation is provided and the manufacturer's instruction have been adhered to.

Other Notices
- Avoid exposing the LCD Monitor to direct sunlight or high temperatures.
- Avoid exposing the LCD Monitor to moisture or high humidity.
- Do not attempt repairs yourself. Your warranty does not cover repairs or attempted repairs by anyone not authorized by Westinghouse Digital.
- If your LCD Monitor will not be used for a long period of time, unplug the LCD Monitor.

Precautions
- Avoid touching the screen. Skin oils are difficult to remove.
- Never remove the rear cover. Your LCD Monitor contains high-voltage parts. You may be seriously injured if you touch them.
- Avoid exposing your LCD Monitor to direct sunlight or another heat source. Orient your LCD Monitor away from direct sunlight to reduce glare.
- Always handle your LCD display with care when moving it.
- Place your LCD Monitor in a well-ventilated area; don't place the LCD Monitor in airtight compartments. Do not place anything on your LCD Monitor that prevents heat dissipation.
- Ensure that the area around the LCD Monitor is clean and free of moisture.
- Do not place heavy objects on the LCD Monitor, audio/video cables, or power cord.
- If the LCD Monitor emits smoke, abnormal noise, or a strange odor, immediately turn it off and contact the Westinghouse Service Center.

- **WARNING** – **To Reduce The Risk Of Fire Or Electric Shock, Do Not Expose The LCD Monitor To Rain Or Moisture!** The LCD Monitor shall not be exposed to dripping or splashing and objects filled with liquids, such as vases, shall not be placed on the Monitor.

Safety Guidelines

CAUTION: The power supply outlet should be located near the LCD Monitor and should be easily accessible. Always use the appropriate AC cord that is certified for your specific country. Some examples are listed below:

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

IMPORTANT NOTICE CONCERNING POWER CORD SELECTION

The specific power cord for this LCD Monitor is enclosed and has been selected according to the country of destination and must be used to prevent electric shock. Use the following guidelines if it is necessary to replace the original cord set, or if the cord set is not enclosed. The female receptacle of the cord set must meet IEC-60320 requirements and should look like Figure A1 below:

Figure A1 Figure A2

For the United States and Canada

In the United States and Canada the male plug is a NEMA5-15 style (Figure A2), UL Listed, and CSA Labeled. For LCD Monitors that are placed on a desk or table, type SVT or SJT cord sets may be used. For LCD Monitors placed directly on the floor, only SJT type cord sets may be used. The cord set must be selected according to the current rating for the LCD Monitor. Please consult the table below for the selection criteria for power cords used in the United States and Canada.

Cord Type	Size of Conductors in Cord	Maximum Current Rating of Unit
SJT	18 AWG	10 Amps
	16 AWG	12 Amps
	14 AWG	12 Amps
SVT	18 AWG	10 Amps
	17 AWG	12 Amps

FCC Compliance Statement

This equipment has been tested and complies 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 may cause harmful interference to radio communications if not installed and used in accordance with the instructions. 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 LCD Monitor and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the Westinghouse Service Center or an experienced radio/Monitor technician for assistance.

FCC Warning

To assure continued FCC compliance, the user must use a grounded power supply cord and the provided shielded video interface cable with bonded ferrite cores. If a BNC cable used, use only a shielded BNC (5) cable. Also, any unauthorized changes or modifications not expressly approved by Westinghouse Digital will void the user's authority to operate this device.

Cleaning the LCD Monitor

- **MAKE SURE THE LCD MONITOR IS TURNED OFF**
- **NEVER SPRAY OR POUR ANY LIQUID DIRECTLY ONTO THE SCREEN OR CASE**

To clean the screen:
1. Wipe the screen with a clean, soft, lint-free cloth. This removes dust and other particles.
2. If it still is not clean, apply a small amount of non-ammonia, non-alcohol based glass cleaner onto a clean, soft, lint-free cloth, and wipe the screen.

To clean the case:
1. Use a soft, dry cloth.
2. If it still is not clean, apply a small amount of non-ammonia, non-alcohol based, mild non-abrasive detergent onto a clean, soft, lint-free cloth, then wipe the surface.

Disclaimer
Westinghouse Digital does not recommend the use of any ammonia or alcohol-based cleaners on the LCD Monitor screen or case. Some chemical cleaners have been reported to damage the screen and/or LCD Monitor case. Westinghouse Digital will not be liable for damage resulting from the use of any ammonia or alcohol-based cleaners.

FEATURES

- Bright Display Image

- Lightweight

- Fast Response Time

- Stereo Speakers

- Power Saver

- Kensington Security Lock Compatible

- Safety Certifications

Power Saver

A power control system, *Power Saver*, is installed inside the LCD monitor. If the LCD monitor has not been used for a certain period of time, the system will turn the LCD monitor to low voltage mode to save electrical power. Slight movement of the mouse or pressing any key on the keyboard will return the original screen image. You can use your PC to set the function.

The LCD monitor is compatible with EPA ENERGY STAR and NÜTEK if used with a VESA DPMS computer. To save power, turn off the LCD monitor power when not in use.

Plug & Play

VESA Plug and Play eliminates the complicated and time-consuming installation process.   Your computer system will identify and automatically adjust the LCD monitor. The LCD monitor uses **Display Data Channel (DDC)** to send **Extended Display Identification Data (EDID)** to the computer system, so the computer system can automatically adjust the LCD monitor.

INSTALLATION

Congratulations on your purchase of a Westinghouse 19" LCD Monitor. Sleek and practical, this lightweight and wall-mountable LCD monitor delivers a crisp and clear display optimized for 1280 x 1024 display resolution.

Package Contents

Your product package includes:
- 19" Westinghouse LCD Monitor
- Detachable Base Stand
- AC Power Cord
- VGA (HD15) Male – Male Cable
- 3.5 mm Male – Male Stereo Audio Cable
- User's Manual
- Warranty Card

Front View of the LCD Monitor

Use the buttons on the front of the LCD Monitor to display the On Screen Display (OSD). The OSD controls are defined in "OSD Functions" on page 11.

1. Turbo/▲	• Switch between picture, text and economy modes. • Move a selection up when the OSD is displayed.
2. Auto/▼	• Automatically optimize positions, phase, and clock when the OSD is not displayed. • Move a selection down when the OSD is displayed.
3. ◑/◄	• Quick contrast adjustment or decrease contrast/brightness. • Move a selection left when the OSD is displayed.
4. ☼/►	• Quick brightness adjustment and increase contrast/brightness. • Move a selection right when the OSD is displayed.
5. ▤	• Enter and exit the OSD menu
6. ⏻	• Power On and Off button and indicator LED. • **Blue:** Normal • **Orange:** Power Saving • **Off:** Power Off
7. Speakers	• Audio Output.

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Rear View of the LCD Monitor
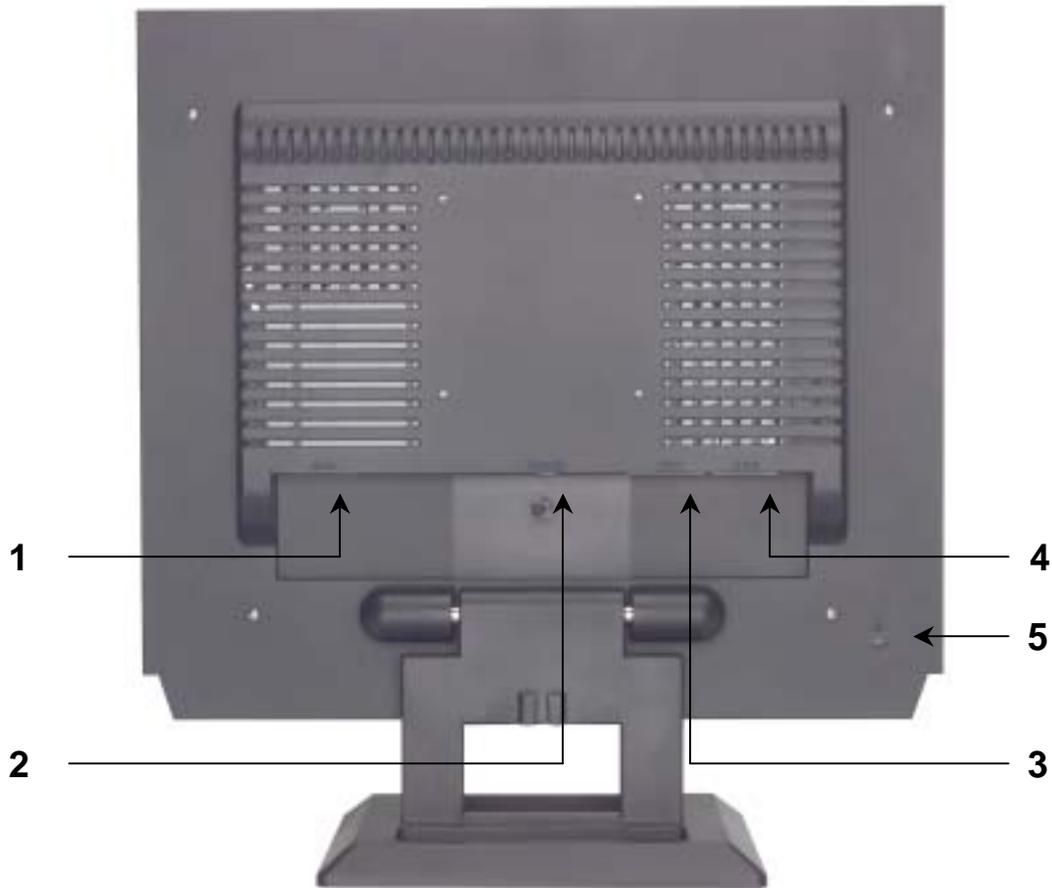
1. AC IN (Power)	• Connect the power cord from AC IN to a power source.
2. Audio-IN	• Using the cable provided, connect to the Audio out (Green) from a computer.
3. DVI-D	• Using a 24-pin DVI cable, connect to a computer or other device with a DVI output.
4. D-SUB (VGA)	• Use the enclosed 15-pin VGA cable, connect to a computer or other device with a VGA output.
5. Lock Hole	• For use with Kensington security locks.

Installation

1. Attaching the Base Stand to the LCD Monitor

Attach the base stand to the LCD monitor stand neck. Align the holes and tabs; press in and snap into place. To remove the base stand, press the tabs on the bottom of the stand neck and remove the base.

2. Connect Audio and Video Cables to a PC

Connect one or all of the following into the back of the LCD Monitor

IMPORTANT: Before beginning, make sure all devices are turned off.

AUDIO CONNECTION: Connect a stereo mini cable from the PC's AUDIO-OUT port to the AUDIO-IN port on the LCD Monitor.

DVI-D CONNECTION: Connect a Digital DVI cable from your PC to the LCD Monitor DVI-D port.

VGA CONNECTION: Connect an analog VGA cable from your PC VGA OUT port to the LCD Monitor D-SUB port.

3. Connect Power Cables

Connect the AC power adapter cord to the LCD Monitor (to the connector labeled "AC-IN") and then connect the female AC power cord to the adapter. Plug the AC power cord into a properly grounded AC outlet.

4. Turn the Power On

Press the power button on the front of the LCD monitor. The LED light will turn blue if a signal input is detected or it will be orange if no input is detected.
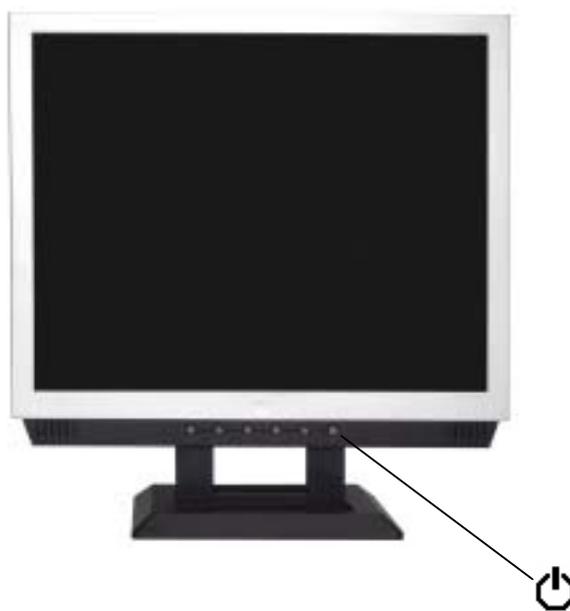
Mounting the Monitor on a Wall

1. Remove the base from the LCD monitor.
2. Remove the plastic covers and screws to remove the LCD monitor stand neck.
3. Use the 100mm VESA hole pattern on the back of the monitor to secure a Westinghouse Décor Wall Mount to the monitor and mount it on a wall.

Step 3

Step 1

Step 2
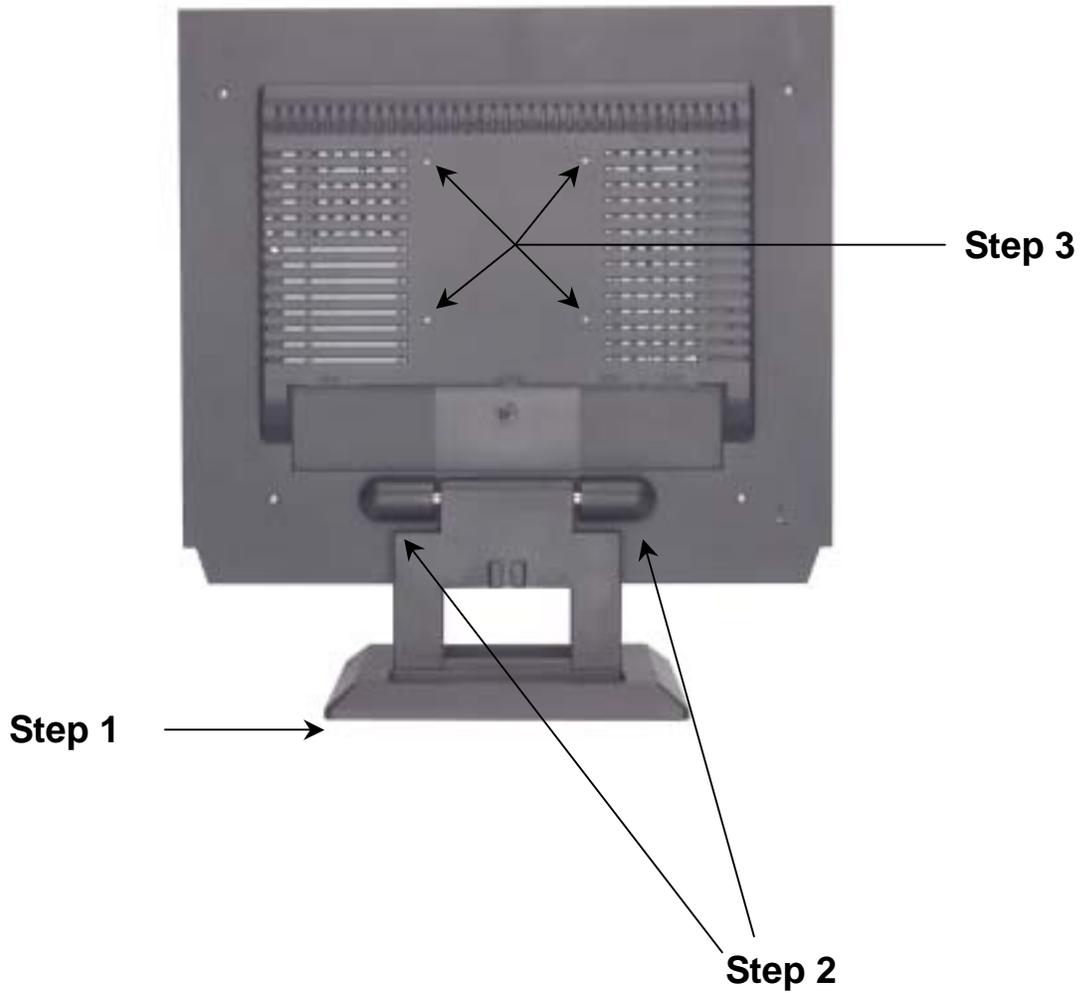
OSD Menu Functions

All the function settings for the LCD monitor are controlled via the control keys located on the bottom part of the front panel. To display the OSD main menu, press the "Menu" keypad button on the control keys. (Note: The OSD menu display will disappear automatically after approximately 10 seconds, if no action is taken.)

The LCD monitor has been adjusted to optimal settings before shipment. Adjustments to the monitor settings can be made using the OSD menu.

- Press the "Menu" ▤ button to display the OSD.
- Press the ▲ or ▼ button to select the function to be adjusted.
- Press the ▶ button to access the function to be adjusted.
- Press the ▲ or ▼ button to select the sub-function to be adjusted.
- Press the ◄ or ▶ buttons to change the current setting of the sub-function.
- To go back to the previous menu, press the ▤ button. Changes are saved automatically.
- To exit the OSD menu press "Menu" ▤ again. It automatically will save any changes that have been made.
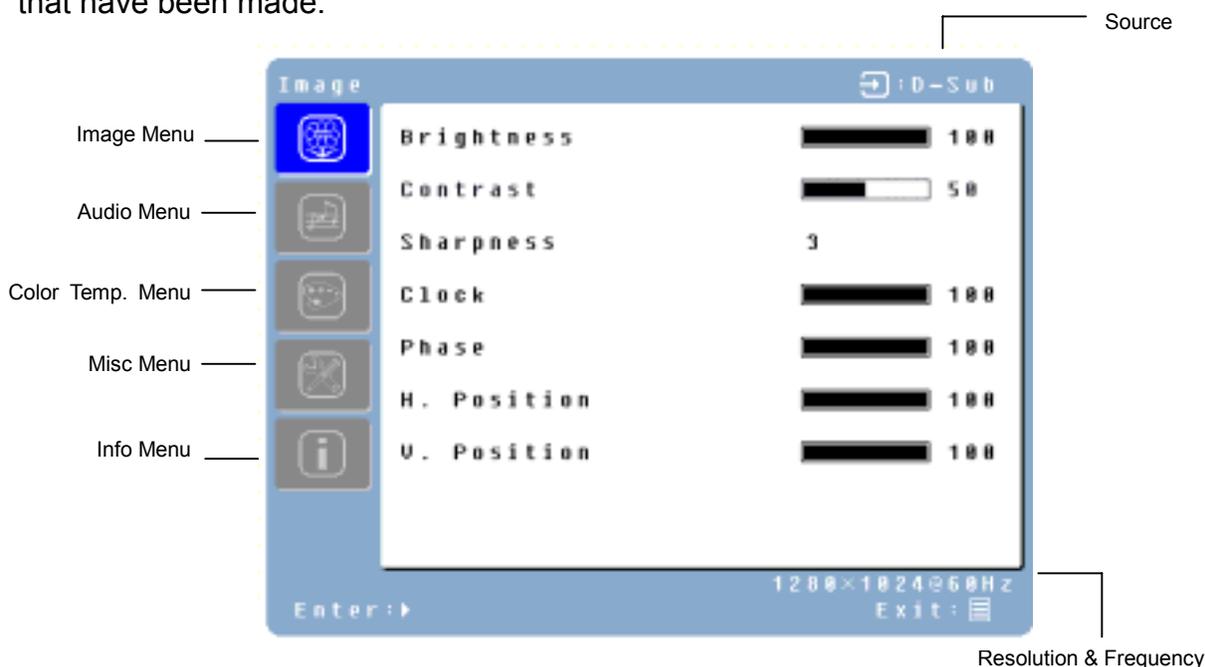
NOTES:
- The OSD turns off several seconds after you stop pressing the buttons while performing an adjustment.
- Any changes are automatically saved in memory when the OSD turns off. Turning off the power should be avoided while using the menu.
- Adjustments for clock, phase, and positions are saved for each individual signal timing. Except for these adjustments, all other adjustments have only one setting, which applies to all signal timings.
- The icon color will change from blue to white when a function is selected.

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The following is a list of the OSD sub-menus for the LCD monitor:

Image Menu
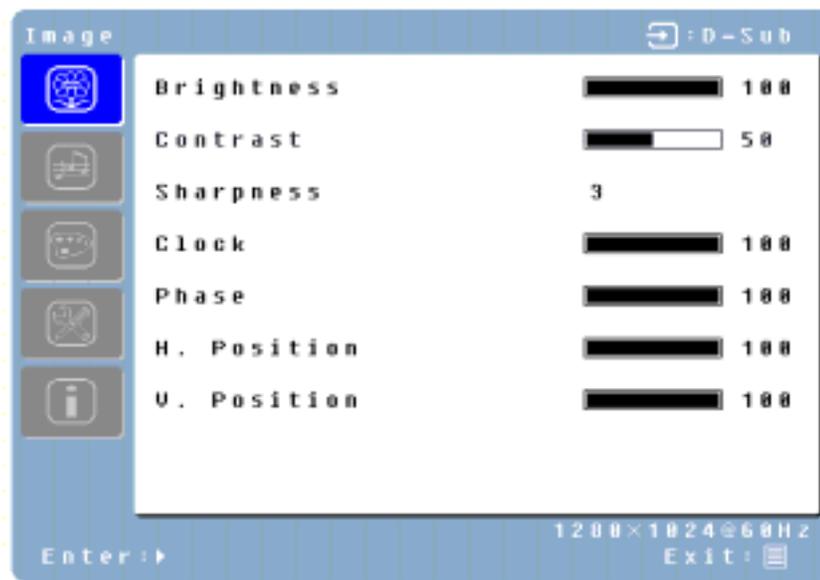
Function	Description
Brightness	Adjust the brightness of the screen.
Contrast	Adjust the contrast of the image.
Sharpness	Adjust the picture sharpness of low resolution pictures.
Clock	Adjust the LCD monitor clock. (Optional)
Phase	Adjust the LCD monitor phase. (Optional)
H. Position	Move the image left or right on the screen. (Optional)
V. Position	Move the image up or down on the screen. (Optional)

Audio Menu

Function	Description
Volume	Adjust the volume of the audio.
Mute	Disable the audio.

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Color Menu

```
Color                              :D-Sub

        Color Temp.           User

           Red              ███    50

           Green            ███    50

           Blue             ███    50


                              1280×1024@60Hz
 Enter:▶                      Exit:▤
```
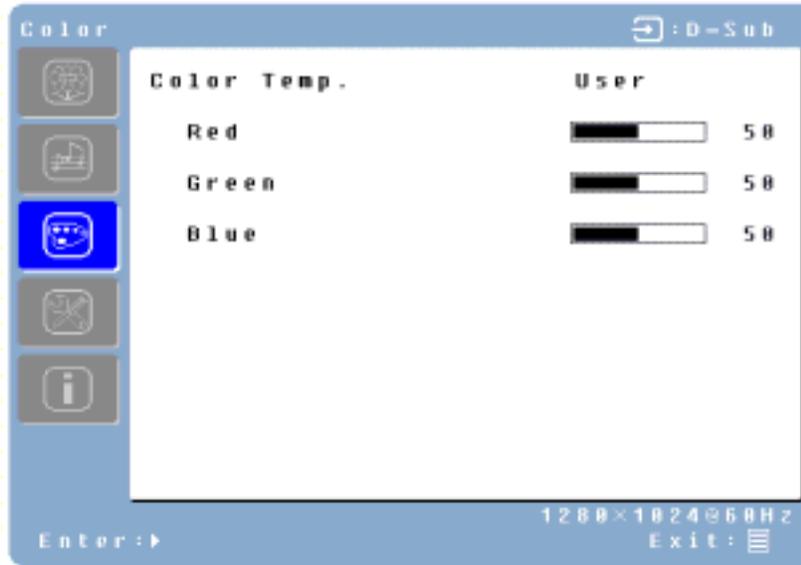
Function	Description
Color temp	User/9300K/7500K/6500K/sRGB
Red	Adjust red color.
Green	Adjust green color.
Blue	Adjust blue color.

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Misc Menu
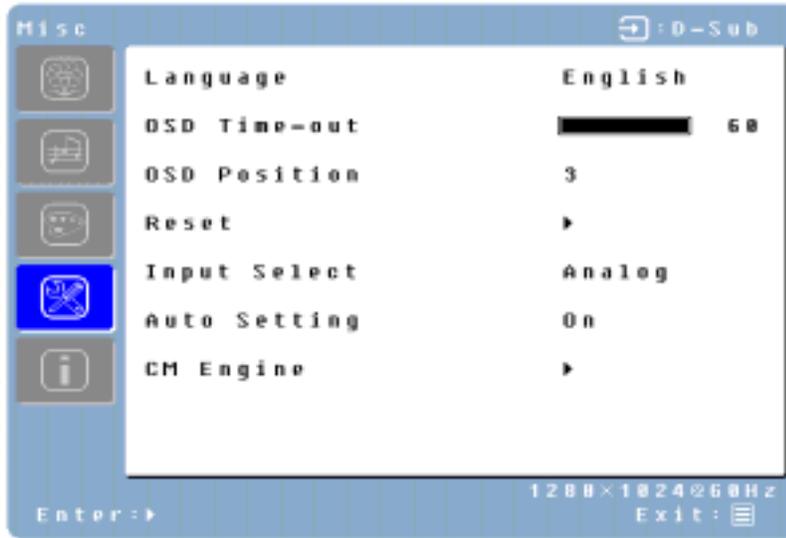
Function	Description
Language	English, Français, Italiano, Deutsch, Español, 日本語, 简体中文, 繁體中文, Русский,
OSD time-out	Adjust OSD display time setting.
OSD position	Move OSD display position to any one of the following 5 positions within the overall screen.
Reset	Restore LCD monitor to factory settings.
Input Select	Analog / Digital
Auto setting	Adjust clock, phase and positions automatically. (Optional)
CM Engine	Color Management Engine. (Optional)

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Info Menu

Function	Description
Resolution	Displays resolution.
Horizontal frequency	Displays horizontal frequency.
Vertical frequency	Displays vertical frequency.

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Quick Adjustments

You can skip the Menu pages and display an adjustment scale directly by using the following button operations:

- **Brightness:** Press the ☼ Brightness button when the Menu is not displayed.

```
Brightness          �**████████**  100
                              Exit: ▤
```

- **Contrast:** Press the ◑ Contrast button when the Menu is not displayed.

```
Contrast            ▮████████  100
                              Exit: ▤
```

- **Auto Setting:** Press the Auto button when the Menu is not displayed.

```
Auto  Adjust...
```

- **Turbo:** Press the Turbo button when the Menu is not displayed to switch between picture modes.

Display Modes

The monitor backlighting can be controlled by using the Turbo button on the control keypad. There are 3 modes: Economy, Text, and Picture. To toggle between these modes, press the Turbo key until the mode you desire is selected. These modes automatically change the backlighting levels between bright, brighter, and brightest.

1. **Economy Mode** – Reduced brightness

Economy

Exit:

2. **Text Mode** – Normal

Text Mode

Exit:

3. **Picture Mode** – High brightness

Picture Mode

Exit:

NOTES:

- Changing to a lower brightness mode can lessen eye fatigue.
- Change from Picture Mode to Text Mode when working with text.
- Change from Text Mode to Economy Modes when viewing the screen for long periods.

Appendix

Specifications

Item		Specification
Panel Size	Type	19" Color TFT Active Matrix LCD. Anti-static and hard coated.
Optimum Resolution		1280 x 1024
Response Time		10 ms
Contrast Ratio		400:1
Maximum Brightness		280 Nits
Viewing Angles		150° (H) / 130° (V)
Wall/Arm Mount	Physical	Directly wall mountable 100mm VESA®
Input Signal	Video	HD-15 pin mini D-Sub (VGA connector) 24 pin DVI-D
	Audio	3.5mm Mini-Stereo jack male-male
Speaker Output		Built-in audio amplifier and speakers, 2.5 watts * 2 channels
Power	Voltage	100-240 VAC, 50/60 Hz (auto switch), 1.5A
Operating Conditions	Temperature	32° F to +95° F (0° C to +35° C)
	Humidity	20% to 90% (no condensation)
	Altitude	Up to 3,000 meters
Storage Conditions	Temperature	-4° F to +140° F (-20° C to +60° C)
	Humidity	10% to 90% (no condensation)
	Altitude	Up to 12,000 meters
Dimensions	Unit	16.4 (w) x 17.3 (h) x 2.0 (d) in
	Carton	18.9 (w) x 19.2 (h) x 5.6 (d) in
Weight	Unit	10.1 lb (4.6 kg)
Regulations		FCC-B, UL, CSA (CUL), Energy Star®, Plug & Play
Power consumption	DC On	<58W (Blue LED)
	DC Off	<2W (LED OFF)
Lamp Life		40,000 hours

Troubleshooting

No Power
- Make sure the DC cord is plugged into the back of the LCD monitor.
- Make sure the AC power cord is securely connected to the AC socket.
- Plug another electrical device (like a radio) to the power outlet to verify that the outlet is supplying the proper voltage.

No Image
- Make sure the power button is ON.
- Check whether the LCD monitor and computer power cords are plugged in and check the power supply.

Power is ON but No Screen Image
- Adjust the brightness and contrast levels.
- Make sure the VGA or DVI cable is securely connected to both the computer and monitor.

"Out Of Range"

- Check the computer image output resolution and frequency and compare the value with the preset values of the computer's graphics card.

Fuzzy Image
- Adjust the Phase setting on the monitor.

Image Too Bright or Too Dark
- Adjust the brightness and contrast levels using the OSD.
- Make sure that the computer is not displaying an irregular image.
- Check the VGA or DVI connection between the computer and LCD monitor.
- Perform Auto Adjust.

Distorted Image

- Reset the LCD monitor by performing the "Reset" function using the OSD.
- Remove extra accessories (such as a VGA extension cord).

Troubleshooting (cont.)

Image is Not Centered (size is not scaled correctly)

- Perform Auto Adjust
- Adjust the horizontal and/or vertical position using the OSD.
- Check image size setting.

Colors are Not Correct

- Adjust the color setting using the OSD.

No Sound

- Check the audio connection.

Mounting the LCD Monitor on a Wall

- Check the Westinghouse Digital website for wall mounting solutions.
- Use the 100mm VESA hole pattern to secure a mounting plate to the LCD monitor.
- Use professional installation to reduce the risk of injury and damage.

Additional Questions

- See our website at www.westinghousedigital.com.
- Contact Westinghouse Digital Customer Service at (866) 287-5555 or write us at service@westinghousedigital.com.