


USER'S MANUAL

**17" Personal LCD TV
model LTV-17v1**



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IMPORTANT PRODUCT SAFETY INSTRUCTIONS

Read carefully and follow all warnings and instructions in this User's Manual and those marked on the product *before* you operate your television. Failure to follow warnings can result in personal injury or damage to product. Keep this User's Manual in a convenient location for future reference.

Proper Positioning of Television

Always handle your LCD television with care. The product can be heavy and bulky, requiring the assistance of a second person to move. Avoid touching the LCD screen. Skin oils are difficult to remove.

Always position your LCD television on a stable and level surface. Unstable surfaces can cause your LCD to topple and fall, resulting in possible damage or injury.

Avoid exposing the LCD display to direct sunlight or high temperatures, which can damage or shorten its useful life. Do not place near heat sources such as radiators, heat registers, or other appliances that generate heat.

Avoid exposing the LCD display to rain, water, moisture or high humidity. Do not place your LCD near basins or sinks where it may come in contact with water.

Orient your LCD display away from direct sunlight to reduce glare.

Never place heavy or sharp objects on the LCD display, video cable, or power cord.

Overloading Outlets

Do not overload electrical power sources when installing television. Overloading wall outlets, circuits, or extension cords can result in overheating, fire, or electric shock. Use only grounded or polarized outlets.

Power Cord Protection

Minimize wear on power supply cords. Power supply cords should be routed away from foot traffic and contact with other objects. Do not route power cord under rugs or carpeting. The cord should never be severely bent, pinched, or twisted. Periodically inspect power cords for wear or damage, particularly near plug and the point where it exits from the product. Unplug cord and discontinue use if damage is discovered.

Ventilation

Slots and openings on the cabinet are provided for ventilation purposes. To ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered. Keep LCD a minimum of four (4) inches away from any wall to assure sufficient airflow and ventilation. Increased temperatures may cause fire or device failure.

To assure proper ventilation, do not block the openings by placing the product on a bed, sofa, rug or other similar surface. Do not place the product in a built-in installation, such as a bookcase or an enclosed rack, unless proper ventilation is provided.

Other Notices and Precautions

Caution: Never remove the rear cover. There are no user serviceable parts inside. Your LCD display contains high-voltage parts. You may be seriously injured if you touch them.

Do not attempt repairs yourself. Your warranty does not cover repairs or attempted repairs by anyone not authorized by the manufacturer. Refer all servicing and repairs to qualified service personnel.

If smoke, abnormal noise, or strange odor is present, immediately unplug the power cord. Contact a qualified service technician

If your LCD display will not be used for extended periods of time, unplug the power cord and remove the batteries from the remote control.

Antenna Installation Safety

Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANS/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Lightning

For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges. Do not disconnect the antenna or the power cord during a heavy storm – lightning may strike while you are holding the cable cord, causing serious injury. Turn off your LCD display and wait for the weather to improve.

Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them may be fatal.

Cleaning the LCD Display

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

To clean the screen:

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

To clean the case:

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

Disclaimer

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

Safety Guidelines

Warning: This device must be operated with the original power supply, part number: ADP-60CF A.

CAUTION: The socket-outlet should be installed near the equipment and should be easily accessible.

CAUTION: Use a power cable that is properly grounded. Always use the appropriate AC cord that is certified for the individual 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 power cord set for this unit has been enclosed and has been selected according to the country of destination and must be used to prevent electric shock. Use the following guidelines if it is necessary to replace the original cord set, or if the cord set is not enclosed.

The female receptacle of the cord set must meet IEC-60320 requirements and may look like (Figure A1 below):



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 units that are mounted on a desk or table, type SVT or SJT cord sets may be used. For units that sit on the floor, only SJT type cord sets may be used. The cord set must be selected according to the current rating for your unit. Please consult 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 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 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 equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Warning

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

Installation

Congratulations on your purchase of a Westinghouse 17" LCD TV display. Sleek and practical, this lightweight and wall-mountable LCD TV delivers crisp and vibrant video, and doubles as a superb SXGA computer monitor. Your new Westinghouse 17" LCD TV not only acts as your television, but also your computer monitor—making it a practical solution for tight spaces in the office, bedroom, or kitchen. Watch television, play video games, e-mail, or surf the Internet.

Package Contents

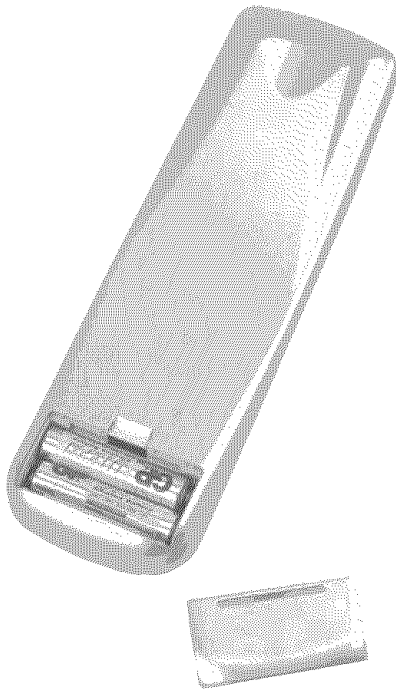
Your LCD TV package includes:

- LCD TV Display
- LCD TV Base Stand Attachable
- Remote Control (2 AAA batteries are included)
- Cables
 - DC Power Adapter Supply
 - AC Power Adapter Cord
 - VGA (HD15) Male – Male Cable
 - DIN -> YPbPr and S-Video Adapter Cable
 - 3.5 mm Male – Male Stereo Audio Cable
- Literature
 - Quick Install Instructions
 - User's Manual
 - Warranty Card

Important

Save the original box and all packing material for future shipping needs.

1. Insert Remote Control Batteries



- Remove the battery cover.
- Insert the batteries, paying careful attention to match the corresponding (+) and (–) markings on the battery compartment.
- Re-attach the battery cover.

CAUTION

- Only use the specified AAA batteries.
- Do not mix new and old batteries. This may result in cracking or leakage, which may pose a fire risk or lead to personal injury.
- Insert batteries according to (+) and (–) markings. Inserting the batteries incorrectly may result in cracking or leakage, which may pose a fire risk or lead to personal injury.
- Dispose of the battery in accordance with local laws and regulations.
- Keep the battery away from children and pets.
- When the remote control will not be used for an extended period, remove the batteries.

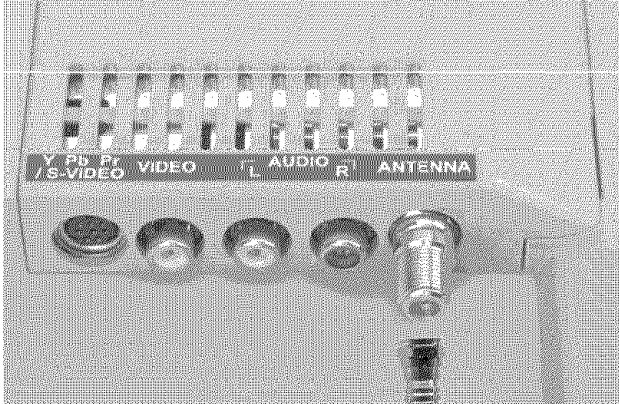
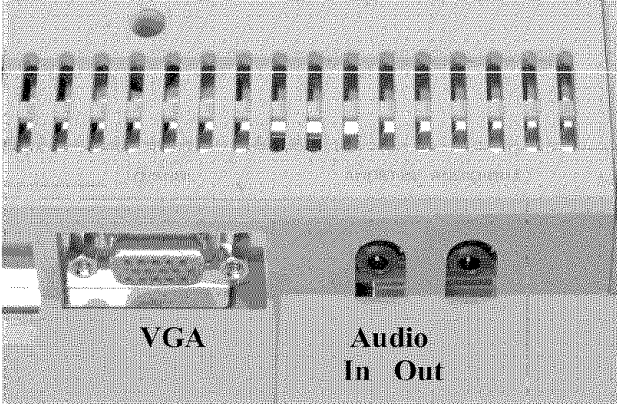
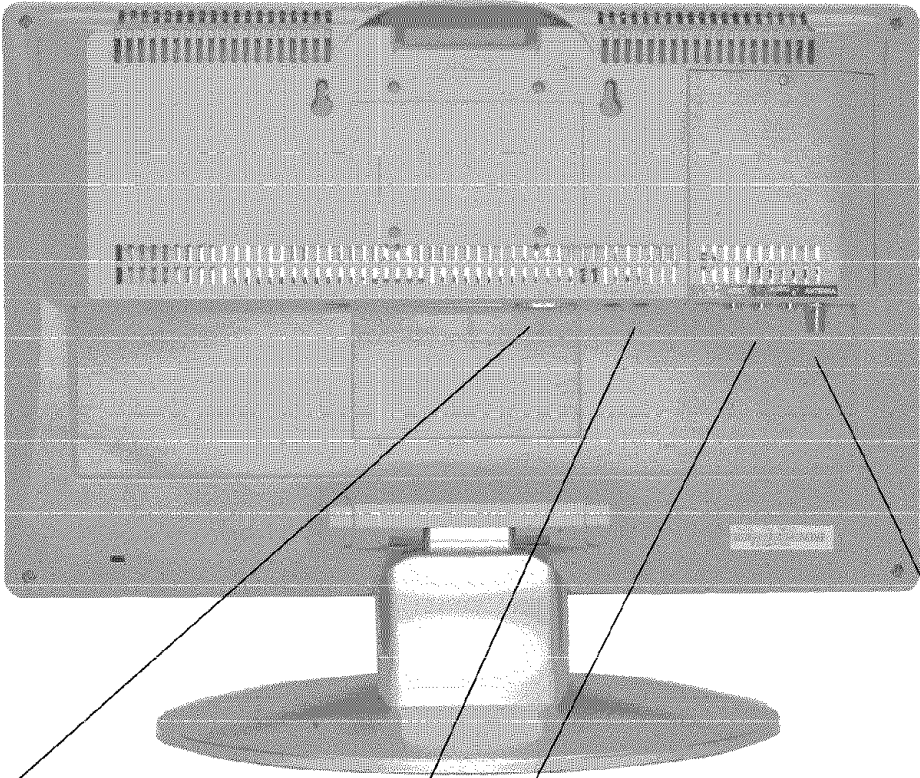
2. Attach Base Stand to LCD TV

Attach the Base Stand to the LCD TV stand neck. Align the holes and tabs, press in and snap into place.



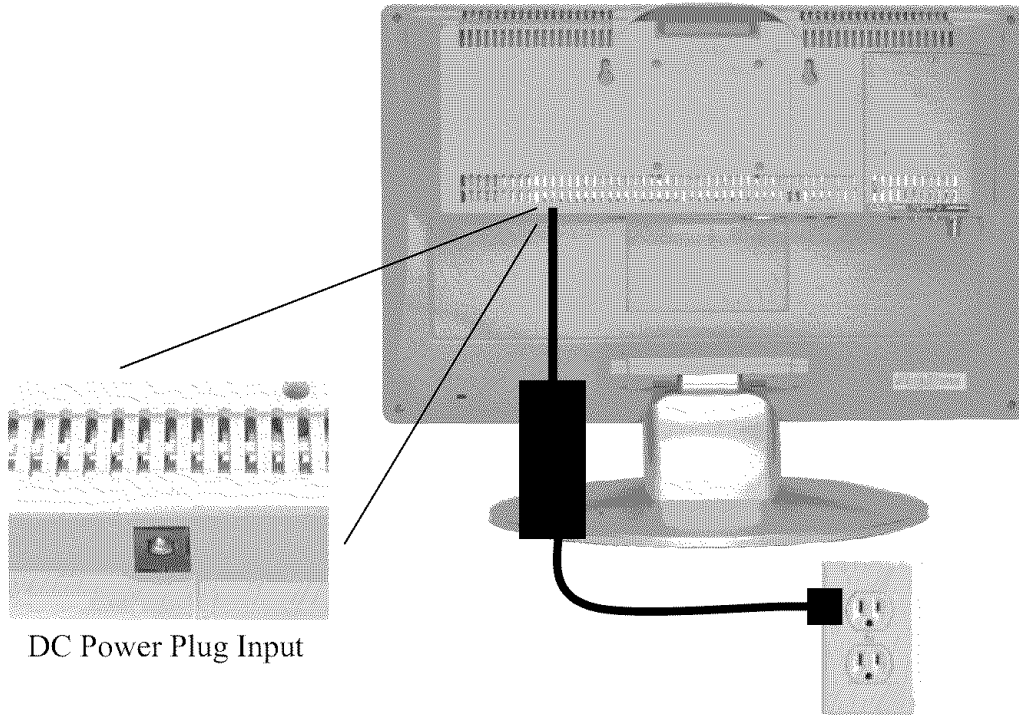
3. Connect Antenna, Cable, Video, S-Video, and/or YPbPr Cables

Connect video and audio cables from compatible devices to the back panel of the LCD TV.



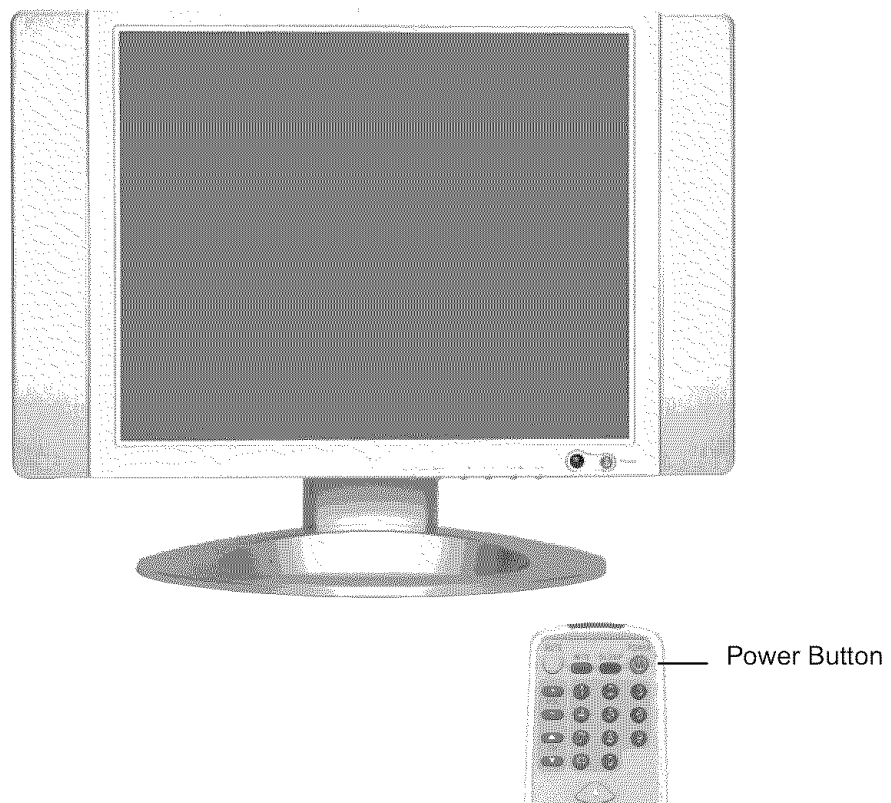
4. Connect power cables

Connect the DC power adapter cord to the LCD TV and then connect the female AC power cord to the adapter. Plug the AC power cord into a properly grounded AC outlet.



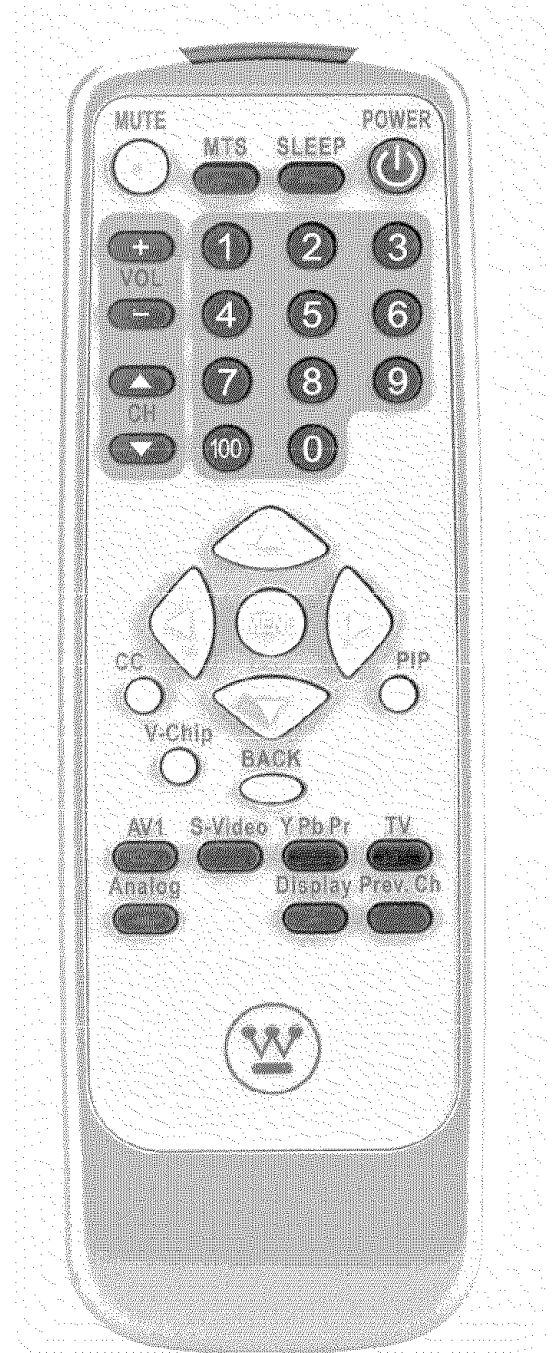
5. Turn Power On

Press the power button on the front of the LCD TV display or on the remote control. LED light will turn blue if signal input is detected, orange if no signal.



6. Programming TV Channels

1. Select TV as the input using the TV button on the remote.
2. Push Menu button and bring up OSD Display Menu.
3. Move using the _/_ arrow keys to select the TV Tuner Menu.
4. Using the _/_ arrow keys or the MENU key, step down into the menu and highlight the Auto scan function. Push _ arrow key and Channel Scan will commence.
5. Once completed, switch channels by using the CH _/_ arrow keys on the remote. Using the _/_ arrow keys will change the channel that is displayed on the CH edit area.
6. To ADD/DEL channels step down into the CH edit function to select channel to be added or deleted.
7. Step down to the Status function and using the _/_ arrow keys select Off or On depending on whether you want to delete or add the channel.
8. Adjust VOL + or VOL - to preference.
9. Enjoy watching TV!

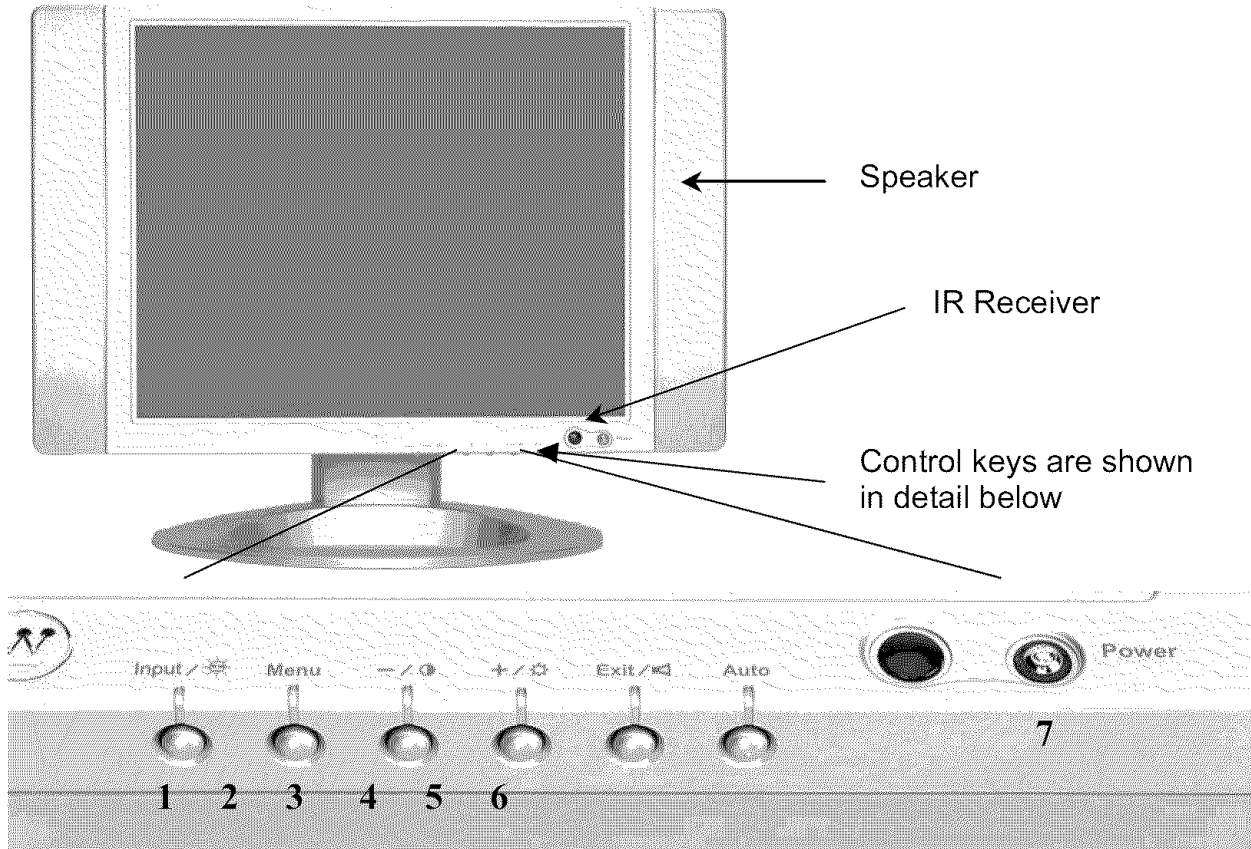


Controls & Connections

This section describes the front panel controls, and remote control in more detail.

Front View of the Product

Use the buttons on the front panel control to display and adjust the On Screen Display (OSD). The OSD controls are explained at the bottom of the page and are defined in the "OSD Functions" section.



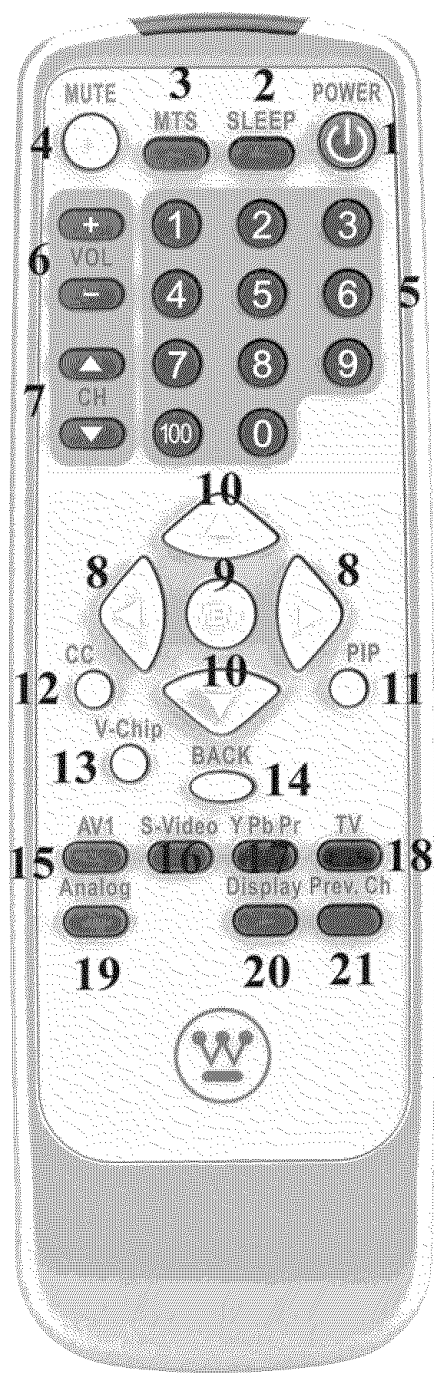
Button	Mode	TV Source	PC Source	Input Menu	OSD Menu	Contrast Mode	Volume Menu	Brightness Menu
1	Input /	Display input menu. Hold for 2secs, and then press again to set power savings level.	Hold for 2secs, and then press again to set power savings level.	Scroll down				
2	Menu	Display OSD menu		Scroll down	Scroll down			
3	- / Contrast	CH-	Display contrast menu	Scroll up	Navigate left	Decrease contrast	Decrease volume	Decrease brightness
4	+ / Brightness	CH+	Display brightness menu	Select input source	Navigate right	Increase contrast	Increase volume	Increase brightness
5	Exit / Volume Control	Display volume menu	Display volume menu	Exit input menu	Exit OSD menu	Exit contrast menu	Exit volume menu	Exit brightness menu
6	Auto		Auto-adjust PC image.					
7	Power	ON or OFF	ON or OFF					

Remote Control

The Remote Control should be used within 5 meters of the LCD TV.

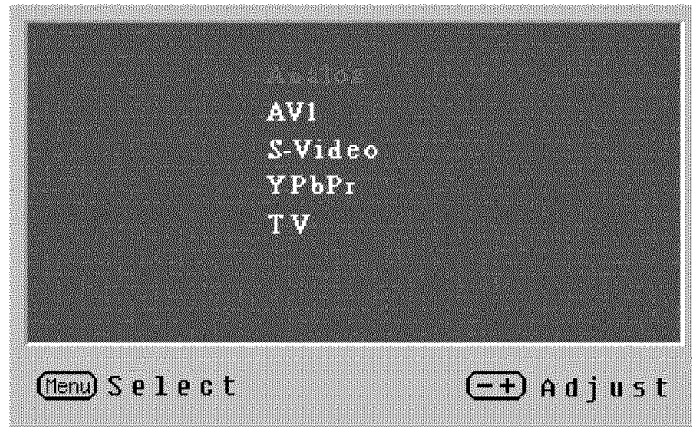
1. **POWER**
Switch the power between on & off
2. **SLEEP**
Use to shut off TV after a period of time
3. **MTS**
Multi-language, stereo and mono selection
4. **MUTE**
Switch the sound between on & off
5. **CHANNEL NUMBER KEY 0-9, 100**
Direct channel selection by number
6. **VOLUME +/-**
Volume Up/Down adjustment; also available on key controls and OSD menu control
7. **CHANNEL +/-**
Channel Up/Down adjustment; also available on key controls and OSD menu
8. **+/- Arrow Keys**
Step Down into OSD Menus
9. **MENU**
Press to enter into OSD Menus
10. **+/- Arrow Keys**
Allows for adjustment of OSD functions and Navigating the OSD Menus; also available on key controls.
11. **PIP**
Available only in Analog Mode, used to navigate through the PIP OSD menus. Audio for PIP is also controlled from the menus.
12. **CC**
Set Closed Caption and Text modes toggle through OFF, CC1, CC2, CC3 etc.
13. **V-Chip**
Set Parental and Movie Rating Block/UnBlock features. Navigation through OSD menus. Pin Code is also set here.
14. **BACK**
Exits from the current OSD menu back-up one level.
15. **AV1 - CVBS**
Push to select composite video source
16. **S-VIDEO**
Push to select S-Video source
17. **YPbPr**
Push to select component video source

18. **TV**
Set source to TV tuner
19. **Analog**
Push to select PC VGA source
20. **DISPLAY**
Display the channel information
21. **PREV. CH**
Recall the previous channel



Input/☀

The input and PC display mode allows the user to select the source by depressing the input button and cycling through each source, selecting menu on the remote will select the source.



Display Modes

Pressing the Input/☀ button on the control keys for more than 2 seconds will result in placing the LCD TV into a unique display mode. There are 3 modes that the user can select. Economy, Text and Picture. To toggle between these modes press the Turbo key again until the mode you desire is selected. These modes automatically change the backlighting levels between bright, brighter and brightest.



Auto

Pressing the AUTO button on the control keys while in analog PC mode will adjust automatically the picture and synch the LCD TV monitor.



OSD Functions

This section describes each on-screen display (OSD) command. There are different OSD menus depending on whether you are in TV mode or Analog PC mode.

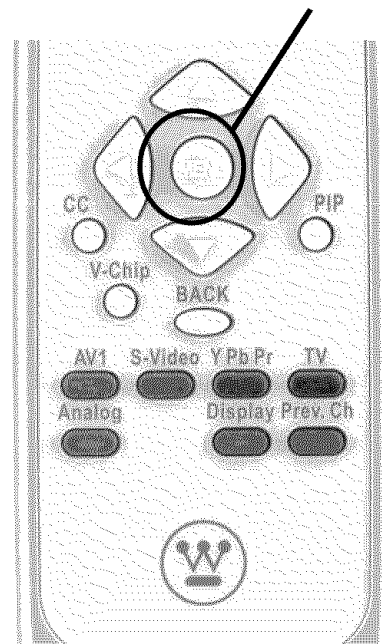
All the function settings for your LCD TV display are controlled either via the remote control or using the control keys located on the bottom right of the front panel. To display the OSD main menu, press the Menu button on the control keys or the MENU key on the remote control. Use either the Menu key or the **_/_** arrow keys to navigate within the menus. The **_/_** arrow keys are used to change the values of the functions that are selected in the OSD menu. The BACK key on the remote control or Exit button on the control keys allows you to exit out of the OSD menus and functions.

The OSD menu display will disappear automatically after 10 seconds, if no action is taken. To adjust the time the OSD menu displays go to the following OSD Menu:

Main TV Menu



Enter OSD Menus by pressing **MENU** key



Function Name	Explanation
Brightness	Brightness adjustment
Contrast	Contrast adjustment
Color	Adjust the Color Levels
Hue	Adjust the Video Hue level
Sharpness	Adjust the Video Sharpness
Recall	Reset to default settings

Audio Adjustment Menu

Selecting this menu and using the **_/_** arrow keys will change the values of the functions that are selected in the OSD menu.



OSD Language Menu

Selecting this menu and using the **_/_** arrow keys will change the language displayed and used for the OSD menus. There are 9 OSD menu languages available.



TV Channel Scanning Menu

Selection of this menu provides for the scanning of the antenna input source in order to tune in channels. Using the _/_ arrow keys will toggle between the yes and no selections. To add/delete a channel move to the Status selection and toggle between off and on.



Function Name	Explanation
Auto Scan	Selecting yes will start to program the channels available from the antenna input source.
Blue Screen	Toggle between video blanking between channel changes default is No
Ch Edit	Select the channel to Edit using <u>_/_</u> arrow keys
Status	Select Off to delete channel and On to add channel.

OSD Menu

Selecting this menu allows for the control of the OSD menus. Using the _/_ arrow keys will change the values of the each function in the menu.



Function Name	Explanation
Black Level	Sets the backlight level of the LCD TV – Default value is 50
OSD Time-out	Sets the time in seconds that the OSD menu is displayed. Default value is 10 seconds. Range from 0 – 60 seconds.
OSD Position	Sets the position of the OSD menus on the display. Default is 1 which is upper left corner.

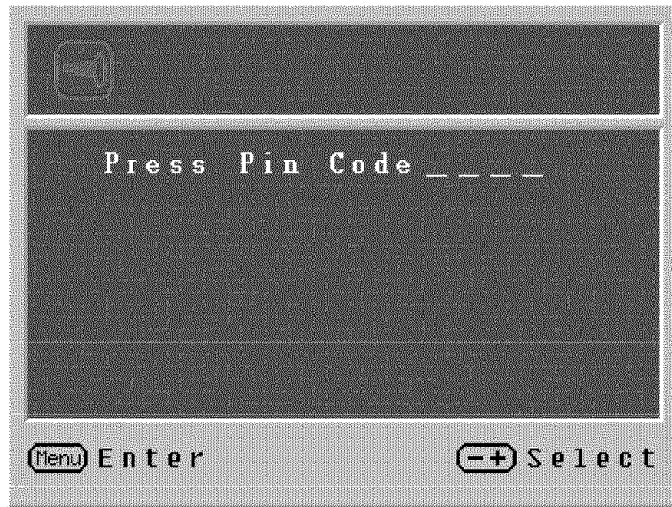
Antenna/CATV Input Menu

Selecting this menu chooses the source when tuning the TV. The selections available are between Air which will tune between channels 2-69 and a cable TV source which will tune between channels 1-125. For different cable systems the choices are between STD, IRC or HRC. Default setting for the LCD TV is set to STD.



V-Chip and Parental Control Menu

To access the PARENTAL CONTROL menu press the V-Chip button located on the remote control. Enter the Pin Code (default is 0000).

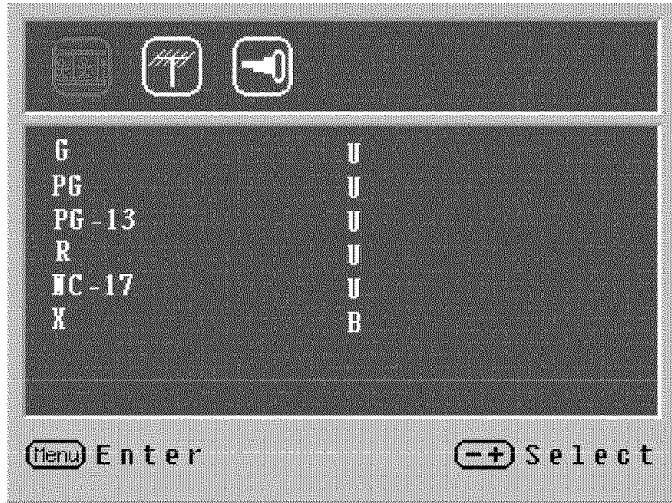


To change the Pin Code select the following menu. Pin Code default is 0000.



MOVIE Rating Menu

Set the Movie Ratings to block selected Movie channels. U – Unblock, B – Block.



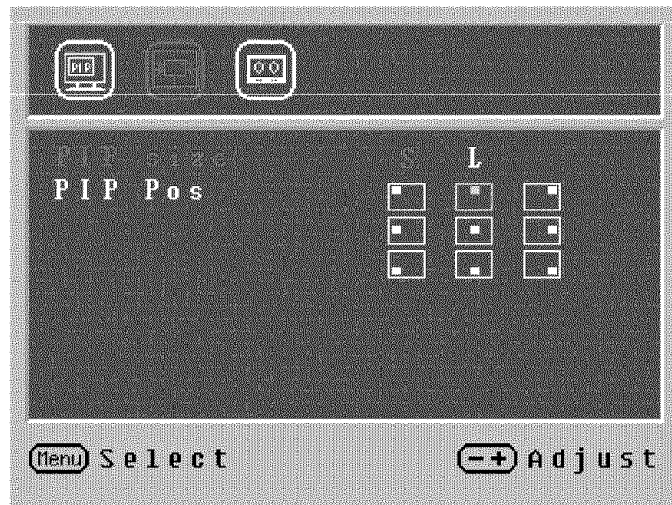
Function Name	Explanation
MOVIE RATING	<p>G: General audience</p> <p>PG: Parental Guidance suggested</p> <p>PG 13: Parents strongly cautioned</p> <p>R: Restricted</p> <p>NC 17: No one 17 and under admitted</p> <p>X: Adult audience only</p>
TV RATING	<p><<< AGE >>></p> <p>Y: All Children</p> <p>Y7: Directed to Older Children</p> <p>G: General Audience</p> <p>PG: Parental Guidance Suggested</p> <p>14: Parents Strongly Cautioned</p> <p>MA: Mature Audience Only</p>

PIP function Menu

PIP is available in Analog mode only. When depressing the PIP button on the remote control the following menu appears. Pressing the PIP button again will toggle the PIP function on/off. Use either the Menu key or the _/_ arrow keys to navigate within the menus. The BACK key on the remote control or Exit button on the control key will allow you to back out of the OSD menus.



Using the Right Arrow Key moves to the following OSD Menu. Select the PIP size between S – Small and L – Large (default). The default position for PIP Pos is set to the lower right corner of the LCD TV display.



Using the Right Arrow Key move to the following OSD Menu. Select the Audio source. Choose between Analog source Line in or PIP audio source. Which could be the TV, AV1, S-Video or YPbPr audio source.



Main PC OSD Menu in Analog Mode

To display the OSD menu, press the Menu button on the control keys or the MENU key on the remote control. Use either the Menu key or the _/_ arrow keys to navigate within the menus. The _/_ arrow keys are used to change the values of the functions that are selected in the OSD menu. The BACK key on the remote control or Exit button on the control keys allows you to exit out of the OSD menus and functions.



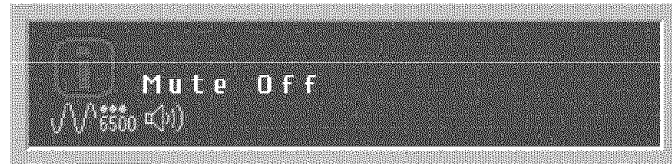
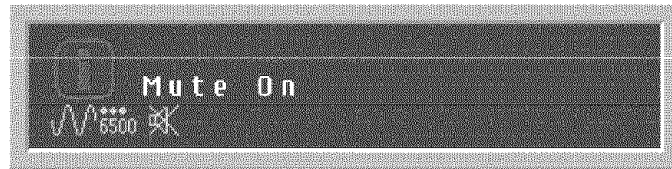
Function Name	Explanation
Brightness	Brightness adjustment. Default value is 100.
Contrast	Contrast adjustment. Default value is 50.
Clock	Adjust the Clock timing. Default value is 50.
Phase	Adjust the Video Hue level. Default value is 55.
H-POSITION	Adjust OSD on horizontal position. Default value is 50.
V-POSITION	Adjust OSD on vertical position. Default value is 50.
Sharpness	Adjust picture sharpness from 1 – 5. Default value is 2.

PC OSD Menus

Please refer to the TV Navigational Menus which are similar to the following PC menus.



When pressing the MUTE button on the remote control, the following messages will appear on the screen.



Selecting this Menu provides the ability to choose preset display levels and customize user RGB levels.



PC OSD Menu Language Selection Menus

Choose from 9 different languages.



OSD Time-out, Default positioning. Auto Setting Off/On and Recall feature. Similar to TV mode functions.

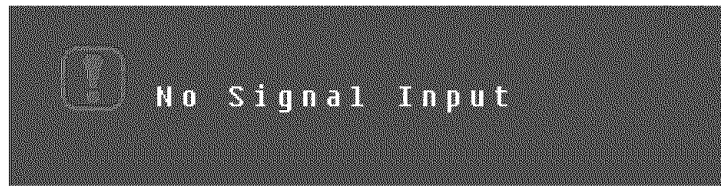


OSD Selection of the Input Source between Analog, AV1, S-Video, YPbPr and TV.

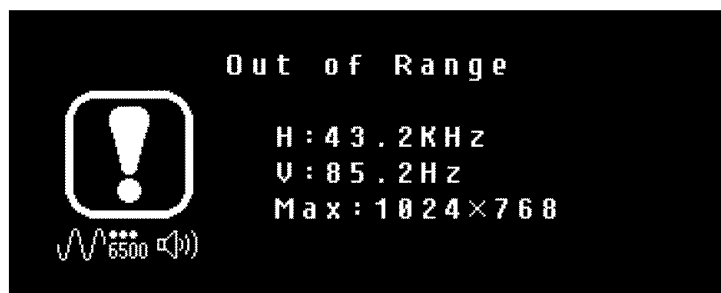


Input Source not found or Out of Range

If there is no source connected to the Input selected. TV, AV1, AV2(S-Video), AV-3 (YPbPr – Component) or Analog. The following will be displayed:



If in Analog mode and the Display settings are not compatible with or are out of range of the LCD TV/Monitor the following will be displayed:



Appendix

Specifications

Preliminary Product Specification	
Panel Size/Type	17" Color TFT LCD. Anti-static and hard coated.
Native/Optimum Resolution	1280x1024
Aspect Ratio	5:4
Response Time	14ms
Contrast Ratio	350:1
Maximum Brightness	350 cd/m ₂
Viewing Angle	Horizontal: 160° Vertical: 120°
Display Colors	16.2 million colors
Active Display Area	337.9 mm(H) x 270.34 mm(V); 17-inch diagonal
PC Compatibility	VGA, SVGA, XGA, SXGA 1280 x 1024, 60Hz (preferred timing)
Video Compatibility (Video, S-Video)	NTSC
Tuner Compatibility	NTSC, CATV
Video Features	Progressive scan Motion adaptive 3D de-interlacing Inverse 3:2 pull down Picture-in-Picture in VGA mode only
Audio Features	Built in audio amplifier and speakers; 2.5 watts x 2 channels Mute Multi-channel television sound MTS
Other Features	Closed caption V-Chip Sleep timer
Input Connectors	Input 1: 1 Tuner antenna input Rear: Input 2: 1 Video, 1 S-Video, 1Y/Pb/Pr, left and right stereo audio Input 3: VGA, stereo audio
Output Connectors	Rear: 1x 1/8" Stereo Mini-jack for Headphones
Remote Control Unit	Infrared remote control
Accessory/Cables	Infrared remote control Power cord
Base Stand	5° down, 20° up tilting stand
Wall/Arm Mount	Directly wall mountable or VESA 75mm hole pattern
Dimensions (w x h x d)	Unit with base : 487 x 315 x 174.3mm Unit without base : 487 x 315 x 59mm Carton : 540 x 470 x 140mm
Weight	Unit Weight : 4 Kg Gross shipping weight : 6.1 Kg
AC Power Input Range	100~240V _{AC} , 50/60Hz, 1.6 amps, universal
Regulatory Approvals	FCC-B, UL, CSA (CUL), Energy Star®
Lamp Life Time	40,000 hours
Environmental Conditions	Operating Temperature : 5°C to 35°C Storage Temperature : -20°C to 55°C Operating Humidity : 20 to 80% (no condensation) Storage Humidity : 20 to 85% (no condensation) Storage Humidity : 3,000 m Operating Altitude : 12,000 m Storage Altitude

Troubleshooting

No power

- Make sure DC cord is plugged into the back of the LCD TV.
- Make sure 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

Power is ON but no screen image

- Adjust brightness and contrast
- Check Source settings

Wrong or abnormal colors

- If any colors (red, green, or blue) are missing, check the video cable to make sure it is securely connected. Loose or broken pins in the cable connector could cause an improper connection
- The red connector for right audio is easily confused with the red Pr connector in YPbPr component video input. Double check that they are correctly attached.
- Remove distribution amplifiers from the signal path

Snow appears on screen

- Check your antenna connection
- Remove unnecessary signal splitters to improve signal quality
- Replace poor or worn cables to properly match 75 ohm impedance
- Check TV / CATV selection

No sound

- Check your audio connection
- Press MUTE on the remote control again, so that MUTE disappears from the screen
- Check your audio settings, your TV audio may be set to SAP or Dual
- Press the Volume + (Up) key on your remote control
- Make sure that headphones are not connected

Remote control does not work

- Make sure batteries are inserted correctly
- Replace old or worn batteries

Remote control code not found in “universal” remote

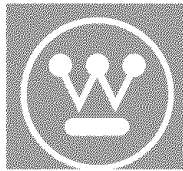
- Purchase a separate “learning” remote control

How do I mount the LCD TV on a wall

- Use the 75mm VESA hole pattern to secure mounting plate to the LCD TV
- Use professional installation to reduce risk of injury and damage

How do I find more help?

- www.westinghousedigital.com
- Contact customer service at (866) 287-5555 or service@westinghousedigital.com



Westinghouse Digital Electronics
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