



19 inch

22 inch

24 inch

LED Manual



Digital Television Transition Notice:

This device contains a digital television tuner, so it should receive digital over the air TV programming, with a suitable antenna, after the end of full-power analog TV broadcasting in the United States on February 17, 2009. Some older television receivers, if they rely on a TV antenna, will need a TV Converter to receive over the air digital programming, but should continue to work as before for other purposes (e.g., for watching low-power TV stations still broadcasting in analog, watching pre-recorded movies, or playing video games). When a Converter is used with an older television receiver, a signal splitter might be necessary to continue to receive low-power analog broadcasts via an antenna. For more information, please see www.DTV.gov. For information on the TV Converter program, and on government coupons that may be used toward the purchase of one, see www.dtv2009.gov, or call the NTIA at 1-888-DTV-2009.

NOTE

■ THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR "TV INTRERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

NOTE

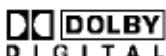
■ This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the 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.



This product contains electrical or electronic materials. The presence of these materials may, if not disposed of properly, have potential adverse effects on the environment and human health. Presence of this label on the product means it should not be disposed of as unsorted waste and must be collected separately. As a consumer, you are responsible for ensuring that this product is disposed of properly. To find out how to properly dispose of this product, please go to www.elementelectronics.com and click on Sustainability.



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This TV incorporates High-Definition Multimedia Interface (HDMI™) technology. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Federal Communications Commission Statement

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1. Reorient/Relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit which is different from what the receiver is connected to.
4. Consult the dealer or an experienced radio/TV technician for help.

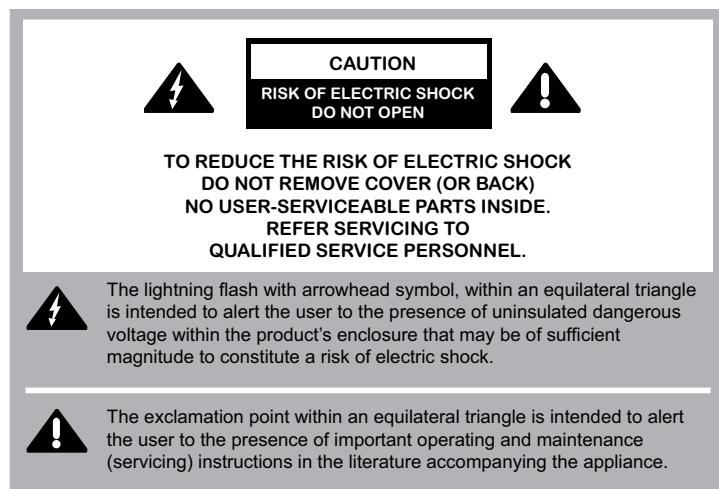


Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user authority to operate the equipment.

Warnings and Precautions

To prevent any injuries, the following safety precautions should be observed in the installation, use, servicing and maintenance of this equipment.

Before operating this equipment, please read this manual completely, and keep it nearby for future reference.



Important Safety Instructions	
	This symbol indicates caution points.
	This symbol indicates actions that should not be done.
	This symbol indicates actions that must be performed.
	<ul style="list-style-type: none">Do not display a still image (such as those that occur when playing video games or when a PC is connected to the TV) on this plasma TV for more than 30 minutes as that can cause screen image retention. This image retention is also known as screen "burn-in".
	<ul style="list-style-type: none">Do not place the equipment on uneven or unstable carts, stands, tables, shelves etc. The equipment may fall, causing serious injury to children or adults and serious damage to the equipment itself. Always place the equipment on the floor or on a surface that is sturdy, level, stable and strong enough to support the weight of the equipment.
	<ul style="list-style-type: none">Use only a cart or stand recommended by the manufacturer. This equipment and recommended cart or stand should be handled with care. Quick stops, excessive force, and uneven surfaces may cause the equipment and cart/stand to overturn.
	<ul style="list-style-type: none">Do not disable the 3-wire grounding type plug. The grounding pin on the 3-prong plug is an important feature. Removing the grounding pin will increase the risk of damaging the equipment.



- If you can not fit the plug into the electrical outlet, contact an electrician to install a grounding outlet.
- Always operate this equipment from the type of power source indicated on the rear of the serial/model plate.
- Never overload wall outlets and extensions.
- Use and handle the power cord with care. Do not place any heavy objects on the AC power cord.
- Do not pull the AC power cord. Do not handle the AC power cord with a wet hand.
- Do not touch the power cord and antenna cable during lightning.
- Remove the plug from the wall outlet, if the equipment will not be used for a long period of time.
- Do not place, use or handle this equipment near water.
- Never expose the equipment to liquid, rain, or moisture. Seek service if any of the above is spilled into the equipment.
- Do not expose the equipment to extreme temperature or to direct sunlight, as the equipment may heat up and suffer damage.
- Do not install the equipment near any heat sources such as radiators, heat registers, stoves, or any other apparatus that might produce heat.
- Do not attempt to service the equipment yourself.
- Opening and removing the covers may expose you to dangerous voltage or other hazards and may void your warranty. Refer service to qualified personnel.
- Do not place or drop any other objects on top.
- Do not insert anything into the ventilation holes of your equipment. Inserting any metal or flammable objects may result to fire or electric shock.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Do not block any ventilating openings. Leave an open space around the equipment. Never place the equipment : on a bed, sofa, rug, or any other similar surfaces; too close to drapes/curtains/walls, in a bookcase, built-in cabinet, or any other similar places that may cause poor ventilation.
- Unplug this apparatus during lightning storms or when unused for long periods of time.



- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Always remove the power cord from the outlet before cleaning the equipment.



- Never use liquid or aerosol cleaners on the equipment. Clean only with a soft dry cloth.
- Only use attachments/accessories specified by the manufacturer.
- Where the mains plug or an appliance coupler is used as the disconnected device, the disconnect device shall remain readily operable.



LISTENING WITH EARPHONES

- Listen at moderate Volumes to avoid hearing damage.
- If you hear no sound during playback, do not turn the Volume up as the music may suddenly begin at a high Volume. Excessive sound pressure from earphones and headphones can cause hearing loss.
- To avoid damaging your ears, adjust the Volume to the lowest level before playback, and turn up to the desired level when playback has started.

Antenna Safety Instructions

If an outdoor antenna is connected, follow the precautions below:



- An outdoor antenna should not be located in any area where it could come in contact with overhead power lines, or any other electric light or power circuits.
- When installing an outdoor antenna system, extreme caution should be taken to prevent contact with power lines. Direct contact with power lines may be fatal and should be avoided at all costs.

Section 810 of National Electrical Code (NEC) provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

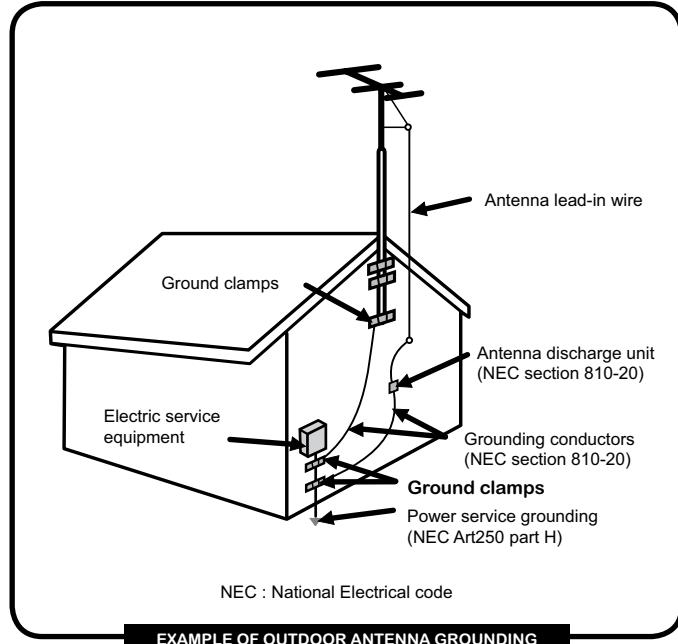


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Chapter 1

Introducing the TV

Key Features

Multiple Audio/Video Inputs and Outputs for Easy, User-Friendly Connections

- 1 composite VIDEO input terminal
- 1 component Video and L/R audio input terminal
- 1 VGA and VGA Audio input terminal
- 1 HDMI input terminal (with built-in Audio)
- 1 COAXIAL output terminal
- 1 Earphone terminal

Built-in TV tuner to receive HD ATSC

- This function allows the reception of HD broadcasting without the addition of a set top box.

High Definition Multimedia Interface (HDMI)

- High Definition Multimedia Interface (HDMI) is a small, user-friendly interconnect that can carry up to 5 Gbps of combined video and audio in a single cable. This system eliminates the cost, complexity and confusion of multiple cables used to connect current A/V systems.

HDTV Component Video Inputs

- Offers the best video quality for DVD(HD1080p,1080i, 720p) and digital set-top-box (HD1080p,1080i, 720p) connections (19" TV offers 1080i and 720p outputs).

3D Digital Noise Reduction

- This function can digitally reduce image noise to provide better picture quality.

Film-Mode Detection (3:2 Reverse Pull Down)

- This function can automatically detect content derived from film and adjust the interlacer's frame matching to provide a more natural-looking, clearer image of the moving picture.

Package Contents

Make sure all of the following contents are included.

TV



Remote Control/
AAA Batteries x 2



AC-DC Adapter



Power Cord



The Power cord type may be
different depending on your
country's power type.

User's Manual

Quick Start Guide

Warranty Card



The photos of the accessories are for reference only, the color of the
remote control, the type of power cord are variable based on the actual
models.



These items are all you need to set up and operate the TV in its basic
configuration. If you are missing any items, please return this product to the
original place of purchase.

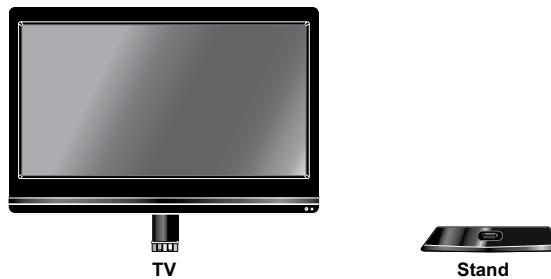
Setting Up Your TV

How to install the TV Stand

Follow the instructions below to install the TV stand:

1

Open the box, and make sure all necessary parts are in the box. The package contains:



2

Cover an even and stable surface with a soft cloth. Place the TV unit face-down on the cloth. Fit the stand onto the bottom of the TV unit as shown, then use a screw driver to tighten the screw on the bottom of the stand until the screw is firmly fixed in place.



3

This unit is designed to allow you to have a comfortable viewing angle, which can be adjusted by slightly rotating the TV to the front or rear.



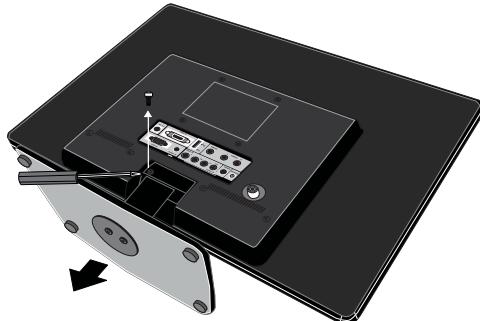
Do not force the TV over its maximum viewing angle settings as stated above. Attempting this will result in damage to the TV and stand.

How to remove the TV Stand

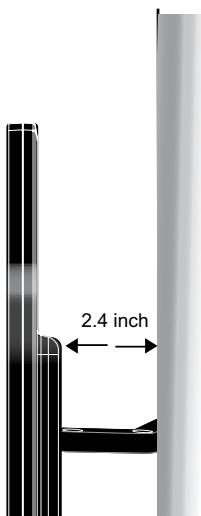
If you prefer to mount your new TV on a wall instead of attaching it to the stand, please reference the instructions included in the wall mounting kit (sold separately).

1

To prevent damaging the surface of the TV, place the TV on a soft cloth. Remove the screw of the table stand and detach the table stand from the TV.

**2**

Affix the VESA standard mount to the back of the TV using the four screws provided in the wall-mount kit. When installing the TV on the wall, allow some space between the TV and the wall.

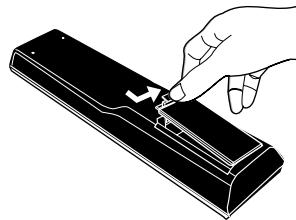


When installing the TV on the wall, allow some space between the TV and the wall (at least 2.4 inches). Verify your TV's model and be sure to use the wall mounting kit specified for your TV model only. Contact a technician for assistance when installing the wall mounting kit.

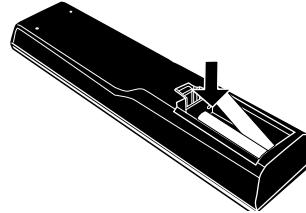
How to setup the TV

- 1** Use a supplied antenna cable to connect the VHF/UHF signal to the TV's ANT. terminal (refer to page15-19).
- 2** Connect the AC power cord to the back of the TV and connect the power cord to the wall outlet.
- 3** Insert the 2 batteries supplied in remote control.

Step1 Slide the back cover up to open the battery compartment of the remote control.



Step2 Insert two AAA size batteries. Make sure to match the (+) and (-) ends of the batteries with the (+) and (-) ends indicated in the battery compartment. Slide the cover back into place.

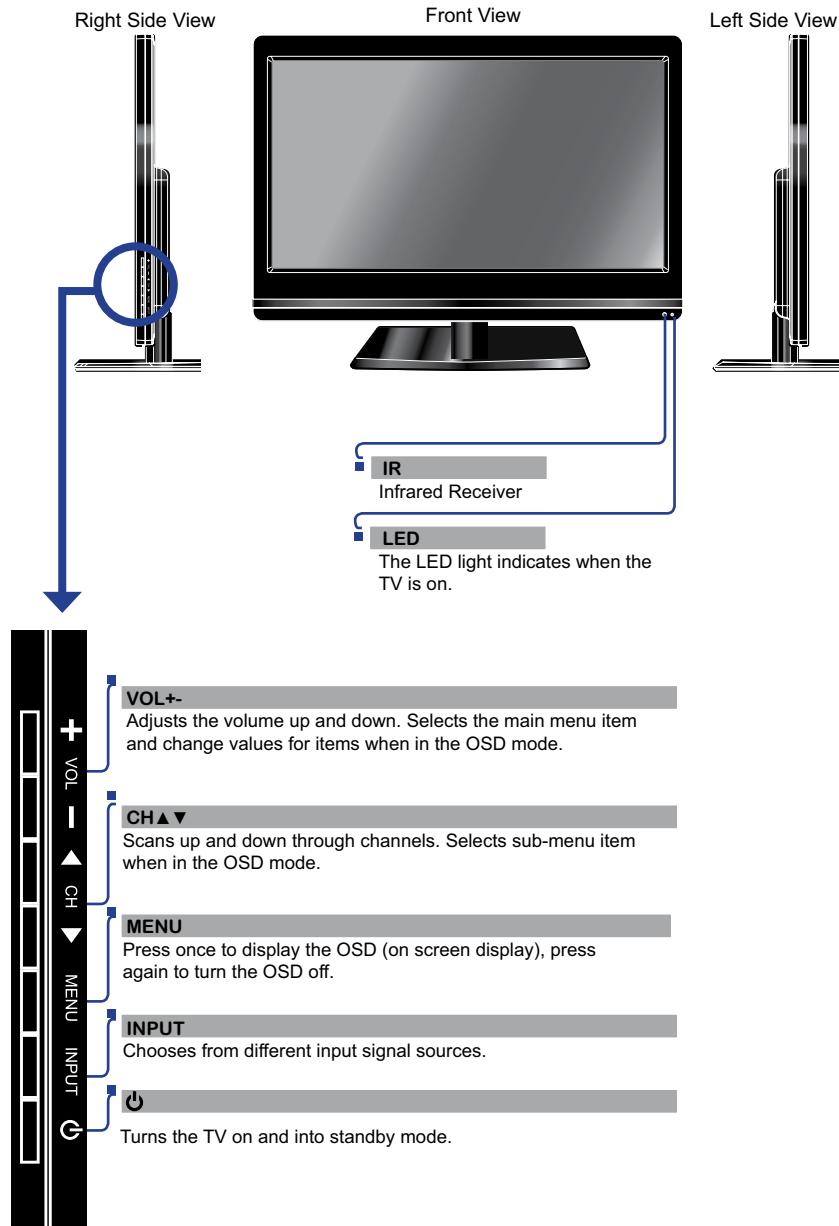


Do not use caustic cleaners (porcelain, stainless steel, toilet, or oven cleaner etc.) on the remote, as it may cause damage.

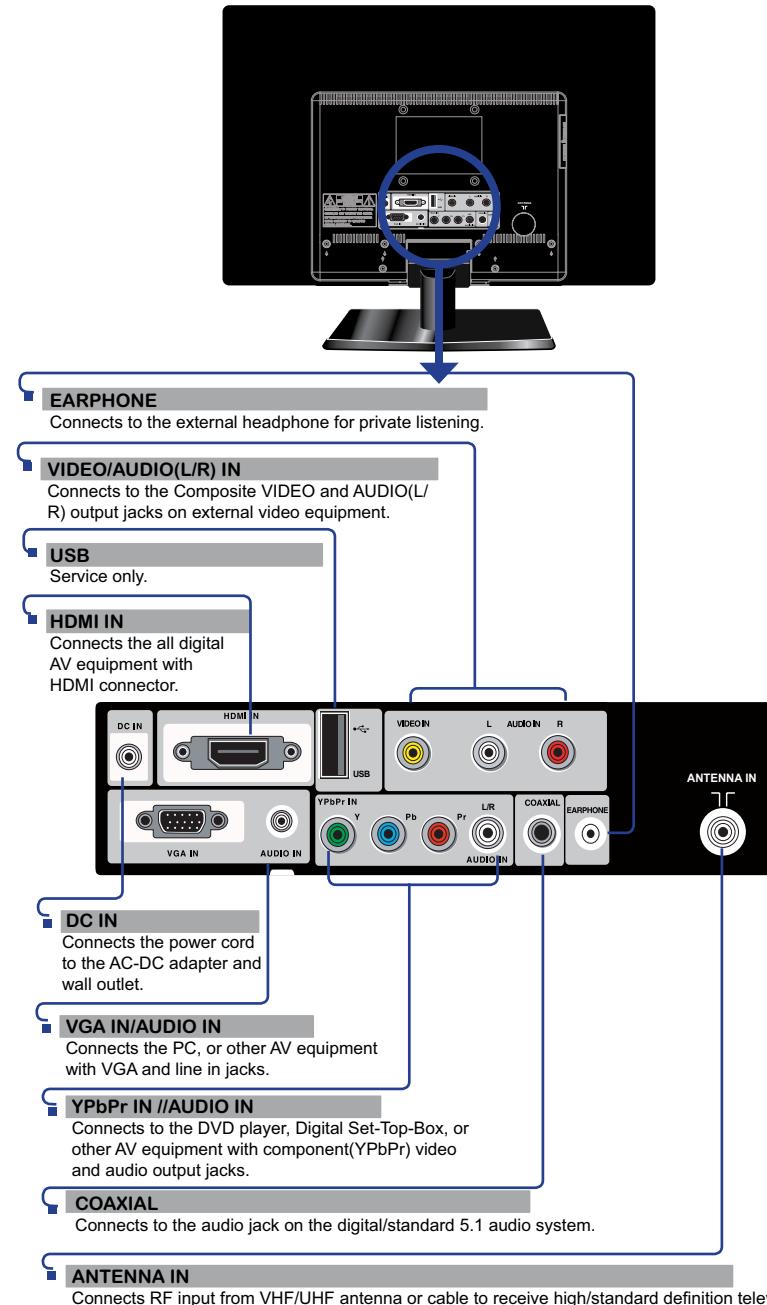
- 4** Connect other external AV devices (refer to page 20-25).

Your TV

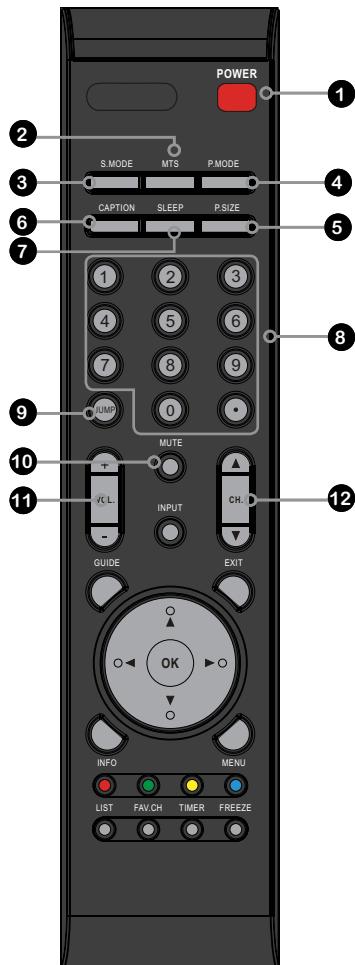
Front/Left /Right Side View and Controls



Rear View and Jacks



Your Remote Control



1 Turns the TV on and off.

2 **MTS** Cycles through the multi-channels TV sound (MTS) options: SAP/MONO/STEREO

3 **S.MODE** Selects sound effect options: Surround/Live/Dance/Techno/Classic/Soft/Rock/Pop/Off.

4 **P.MODE** Selects picture mode: Vivid/Hi-Bright/Cinema/Sport/User

5 **P.SIZE** Cycles through Wide mode settings : NORMAL /FULL/WIDE/ZOOM

6 **CAPTION** Cycles through the Closed Caption:
▪ Analog Closed Caption:CC1/CC2/CC3/CC4/Off
▪ Digital Closed Caption:Service1/Service2/Service3/Service4/Service5/Service6/Off

7 **SLEEP** Cycles through the TV sleep timer: OFF/10/20/30/40/50/60/90/120 mins

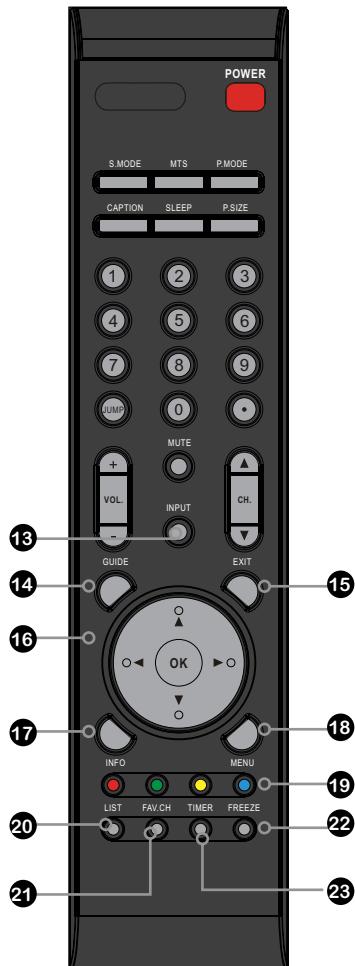
8 **0-9** Select and switch to a channel by using 0-9 buttons.
• In HDTV mode, use with 0-9 and • buttons to select a digital channels.

9 **JUMP** Returns to previously selected channel.

10 **MUTE** Mutes and restores the audio

11 **VOL.+-** Increases and decreases volume.

12 **CH.+-** Scans up and down the channels



13 INPUT

Pressing INPUT will display the source list, use **▲▼** to select the video equipment connected to the video inputs of your TV and press **OK** to confirm:

Source Select
TV
CVBS
YUV
HDMI
PC

14 GUIDE

Displays the Program Guide on the screen. Press again to turn GUIDE off.

15 EXIT

Exits the OSD menu.

16 ▲▼▶◀ OK

Cycles through OSD options and selects individual menu items. OK confirms option settings.

17 INFO

Pressing repeatedly displays a variety of information such as the current channel and the input source.

18 MENU

Displays the OSD menu on the screen.

19 ●●●●

In EPG mode, used in EPG function setup.

20 LIST

Displays the received channel list

21 FAV.CH

Pressing **FAV.CH** display favorite channels.

22 TIMER

Displays the current time on the screen.

23 FREEZE

In **TV mode**, pressing **FREEZE** to freeze the current picture, press again to restore the picture.



Effective range:

The remote can control the TV from up to 197 inch away, if pointed directly at the receiver.

Chapter 2

Installing the TV

Refer to the owner's manual of any external equipment to be connected. When connecting any external equipment, do not connect any AC power cords to wall outlets until all other connections are completed.

Connecting a TV Cable or an Antenna

Antenna Connection

The antenna requirements for good color TV reception are more important than those for a black & white TV reception. For this reason, a good quality outdoor antenna is strongly recommended. The following is a brief explanation of the type of connection that is provided with the various antenna systems.

- A 75-ohm system is generally a round cable (not included) with F-type connector that can easily be attached to a terminal without tools.

F-type connector



75-ohm coaxial cable (round)

- A 300-ohm system is a flat twin-lead cable (not included) that can be attached to a 75-ohm terminal through a 300-75-ohm adapter (not included).

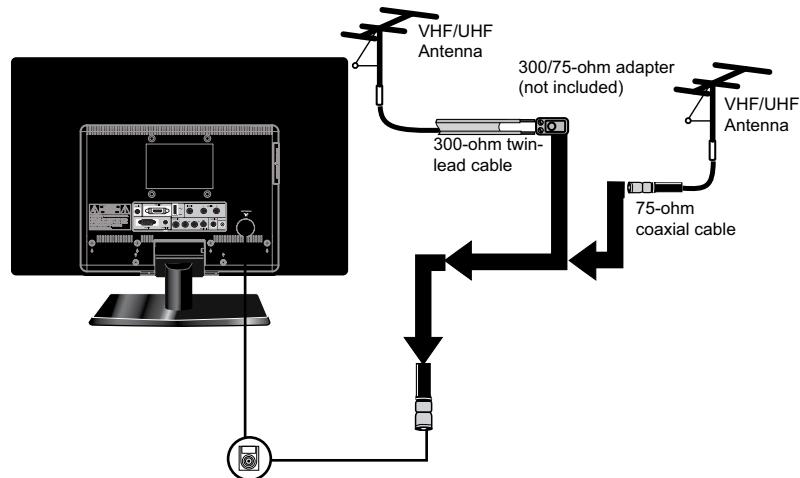


300-ohm twin-lead cable (flat)

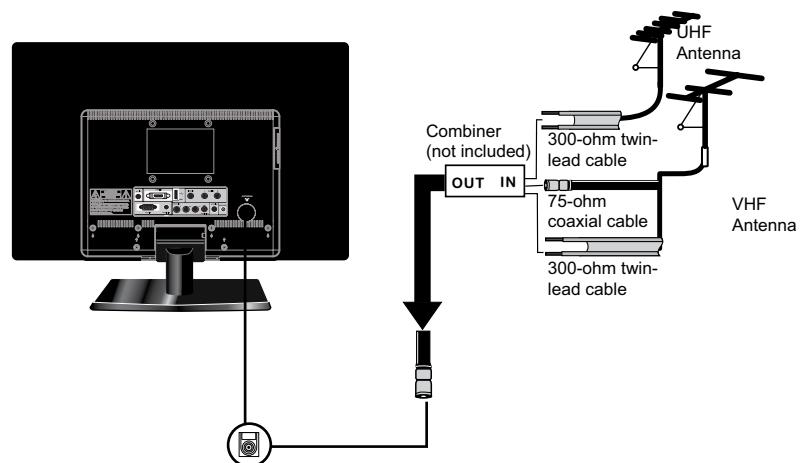
Use one of the following two diagrams when connecting an outdoor antenna.

A: Shows how to use a VHF/UHF combination outdoor antenna.
B: Shows how to use a separate VHF and/or UHF outdoor antenna.

A. Combination VHF/UHF antenna



B. Separate VHF and/or UHF antennas



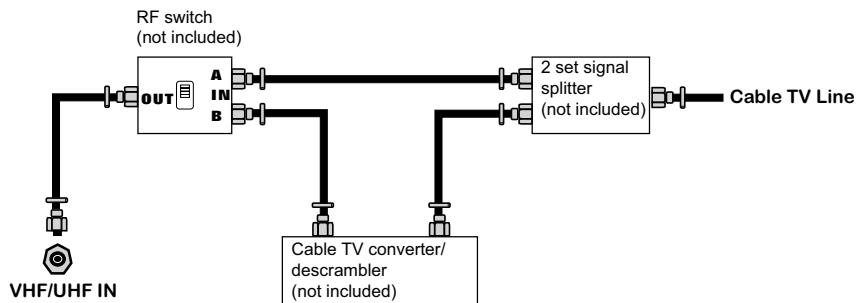
Cable TV (CATV) Connection

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electrical Code (NEC) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building accurately, or as close to the point of cable entry as possible. Use of this TV for other than private viewing of programs broadcasted on UHF, VHF or transmitted by cable companies for the use of the general public may require authorization from the broadcast/cable company, and/or program owner.

- A 75-ohm coaxial cable connector is built into the set for easy hookup. When connecting the 75-ohm coaxial cable to the set, connect the 75-ohm cable into the ANT. terminal.
- Some cable TV companies offer premium pay channels. Since the signals of these premium pay channels are scrambled, a cable TV converter/descrambler is generally provided to the subscriber by the cable TV company.

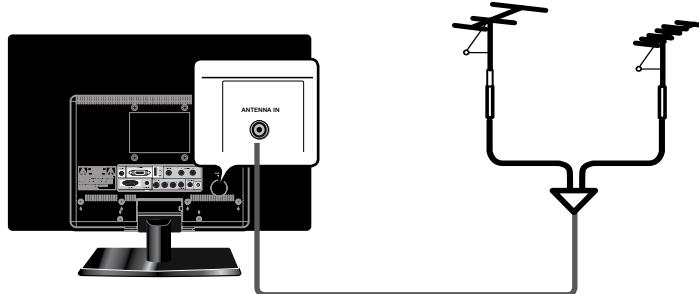
This converter/descrambler is necessary for normal viewing of scrambled channels. (Set your TV to channel 3 or 4, typically one of these channels is used. If this is unknown, consult your cable TV company.)

For more specific instructions on installing cable TV, consult your cable TV company. One possible method of connecting the converter/descrambler provided by your cable TV company is shown in the diagram below.

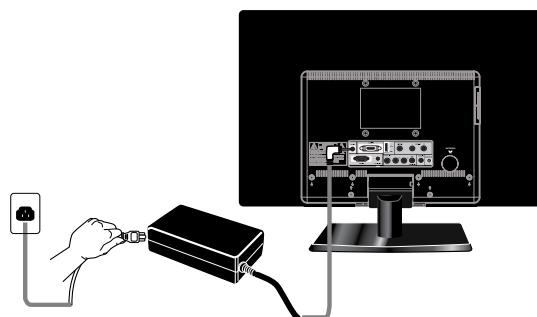


- The RF switch (not included) is required to provide two inputs (A and B). Setting the RF switch to position A allows viewing of all unscrambled channels by using the TV channel keys.
- Setting the RF switch to position B allows viewing of all scrambled channels via the converter/descrambler by using the converter channel keys.

- 1 Use a supplied antenna cable to connect the TV signal to the TV's TV CABLE terminal.



- 2 Connect the DC plug of the AC-DC adapter to the DC 12V port at the back of the TV.
- 3 Connect the AC-DC adapter and its power cord. Connect the power cord to wall outlet.



- 4 Press the **POWER** button on the remote to turn on the TV.

! Always disconnect the TV from the main voltage when the TV will not be used for a long period of time. The **POWER** button on the front panel is only used for switching the TV into standby, it does not disconnect the device from the main voltage. To completely disconnect the main voltage, please remove the power plug from the socket.

- 5 Press the **INPUT** button on the remote to display the Input List. Use the **▲▼** buttons to select **TV**, and press the **OK** button.

6

Press the **MENU** button on the remote control to display the Main OSD menu, press the **◀▶** buttons to select **CHANNEL** and press **OK** button to enter.

**7**

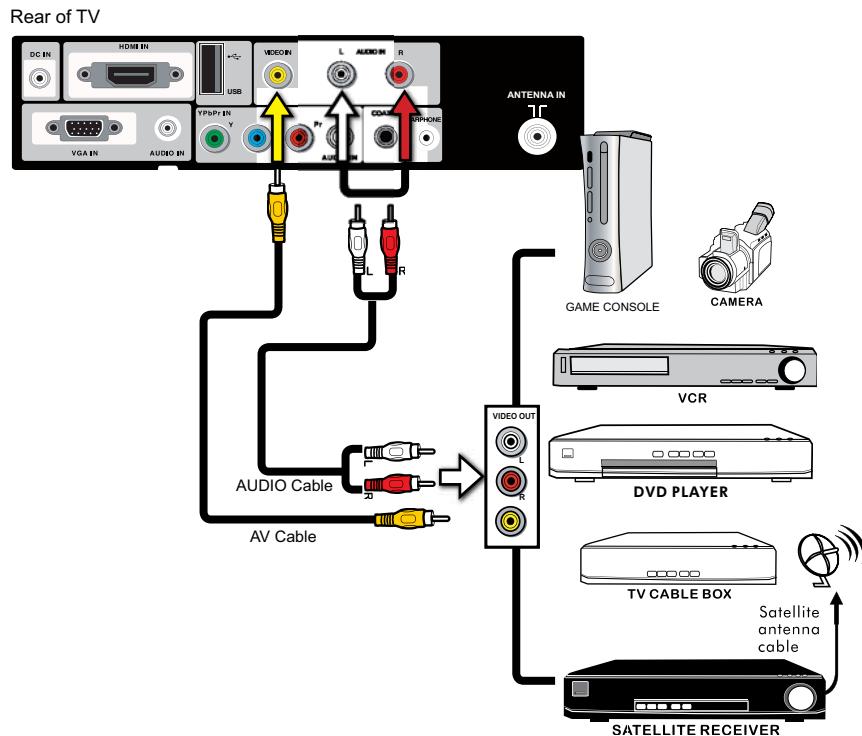
Press the **▼** button to select **Signal Type**, and **◀▶** buttons to select Air or Cable.

8

Press the **▼** button to select **Auto Channel Search**, and press the **OK** button. The Channel Scan automatically creates a list of receivable channels. Press the **MENU** button at any time to interrupt the memorization process.(the list cannot be created if interrupted)



Connecting an A/V Device with Composite Connector

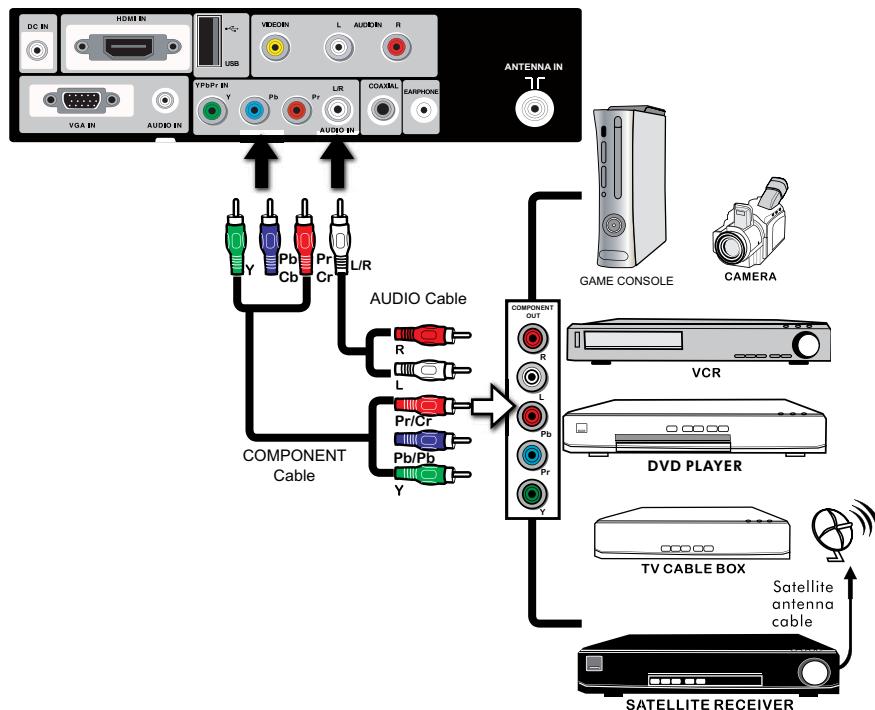


- 1 Use a composite cable to connect the external A/V device's composite audio/video jacks to the TV's VIDEO IN jacks.
- 2 Connect all AC power sources, before turning on the power switch of the TV or other connected equipment.
- 3 Press the **Power** button on the remote to turn on the TV.
- 4 To view the A/V device's with component input, press the **INPUT** button on the remote , then using **▲** or **▼** button to select **CVBS** and press **OK** button.

! Not all A/V devices have the ability to connect to a TV. Please check your A/V devices user guide for compatibility.

Connecting an A/V Device with Component(YPbPr) Connector

Rear of TV



Not all A/V device have the ability to connect to a TV. Please check your A/V device user guide for compatibility.

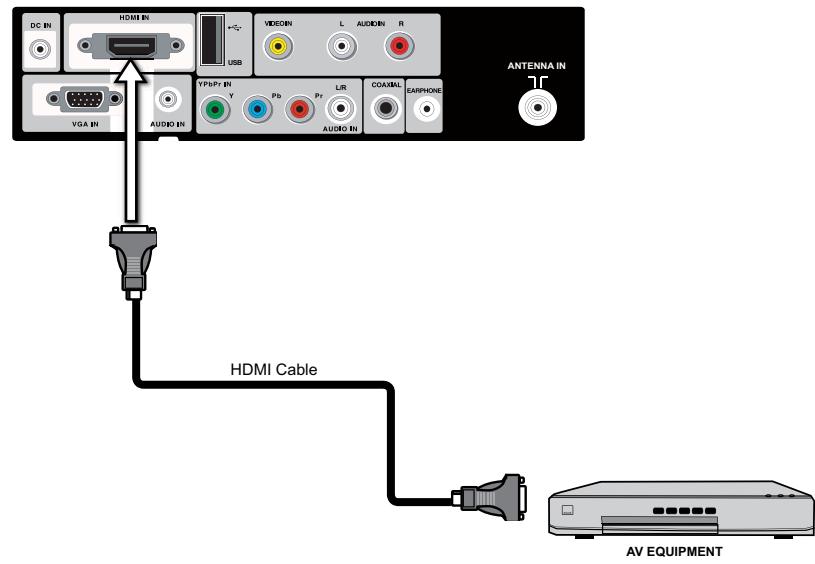
- 1 Use a component cable to connect the external A/V device's component output jacks to the TV's YPbPr IN input jacks.
Use an audio cable to connect the external A/V device's component audio jacks to the TV's audio input jacks.
- 2 Connect all AC power sources, before turning on the power switch of the TV or other connected equipment.
- 3 Press the **POWER** button on the remote to turn on the TV.
- 4 To view the A/V device's with component input, press the **INPUT** button on the remote, then using **▲** or **▼** button to select **YUV** and press **OK** button.



The component video jacks on your A/V device are sometimes labeled YPbPr, or YCbCr. For an explanation of component video, see your A/V device's user guide.

Connecting an AV Equipment with HDMI Connector

Rear of TV

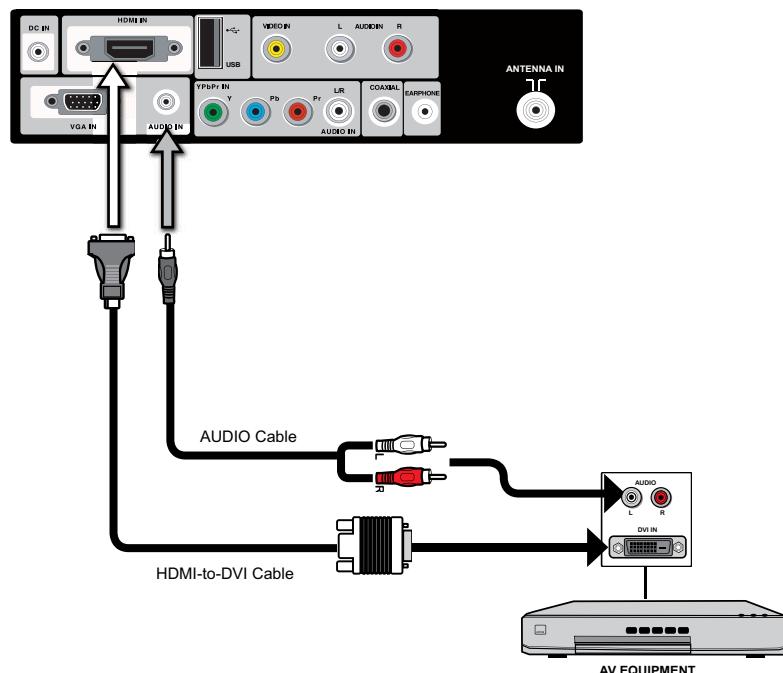


- 1 Use a HDMI cable to connect the AV equipment's HDMI output jack to the TV's HDMI IN jacks.
- 2 Connect all AC power sources, before turning on the power switch of the TV or other connected equipment.
- 3 Press the **Power** button on the remote to turn on the TV.
- 4 Press the **Input** button on the remote, then using **▲** or **▼** button to select **HDMI** and press **OK** button.

! The HDMI connector provides both video and audio signals, it's not necessary to connect the audio cable.

Connecting an AV Equipment with DVI Connector

Rear of TV

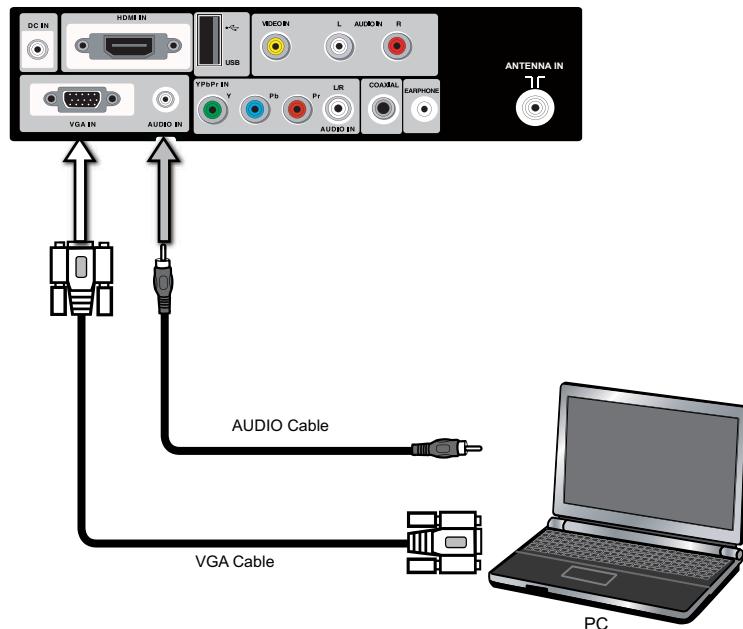


- 1 Use a HDMI-to-DVI cable to connect the AV equipment's DVI output jack to the TV's HDMI IN jacks.
Use an audio cable to connect the AV equipment's audio output jacks to TV's HDMI AUDIO jacks.
- 2 Connect all AC power sources, before turning on the power switch of the TV or other connected equipment.
- 3 Press the **Power** button on the remote to turn on the TV.
- 4 Press the **Input** button on the remote, then using **▲** or **▼** button to select **HDMI** and press **OK** button.

! If the TV is connected to AV equipment's DVI connector, you will need an HDMI-to-DVI cable or an HDMI adapter(not supplied) and an audio cable.

Connecting a PC

Rear of TV

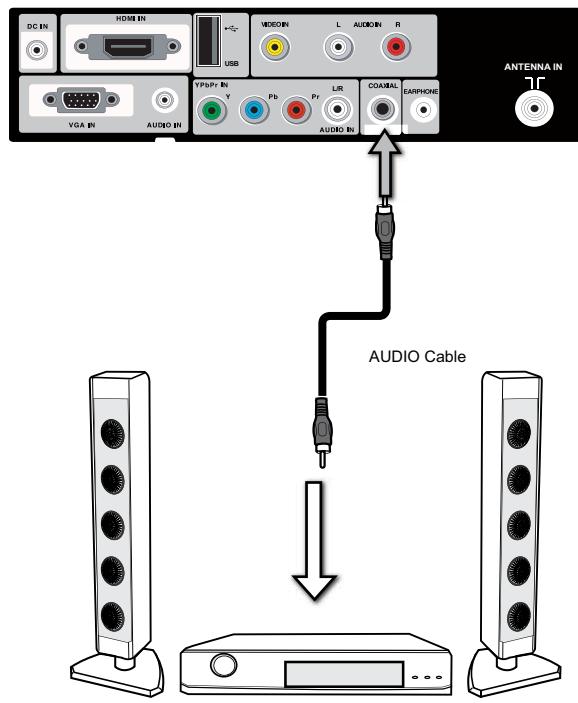


- 1 Use a VGA cable to connect the PC's VGA output jack to the TV's VGA input jack. Use an audio cable to connect the PC's audio output jacks to the TV.
- 2 Connect all AC power sources, before turning on the power switch of the TV or other connected equipment.
- 3 Press the **POWER** button on the remote to turn on the TV.
- 4 Press the **INPUT** button on the remote, then using **▲** or **▼** button to select **VGA** and press **OK** button.

Connecting an Audio Receiver or a Dolby Digital 5.1 Sound System

For better sound quality, you may want to play the TV audio through your stereo system.

Rear of TV



- 1 Use an audio cable to connect the audio receiver's audio LINE IN jacks to TV's COAXIAL OUT jacks.
- 2 Connect all AC power sources, before turning on the power switch of the TV or other connected equipment.
- 3 Press the **Power** button on the remote to turn on the TV.

Chapter 3

USING THE FEATURES

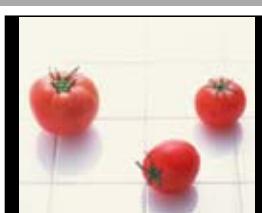
Wide Screen Viewing

Wide Screen function allows viewing of 4:3/16:9 images in wide screen mode, cycling through the following wide screen settings. Press the **P-Size** button repeatedly to select the screen format you want.

1

NORMAL

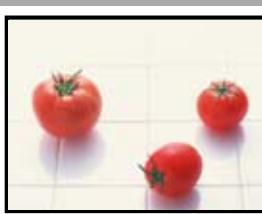
Displays at 4:3 aspect ratio



2

FULL

Stretches the image vertically and horizontally to keeps the image size consistent in the center of the screen and stretches the sides



3

WIDE

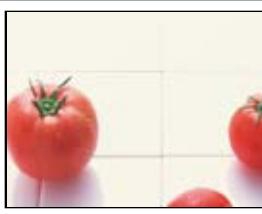
Stretches the image vertically and horizontally to fill the screen at 1:1.85 aspect ratio



4

ZOOM

Stretches the image vertically and horizontally to fill the screen at 1:2.35 aspect ratio



WIDE and ZOOM are not available when you are watching 720p, 1080i, 1080p, VGA, or DVI source.

Operating the Menu

- 1 Press the **Power** button to turn the TV on.
- 2 Press the **MENU** button on the remote control, the on-screen menu will appear on the screen. Use the **◀▶** buttons to select your main menu option.



PICTURE MENU:

Allows you to make adjustments to your picture settings.



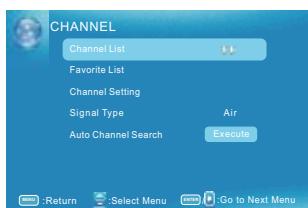
SOUND MENU:

Allows you to customize the audio options and effects.



CHANNEL MENU:

Allows you to edit and label channels.



PARENTAL MENU:

Allows you to parental control and activate the programs.



SETUP MENU:

Allows you to set up a variety of features: Closed Caption, Menu Language, Timer, HDMI Setting and Media Setting.



OTHERS MENU:

Allows you to adjust to others functions: Blue Back, No Signal Power Off, No Operation Power Off, Power Management, All Reset and Audio Only.



- 3 Use the **▲▼** buttons to highlight the option of the sub-menu, and press the **OK** button. While in adjustment mode, and use the **◀▶** buttons to change the value of the item.
- 4 Press the **EXIT** button to exit the menu.

Customizing the PICTURE Settings

- 1 Press the **Power** button to turn the TV on.
- 2 Press the **MENU** button on the remote control to display the Main menu, and use the **◀▶** buttons to select **PICTURE**.
- 3 Use the **▲▼** buttons to highlight an individual PICTURE option, use the **◀▶** buttons to change the setting, and press the **MENU** button to exit the menu.



! The available menu items are dependent on the input source being selected. All illustration is for reference only. If AV, PC, YPBPR, HDMI, TV source's menu items are not available, and they will be shown in gray.

- 4 The PICTURE menu includes the following options:

Picture settings Press the **OK** button to enter the Picture Setting menu.



Cycles among picture mode types: Dynamic/Standard/Mild/User
User: Allows to store your preferred settings. If you select the User mode, you can individually set the items shown:

- **Brightness:** Controls the overall brightness of the picture.
- **Contrast:** Controls the difference between the brightest and darkest regions of the picture.
- **Color:** Controls the color intensity.
- **Tint:** Controls the difference between the green and red regions of the picture.
- **Sharpness:** Increase this setting to see crisp edges in the picture; decrease it for soft edges.

Screen settings Press the OK button to enter the Screen Setting menu.



- **Screen size:**
Cycles among screen size types: Normal/Full/Wide/Zoom.
- **AutoWide:**
Press the OK button to automatically adjust the display settings to optimize performance based on the source mode.

PC Settings In PC mode, press the OK button to enter the PC Setting menu.

- **Auto Adjust:**
Press the **◀▶** button to select Execute, the function automatically adjust the display settings to optimize performance.
- **Horizontal Position:**
Adjusts the position of the picture left and right in the window.
- **Vertical Position:**
Adjusts the position of the picture up and down in the window.
- **Clock:**
Controls the width of the picture.
- **Phase:**
Controls the signal phase, which can improve focus clarity and image stability.
- **Reset:**
Press OK button to restore factory settings.

Color Temperature Adjusts color components independently to achieve a warm or cool effect: Cool/Normal/Warm

Advanced Picture Settings
Press the OK button to enter the Advanced Picture Setting menu.



- **Dynamic Contrast:**
Enables or disables the Dynamic Contrast function.
- **Film Mode:**
Enables or disables the Film Mode function.
- **Noise Reduction:**
Select to reduce the noise level of connected equipment: Auto/off/low/middle/high
- **MPEG Noise Reduction:**
Enables or disables the MPEG NR function.

Customizing the SOUND Settings

- 1 Press the **Power** button to turn the TV on.
- 2 Press the **MENU** button on the remote control to display the Main menu, and use the **◀▶** buttons to select **SOUND**.
- 3 Use the **▲▼** buttons to highlight an individual **SOUND** option, use the **◀▶** buttons to change the setting, and press the **MENU** button to exit the menu



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- 4 The **SOUND** menu includes the following options:

Sound Settings

Press the **OK** button to enter the Sound Setting menu.



Cycles among sound mode types: Dynamic/Standard/Soft/User
User: Allows to store your preferred settings. If you select the User mode, you can individually set the items shown:

- **Bass:**
Controls the relative intensity of lower-pitched sounds.
- **Treble:**
Controls the relative intensity of higher pitched sounds.
- **Balance:**
Adjusts the relative volume of the speakers in a multiple speaker system.

Surround Mode

Enables or disables surround sound effect.

Analog Sound

Allows you to listen to high-fidelity stereo sound while watching TV: SAP/Stereo/Mono

Digital Sound

Allows to select the audio language from the following options: English/French/Spanish

Others Settings

Press the OK button to enter the Others Setting menu.

▪ **AVL:**

Allows you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

▪ **Speaker:**

Allows to enable or disable the TV's speakers.

▪ **Digital Audio Output:**

Allows to selection of the digital sound format: PCM/OFF/Dolby Digital

▪ **PCM:** The external audio system is connected to the AUDIO OUT of the LCD TV

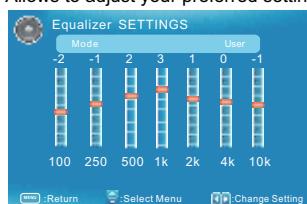
▪ **Dolby Digital (AC3):** Select for surround sound (for stereo programs only)

▪ **OFF:** Select OFF to turn off the external audio system

Equalizer Settings

Press the OK button to enter the Equalizer Setting menu.

Allows to adjust your preferred settings.



Customizing the CHANNEL Settings

- 1 Press the **Power** button to turn the TV on.
- 2 Press the **MENU** button on the remote control to display the Main menu, and use the **◀▶** buttons to select **CHANNEL**.
- 3 Use the **▲▼** buttons to highlight an individual **CHANNEL** option, use the **◀▶** buttons changes the setting, and press the **MENU** button to exit the menu.



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- 4 The **CHANNEL** menu includes the following options:

Channel List	Press the OK button to display the Channel List.
Favorite List	Press the OK button to display the Favorite List.
Channel Settings	Allows ADD/RENAME/MOVE/FAVORITE of channels on the channel list. Press the OK button to enter the Channel Settings menu.



▪ **Set up channel list:**

- 1 Press **◀▶** buttons on the remote control to select channel, then press **▲▼** buttons to add the selected channel in Channel List.
- 2 Press the **OK** button to set, a **■** icon will appear, press **OK** button again to disable.

▪ **Set up channel label:**

Press **▲▼** buttons to select channel, then press the **OK** button to enter the channel label menu.

▪ **Set up favorite channel:**

- 1 Press **◀▶** buttons on the remote control to select channel, then press **▲▼** buttons to add the selected channel in Favorite List.
- 2 Press the **OK** button to set, a **■** icon will appear, press **OK** button again to disable.

Signal Type Allows selection between CATV cable and antenna signal sources:
AIR/Cable

Auto Channel Search Press the OK button, the Channel Scanning automatically creates
a list of receivable channels.

ENGLISH

Customizing the PARENTAL Settings

- 1 Press the **Power** button to turn the TV on.
- 2 Press the **MENU** button on the remote control to display the Main menu, and use the **◀▶** buttons to select **PARENTAL**.
- 3 Use the **▲▼** buttons to highlight an individual **PARENTAL** option, use the **◀▶** buttons changes the setting, and press the **MENU** button to exit the menu.



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- 4 The **PARENTAL** menu includes the following options:

Lock Parental Control Use the Program Control function, must enter a four-digit password. The factory password is 0000.

V-CHIP Press the OK button to enter the V-Chip menu.



▪ **US V-Chip:**

- 1 Press **▲▼** button on the remote control to select US V-Chip, then press **OK** button to enter. The US V-Chip Rating has 2 rating methods: movie rating and TV rating.
- 2 Press **OK** button to enter the Movie rating menu. Press **▲▼** button to select the rating you want and press **OK** button repeatedly to select block() or unblock().

The Movie ratings includes the following options:

RATING	DESCRIPTION
--------	-------------

G	General Audiences. Movie is appropriate for all ages
---	--

PG	Parental Guidance Suggested. May contain material not suited for younger viewers
----	--

PG-13	Contains content that may not be appropriate for viewers under the age of 13
-------	--

R	Restricted. Contains adult content, no one under 17 admitted without parent
NC-17	No one 17 and under admitted
X	No one 17 and under admitted

Press MENU button to back.

③ Press **▼** button on the remote control to select TV rating, then press OK button to enter. Press **▲▼◀▶** button to select the rating you want and press OK button repeatedly to select block() or unblock().

The TV Rating has 2 rating methods: Content-Based Rating and Age-Based Rating. The TV Rating includes the following options:

AGE-BASED

RATING	DESCRIPTION
TV-Y	All children
TV-Y7	Directed to children age 7 and older
TV-G	General Audience
TV-PG	Parental Guidance suggested
TV-14	Parents strongly cautioned
TV-MA	Mature Audience only

CONTENT-BASED

RATING	DESCRIPTION
FV	Fantasy violence
D	Suggestive dialogue
L	Strong language
S	Sexual situations
V	Violence
A	All contents are blocked

Press MENU button to back.

▪ CANADA V-Chip:

① Press **▼** button on the remote control to select CANADA V-Chip, then press OK button to enter. The CANADA V-Chip Rating has 2 rating methods: English rating and French Rating.

② Press OK button to enter the English rating menu. Press **▲▼** button to select the rating you want and press OK button repeatedly to select block() or unblock().

The English ratings includes the following options:

RATING	DESCRIPTION
G	All children
C8+	Children 8 years and older
G	General programming
PG	Parental guidance
14+	Viewers 14 and older
18-	Adult programming

Press MENU button to back.

■ **Block Unrated Show:**

Block or Unblock all movies that are broadcast without any rating.

■ **Downloadable Rating:**

Selects to block program based on downloadable ratings are blocked from viewing.(this function is only available in U.S.A. where the Open V-Chip ratings exist).The Open V-Chip function is automatically downloaded while watching DTV channels. It may take several seconds. The rating name(for example: humor level, intelligence level..etc) and rating level(for example:DH, MH, H..etc) may differ depending on the information from broadcasting station. Press OK button to enter the rating menu. Press **▲▼** button to select the rating you want and press OK button repeatedly to select block () or unblock().

■ **Clear Downloadable Date:**

Press the OK button to clear all downloadable rating data.

Change Password Allows to set the password. Use the function, must enter a four-digit password. The factory password is 0000.

Front Panel Lock Selects to lock or unlock the front panels 's key function of the TV .

Source Lock Selects to block a Input source signal.

① Press **▲▼** buttons to select a input soure.

② Press OK button repeatedly to select block() or unblock().

Customizing the SETUP Settings

- 1 Press the **Power** button to turn the TV on.
- 2 Press the **MENU** button on the remote control to display the Main menu, and use the **◀▶** buttons to select **SETUP**.
- 3 Use the **▲▼** buttons to highlight an individual **SETUP** option, use the **◀▶** buttons to change the setting, and press the **MENU** button to exit the menu.



! The available menu items are dependent on the input source being selected. All illustration is for reference only. If AV, PC, YPBPR, HDMI, TV source's menu items are not available, and they will be shown in gray.

- 4 The **SETUP** menu includes the following options:

Closed Caption

Press the **OK** button to enter the Closed Caption menu.



▪ Analog Caption Type:

Press the **◀▶** buttons to select the basic analog closed caption options.

- CC1 /CC2 /CC3 /CC4:
Display a printed version of the dialog and sound effects of the program being viewed
- T1/T2:
Display station information presented using either half or the whole screen
- T3/T4:
Extended Data Services. For example: Network name, programname, program length, etc.

▪ Digital Caption Type:

Press the **◀▶** buttons to select the digital closed caption options:
Service1/Service2/Service3/Service4/Service5/Service6/OFF

- **Digital CC Preset:**
Press the **◀▶** buttons to select the digital closed caption options.
Custom: Allows to set your preferred settings. If you select the Custom mode, you can individually customize the settings for digital closed caption style option:
- **Digital CC Style:**
Press the **▲▼** buttons to select the digital closed caption options. Press the **◀▶** buttons to select the settings for digital closed caption option.

Menu Language Select to display all on-screen menus in your language of choice: English / French / Spanish

Clock Press the OK button to enter the Clock menu.



- **Time Zone:**
Allows selection of regional TV systems of USA: Newfoundland / Atlantic / Eastern / Central / Mountain / Pacific / Alaska / Hawaii / Samoa
- **Auto Clock:**
Selects to set the current clock in DTV mode.
 - ① Press **▲▼** buttons to select Setup Time.
 - ② Press the **◀▶** buttons to move each setting, and use 0-9 keys to set the current time.

Using the Others Settings

- 1 Press the  button to turn the TV on.
- 2 Press the **MENU** button on the remote control to display the Main menu, and use the **◀▶** buttons to select **OTHERS**.
- 3 Use the **▲▼** buttons to highlight an individual **Others** option, use the **◀▶** buttons to change the setting, and press the **MENU** button to exit the menu.



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- 4 The **SETUP** menu includes the following options:

Blue Back	Enables or disables the blue screen.
No Signal Power Off	Select on, the TV will be automatically turned off, in case of no signal in TV & input source.
No Operation Power Off	Select on, the TV will be automatically turned off, in case of no signal in TV & input source or no remote control input.
All Reset	Press OK button to restore factory settings.
Audio Only	Press ▲▼ button to select Audio Only, then press OK button to turn off the picture.

TROUBLESHOOTING



Before consulting service personnel, check the following chart for a possible cause of the trouble and for a possible solution.

TV will not turn on

- ① Make sure the power cord is plugged in, then press the **①** button on the remote.
- ② The batteries in the remote control may have lost their charge.
- ③ Replace the batteries.

No picture, no sound

- ① Check the interface cable between TV and antenna/cable TV.
- ② Press the **①** button on the remote.
- ③ Press the **INPUT** button on the remote, then press **▲▼** button to select the connected video sources and press **OK**.

Poor picture, sound OK

- ① Check the interface cable between TV and antenna/cable TV.
- ② Try another channel, the station may have broadcast difficulties.
- ③ Adjust the Brightness/Contrast options in the **VIDEO** Menu.

Picture OK, poor sound

- ① Sound may be muted. Press the **MUTE** button on the remote.
- ② Press the **VOL+** button to increase the volume.

Audio noise

- ① Move any infrared equipment away from the TV.

SPECIFICATIONS

MODEL		ELETT191	ELETT221
Panel	Panel Size	18.5" TFT	21.5" TFT
	Brightness	250	250
	Contrast Ratio	1000:1	1000:1
Max. Resolution		1366x768	1920 x 1080
Input Connector	C-VIDEO	1	1
	YPbPr	1	1
	AUDIO IN(L/R)	2	2
	USB	1	1
	VGA	1	1
	HDMI	1	1
	VGA LINE IN	1	1
	COAXIAL OUT	1	1
	EARPHONE	1	1
	ANTENNA IN	1	1
Speakers		3Wx2	3Wx2
AC power adapter		100~240V AC, 50/60HZ	100~240V AC, 50/60HZ
TV Input		12V DC, 4A	12V DC, 4A
Power Consumption		Max. 42 W, standby < 1 W	Max. 45 W, standby < 1 W
Dimension		18.2*5.6*13.7 inch	20.8*6.7*15.2 inch
Weight (Net)		6.7 lbs	8.3 lbs

Specifications

MODEL		ELETT241
Panel	Panel Size	23.6" TFT
	Brightness	250
	Contrast Ratio	1000:1
Max. Resolution		1920x1080
Input Connector	C-VIDEO	1
	YPbPr	1
	AUDIO IN(L/R)	2
	USB	1
	VGA	1
	HDMI	1
	VGA LINE IN	1
	COAXIAL OUT	1
	EARPHONE	1
	ANTENNA IN	1
Speakers		3Wx2
AC power adapter		100~240V AC, 50/60HZ
TV Input		12V DC, 5A
Power Consumption		Max. 52 W, standby < 1 W
Dimension		22.6*6.7*16.1 inch
Weight		11 lbs

Features and Specifications are subject to change without notice.

DISPLAY MODE

The screen resolution has been optimized during manufacture for the display modes listed below. If the signal from the system equals the standard signal mode, the screen is adjusted automatically. If the signal from the system does not equal the standard signal mode, adjusting the screen resolution by referring to your video card user guide otherwise there may be no video.

Video signal: (VGA Standard)

Resolution (Dot X Line)	Vertical Frequency(Hz)	Horizontal Frequency(kHz)
640 x 480	60	31.5
800 x 600	60	37.9
1024 x 768	60	48.4
1366 x 768	60	47.7