

USER MANUAL

Please read this manual carefully before using this TV set and keep it for future reference.

LED TV

LE5047

Need help fast?

Read your Quick Start Guide and User Manual first for quick tips and instructions on using your SUMMIT product.

IMPORTANT !!!

If you have read the instruction manuals and still need assistance, please call us at the toll free number below.

1-866-965-3436

24 hours a Day/ 7 Days a week.

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments / accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. 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.
15. **WARNING:** To Reduce The Risk Of Fire Or Electric Shock, Do Not Expose This Apparatus To Rain Or Moisture.
16. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
17. The mains plug is used as the disconnect and shall remain readily operable.
18. This TV is not designed for outdoors installation. Do not expose the TV to rain, as it may result in a fire or an electric shock. Also, do not expose the TV to direct sunlight, as it may heat up and become damaged.



CAUTION: RISK OF ELECTRIC SHOCK DO NOT OPEN.

AVIS: RISQUE DE CHOC ELECTRIQUE-NE PAS OUVRIR.



Safety:

TO REDUCE THE RISK OF ELECTRICAL SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS ARE INSIDE. REFER TO QUALIFIED SERVICE TECHNICIAN ONLY.



Dangerous Voltage: The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to the users.



Instruction: The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and servicing instructions in the literature accompanying the appliance.

Safety Instructions

Please read these instructions carefully.

This product complies with all applicable US federal safety requirements, as well as those of the Canadian Standards Association.

1. Cleaning

Always unplug the TV before cleaning. Do not use liquid or aerosol cleaners. Use a soft, slightly damp cloth to clean.

2. Water and Moisture

Do not use this TV near water. Avoid using this TV in an excessively damp environment.

3. Stand

This TV should always be placed on a solid, sturdy surface.

4. Ventilation

To prevent overheating, do not block or obstruct the vent openings on the TV's back panel. Also, avoid placing this TV in a confined area with poor air flow.

5. Power Sources

This TV should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your electronics retailer or local power company.

6. Power Cord Polarization

This TV is equipped with a three-wire grounding type plug, a plug with a third (grounding) pin. As a safety feature, this plug will only fit into a grounded power outlet. If you are unable to insert the plug into the outlet, contact your electrician to replace the obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

7. 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. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the TV.

8. Lightning

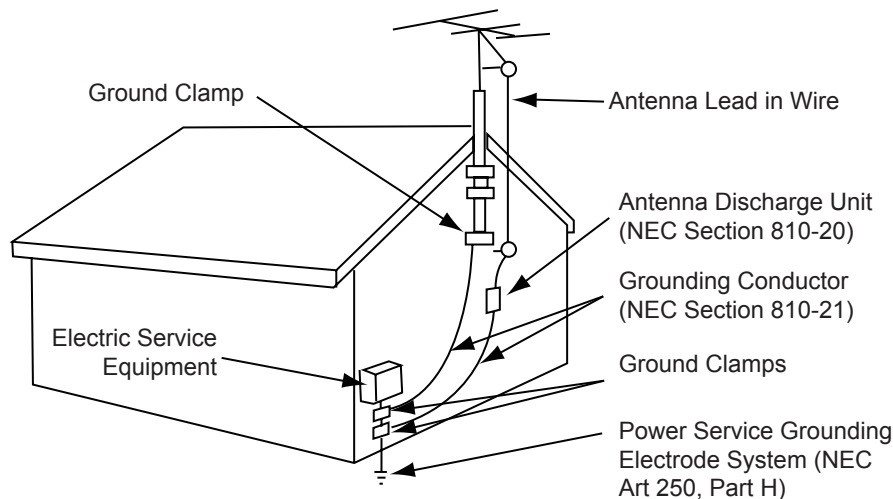
To protect the TV during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the TV from lightning and power-line surges.

Safety Instructions

9. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the TV 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 (U.S. A.), ANSI / 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, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Example of Grounding According to National Electrical Code Instructions



NEC - National Electrical Code

10. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall on to power lines or 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 might be fatal.

11. Overloading

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

12. Object and Liquid Entry

Never push objects of any kind into this TV through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on or inside the TV.

13. Servicing

Do not attempt to service this TV yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to a qualified service technician.

14. Damage Requiring Service

Unplug from the wall outlet and refer servicing to a qualified service technician under the following conditions:

- If the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the TV has been exposed to rain or water.
- If the TV does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- If the TV has been dropped or the cabinet has been damaged.
- If the TV exhibits a distinct change in performance.

Safety Instructions

15. Replacement Parts

When replacement parts are required, be sure that only an authorized service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards and void any warranty.

16. Safety Check

Upon completion of any service or repairs to this TV, ask the service technician to perform safety checks to determine whether the product is in proper operating condition.

17. Wall Mounting

The TV should be mounted to a wall only by a professional. The TV may slide or fall, causing serious injury to a child or adult, and serious damage to the product. Warranty shall be voided.

18. Heat

The TV should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

NOTE TO CABLE / TV INSTALLER:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electric Code (USA). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground should be connected to the grounding system of the building, as close to the point of the cable entry as practical.

FCC REGULATORY INFORMATION:

This television 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 television 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 television does cause interference to other electronic equipment, which can be determined by turning the television off and on, then 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 television.
- Connect the equipment into an outlet on a circuit different from that to which the television is connected.
- Consult your dealer or an experienced radio / TV technician for assistance.

Any changes or modifications not expressly approved by the party responsible for compliance may void the user's authority to operate the equipment.

WARNING

Never place a television set in an unstable location. A television set may fall, causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- Using cabinets or stands recommended by the manufacturer of the television set.
- Only using furniture that can safely support the television set.
- Ensuring the television set is not overhanging the edge of the supporting furniture.
- Not placing the television set on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television set to a suitable support.
- Not placing the television set on cloth or other materials that may be located between the television set and supporting furniture.
- Educating children about the dangers of climbing on furniture to reach the television set or its controls.

If your existing television set is being retained and relocated, the same considerations as above should be applied.


-  This equipment is a Class II or double insulated electrical appliance. It has been designed in such a way that it does not require a safety connection to electrical earth.

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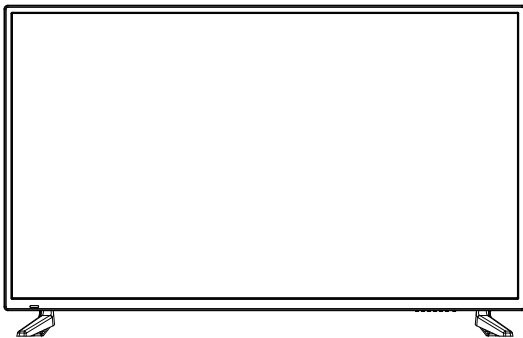
Introduction

What's In The Box

Thank you for purchasing the energy efficient LE5047 television. It has been designed to enjoy today's high definition television experience. With a display resolution of 50"3840X2160 you are assured of one of the finest quality televisions available today.

Your television provides both analog and digital inputs including one (1) High Definition Multimedia Interface (HDMI) interconnects for the purest audio and video digital signal when connected to compatible HD sources (ie: HD set-top box, high definition DVD player or gaming console).

We recommend that you read the user manual thoroughly before use to familiarize yourself with the installation and adjustment options available to you; thereby, enjoying all the features of the LE5047 for many years to come.



The LE5047 package includes the following items. Save the carton & packing for future shipping

- **Pedestal Base / Hardware**
- **Remote Control**
- **AAA Batteries (2)**
- **Quick Start Guide**
- **User Manual**
- **Warranty Card**
- **AV Cable**
- **Audio out Cable**



- Remote Control
- AAA Batteries x 2



- User manual
- Quick Start Guide



- Audio / Video Cable



- Pedestal Base



- Screws for Pedestal Base



- Audio out Cable

Wall Mount Information

This TV uses a 400x200 VESA mounting bracket attachment pattern. Please take this information with you when purchasing a wall mount for this TV.

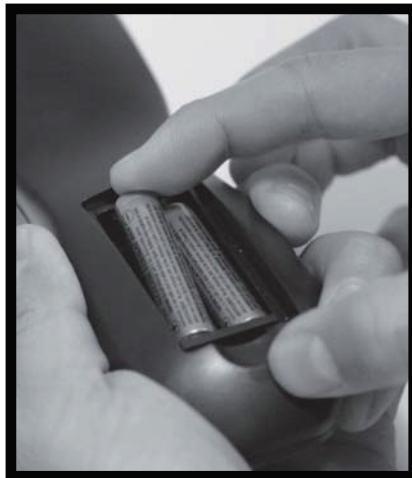
Remote Control

Battery Install

Your remote control handset is powered by two (2) AAA type batteries



- To insert the batteries, turn the remote control over and remove the battery cover.



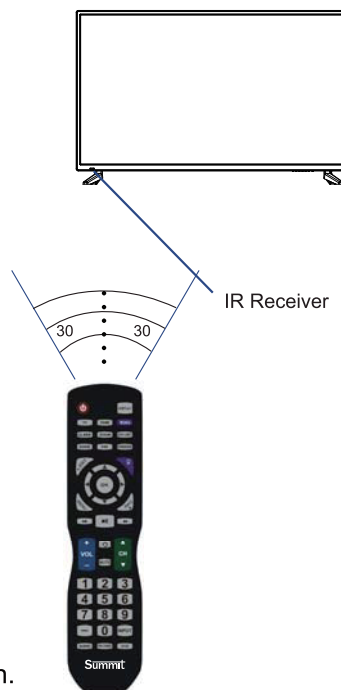
- Place two (2) "AAA" batteries into the battery compartment with the "+" and "-" ends facing the correct way as shown in the battery compartment.



- Replace the cover

- When pointed towards the television, the effective range of the remote is approximately 16 feet from the front of the TV IR receiver and at an angle of no greater than 30° to the left / right or 20° up / down.
- To avoid possible damage from battery chemical leakage, remove the batteries if you do not plan to use the remote control for an extended period of time. Do not mix batteries of different age and / or type. Always discard used batteries safely.
- Do not expose the remote control to liquids, direct sunlight or sources of excessive heat.
- The IR receiver on the TV will not work properly if the set is in direct sunlight or an object is in the path between the remote control and the IR receiver on the front of the TV.

NOTE: Improper use of batteries can result in a chemical leakage or explosion.



Universal Remote Code:

To program your Cable / Satellite remote to operate this TV, follow the programming instructions included with your providers' remote and use the following codes.

Comcast / Xfinity: 10030, 12731

DirecTV: 10030, 12731

AT&T (U-verse) : 1043

Optimum: 0040

Dish Network : 506

Spectrum / Time Warner: 761

RCA Universal : 0030

Cox: 2397, 2049, 10030, 12731

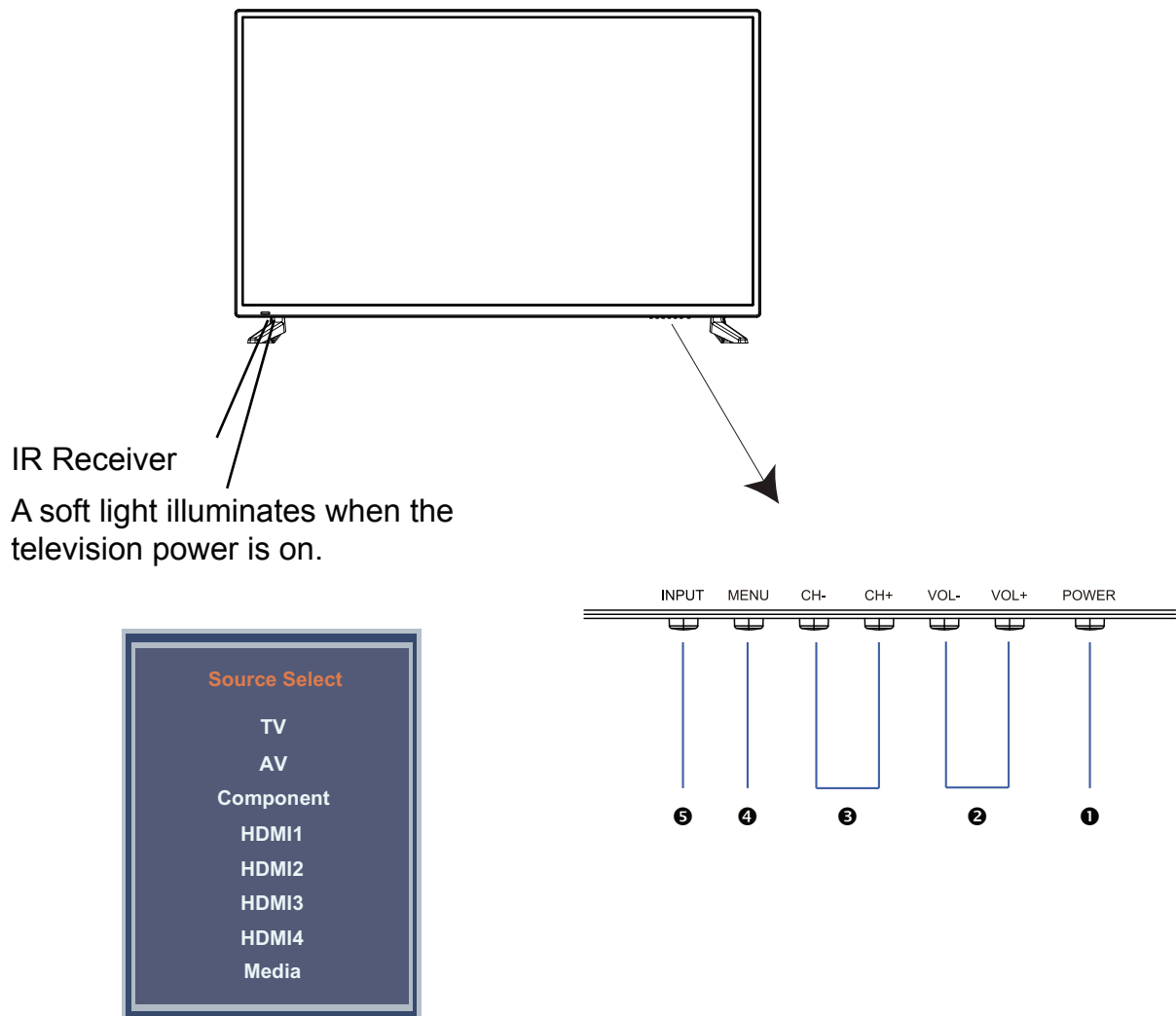


Notes:

1. If direct sunlight shine directly on the remote sensor, the remote control's operation may be unstable, and the effective range will be reduced.
2. Do not hit or violently shake the remote control.
3. Never expose the remote control to high temperature or humidity.
4. If the remote is not used for an extended period of time, remove the batteries to prevent damage or injury from possible battery leakage.

Remote Control Overview

1. **Power** – Turn the LED display ON or OFF (Standby).
2. **Display** – Provides program information currently viewed.
3. **TV** – Direct access to the television tuner.
4. **HDMI** – Direct access to the HDMI input.
5. **ROKU** – Direct access to the Roku input. NO included ROKU.
6. **Sleep** – Press to activate the Sleep function to turn off the TV automatically; 5 Min > 10 Min > 15 Min > 30 Min > 60 Min > 90 Min > 120 Min > 180 Min > 240 Min > OFF.
7. **Zoom** – Select viewable display options: Normal > Wide > Zoom > Cinema.
8. **CH LIST** – Press to display a list of channels saved in the TV tuner memory.
9. **Guide** – Press to review scheduled programming for the current channel viewed.
10. **FAV** – Press to display a list of favorite TV channels you have added.
11. **Freeze** – Pause and still-frame the current image on the display. Press again for live TV.
12. **Exit** – Press to exit a menu that is displayed.
13. **Home** – Return to the ROKU home screen.
14. **▼▲◀▶Arrows/ Enter/ OK** – Navigate menus to make selections. Press Enter or OK to confirm.
15. **Menu** – Press to display the Main menu.
16. **INFO** – Information button.
17. **◀◀** – Rewind video.
18. **▶▶** – Play/Pause toggle.
19. **▶▶▶** – Fast forward video.
20. **Volume (+/-)** – Adjust volume up (+) or volume down (-).
21. **Recall** – The button is relabeled with an icon that can be used for both last function (for TV watching) and instant replay (for Roku watching)
22. **Mute** – Press to temporarily turn sound off. Press again to resume.
23. **Channel** – ▲ / ▼ scan channels up (▲) or channels down (▼).
24. **Numbers / Dash** – Select desired TV channel directly. For example: to select digital channel four, press “4” “-” “1” (4-1).
25. **Input** – Press to display all input sources on screen.
26. **Audio** – Select preset sound modes: User > Standard > Music > Movie > Sports.
27. **Picture** – Select preset picture modes: Dynamic > Standard > Soft > Power Saving > User.
28. **CCD** – Select closed caption subtitles (if available) OFF > ON.
29. **NUMBER KEYS** – Press number keys to enter channel numbers.



1. **POWER/STANDBY** - Press the **POWER** button to turn the TV ON/ OFF (power). The screen image will appear within a few seconds, and the LED will turn on.

2. **Volume (+VOL-)** - Press the **VOL+ / VOL-** buttons to adjust the volume up or down.

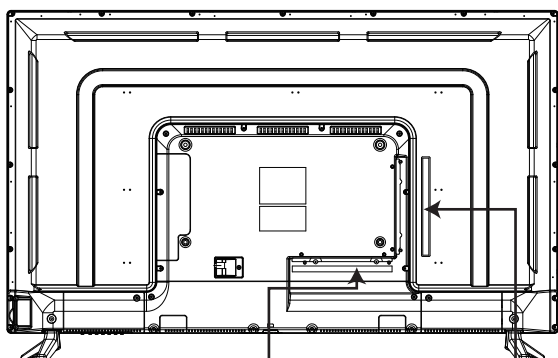
3. **Channel (+CH-)** - Press the **CH+ / CH-** buttons to select a channel in the TV mode.

4. **MENU** - Press the **MENU** button to display. Press **VOL+** to select from the 6 menu options available. Press the **CH+ / CH-** buttons to select a feature from the selected menu then press the **VOL+ / VOL-** buttons to adjust the volume settings.

5. **INPUT** - After connecting your DVD, cable box, etc. select the appropriate input source to view. Press the **INPUT** button to display the input options. Press the **CH+ / CH-** buttons to highlight the input source and press the **VOL+** button to select.

TV Overview

Rear Panel



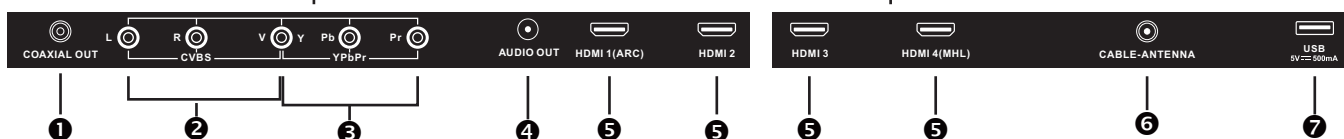
Wall Mounting

It is recommended that you consult a professional before mounting this TV a wall.

Use VESA 400x200 wall mount hardware.

Wall mount screws size: 4 x (M6 x 10)

NOTE: You must remove the pedestal before wall mounting.



1. COAXIAL OUT - Connect an optional coaxial digital cable (not included) through a compatible amp/receiver to enjoy superior audio sound.

2. AV - Connect an external device to the composite VIDEO (V) and AUDIO (L/R) out jacks found on most equipment.

3. Component Y Pb Pr Input - Connect to an AV device that features component (Y Pb Pr) video and audio output jacks.

4. AUDIO OUT - Connect to audio receiver.

5. HDMI1/2/3/4 IN - To connect to a High Definition (HD) signal output device, such as a set top box, blu ray disc player or AV receiver.

Note: MHL compatible devices can be connected to HDMI4 via a HDMI to MHL cable (not included).

Note: HDMI1 has ARC function.

6. CABLE-ANTENNA - Connect an antenna or cable connection for television reception.

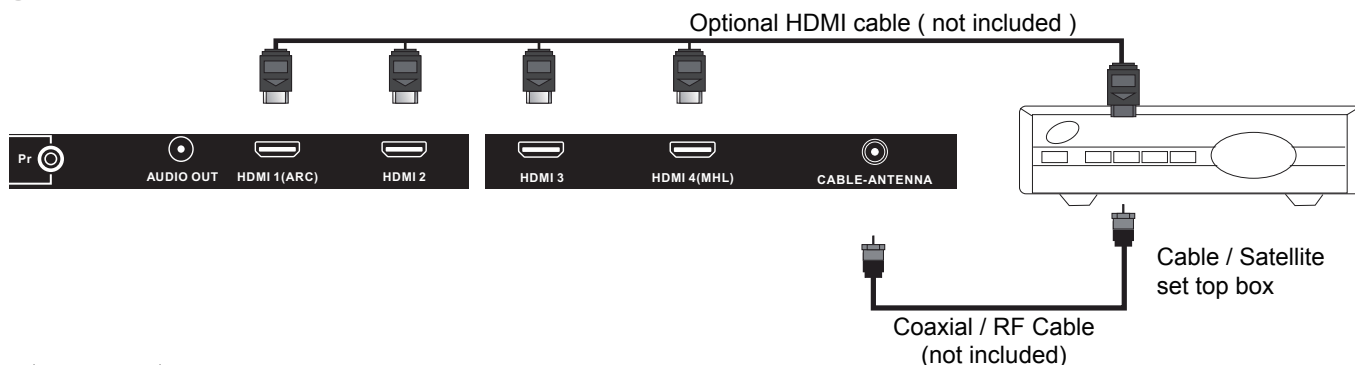
Note: Use an outdoor antenna, cable or satellite for best reception.

7. USB Input Port - Connect to portable USB device such as USB flash/hard drive (max storage capacity 400GB, supports MP3 and JPEG).

Installation

Connection to HDMI Input

Digital Cable / Satellite Set Top Box



How to connect

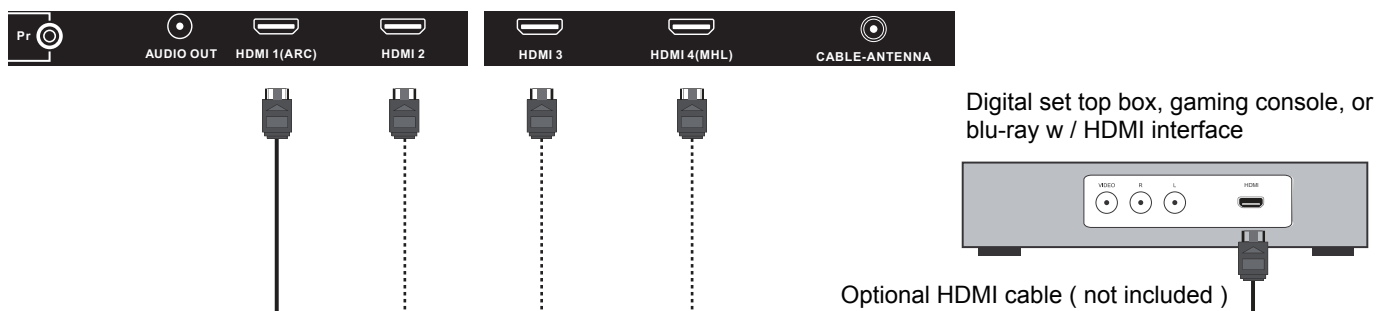
- On the back of your device, connect the HDMI cable from HDMI out on device to HDMI in on the panel.

How to Use

- Press the **INPUT** button on the remote, then use the ▼▲ arrows to highlight **HDMI**. Press **ENTER**.

NOTE: You can also connect a digital cable/satellite box using an RF coaxial (75 ohm) cable. Most cable/satellite systems require the TV to be set to Ch. 3 or 4 to display a picture.

Blu-ray, HD DVD, or Game Console

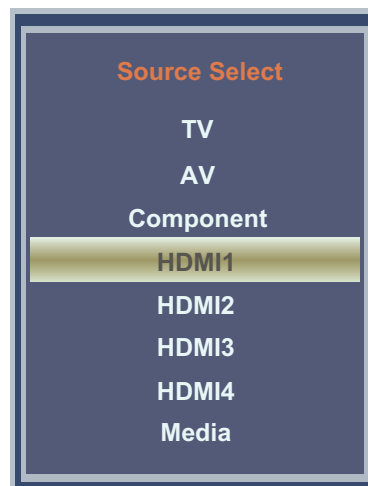


How to Connect

- On the back of your device, connect the HDMI cable from HDMI out on device to HDMI in on the panel.

How to Use

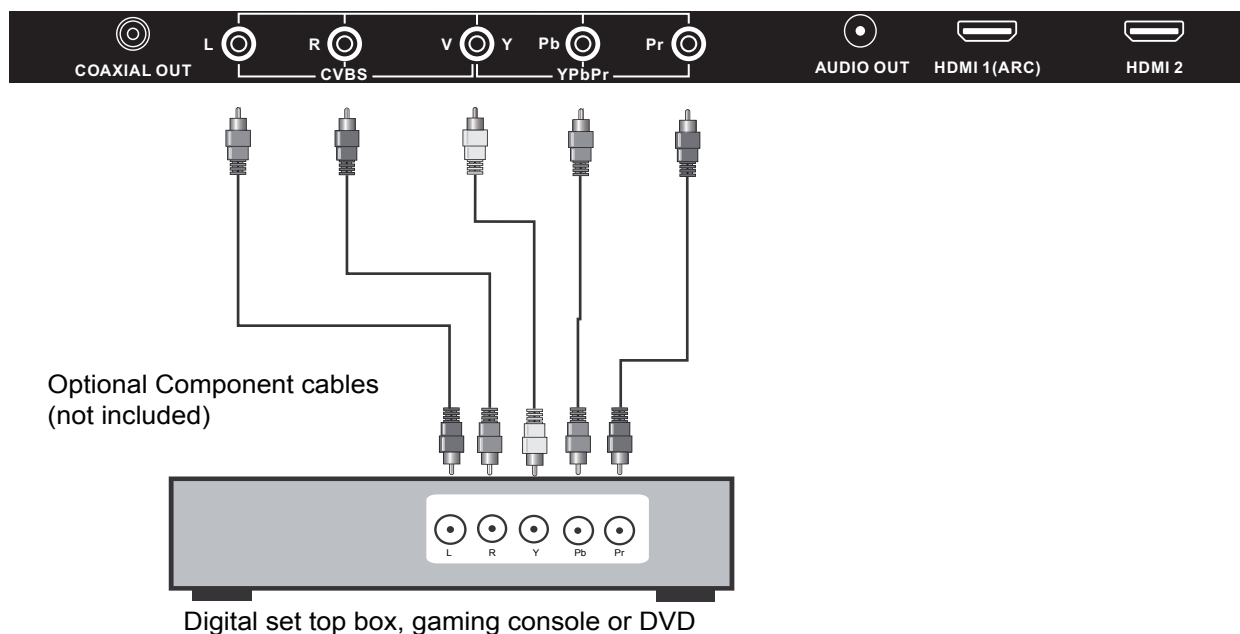
- Press the **INPUT** button on the remote, then use the ▼▲ arrows to highlight **HDMI**. Press **ENTER**.



Installation

Connection to Component YPbPr Input

Connecting a device with a Component connection.



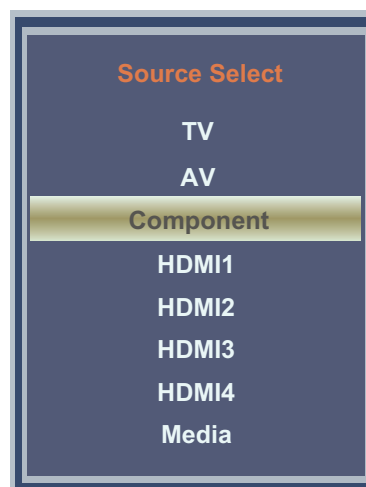
How to Connect

- Match and insert the green (Y), blue (Pb), and red (Pr) cables into the device and TV. Next, connect the red and white (L & R) audio cables.

*NOTE: The picture will be black & white if hooked up incorrectly. You must hook up audio cables separately.

How to Use

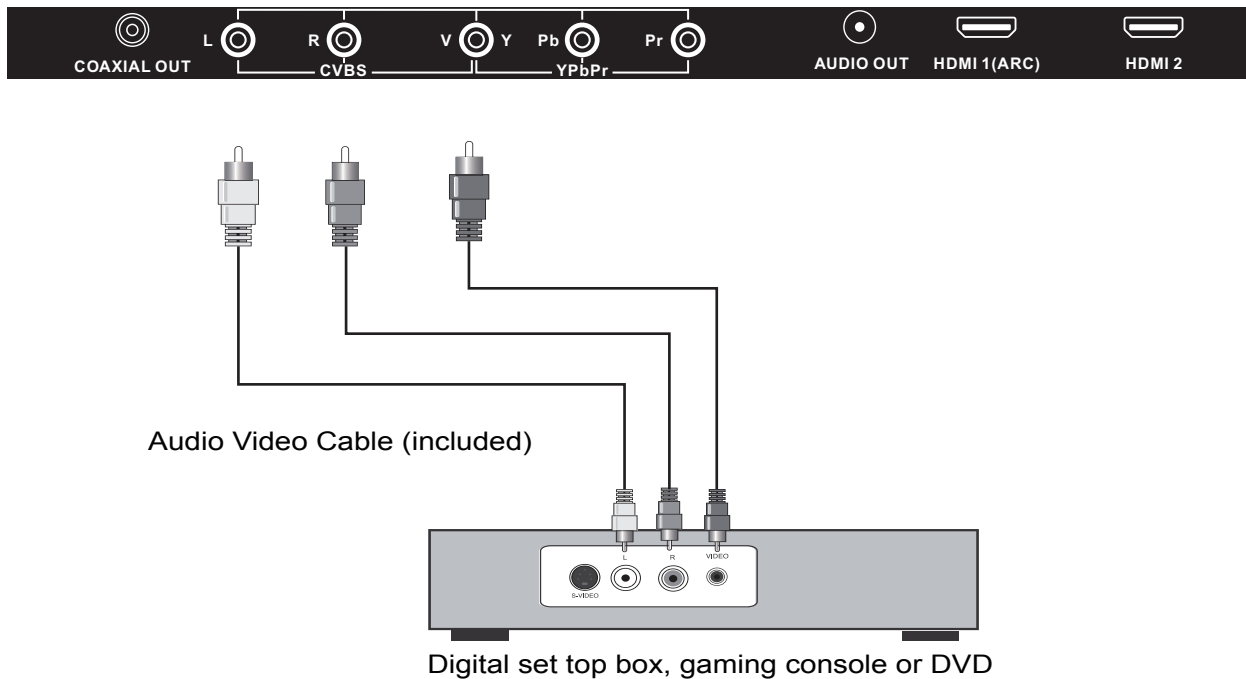
- Press the **INPUT** button on the TV remote. Then use the ▼▲ arrow buttons to highlight **Component**. Press **ENTER**.



Installation

Connection to Composite Input

Connecting a device with a Composite connection.



How to Connect

- Match and insert the yellow, red, and white A / V cables into the device and TV.

How to Use

- Press the **INPUT** button on the remote. Then use the ▼▲ arrow buttons to highlight **AV**. Press **ENTER**.



Installation

Connection to Antenna & Cable / Satellite Box

We recommend using a high quality roof top antenna, digital cable, or satellite box for the best display and performance.

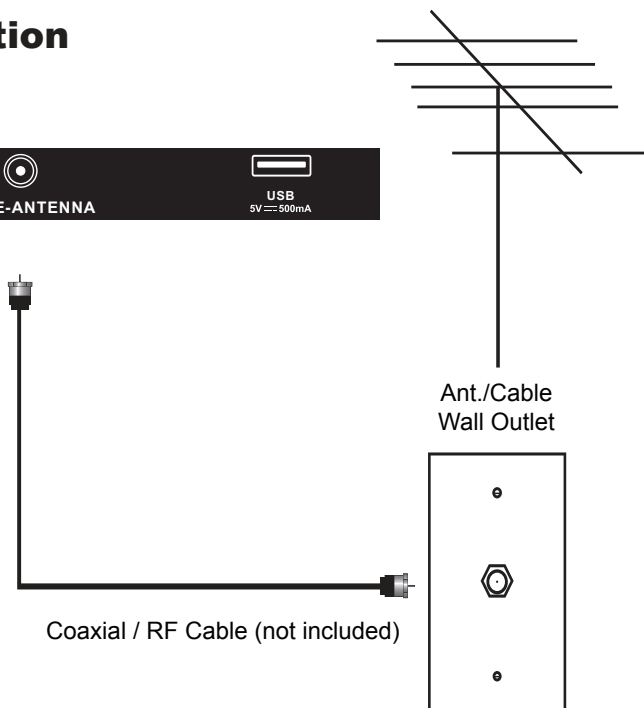
Note: Reception quality is determined by your location, geographical terrain, distance from the local broadcast transmitter, and strength of antenna.

Roof Antenna / Cable Outlet Installation



Connecting an antenna or basic cable service:

- Connect the RF coaxial (75 ohm) cable from existing roof top / in door antenna, or wall outlet.
- Finger tighten the Coaxial / RF Cable end to the TV input on the panel.



Connecting to an amplifier or home theater system

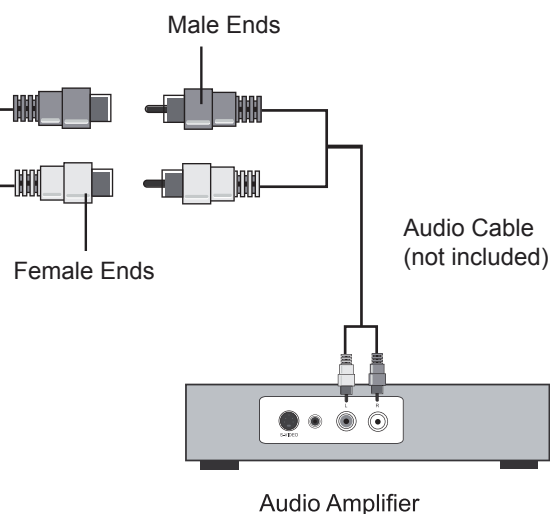


3.5mm Male to 2 RCA Female "Y" Adapter (Included)

How to Connect to an amplifier / surround sound system

- Insert the 3.5mm Male to 2 RCA Female "Y" Adapter into the "Audio Out" Jack on the TV. Match and insert the red and white audio cables from the "Y" Adapter to "Line In" on your amplifier.

NOTE: The TV's speakers will still output audio. You can turn the TV's speaker volume to 0 to prevent echoing.



Installation

Connection to a Home Theater System

Connection to a Home Theater Audio System



Coaxial cable
(not included)

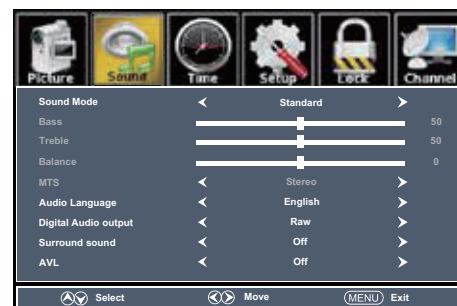
Connecting to a Home Theater System

Digital audio can deliver optimal 2 - channel stereo or 5.1 surround sound with Five discrete full range channels plus a separate channel for a subwoofer.

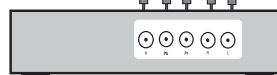
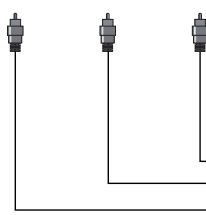
Connect an optional digital cable directly to the television's **COAXIAL OUT** audio output.

How To Setup Digital Output

- Press the **MENU** button on the remote control.
- Press the **►** arrow button to select **Sound**.
- Press the **▼** arrow button to highlight **Digital Audio output**.
- Press **►** to select **Raw** or **PCM**

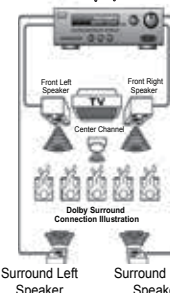


Connecting to a Stereo Receiver / Amplifier



Digital set top box, gaming console or DVD

Optional cables
(not included)



Dolby Prologic
Surround Receiver

How to Use (Video)

Press the appropriate **INPUT** button on the remote. Use **▼ ▲** arrow buttons to highlight the input source to view and then press **ENTER**.

How to Use (Audio)

Select the appropriate input from your audio equipment.

*NOTE: Refer to the User Manual from your home theater equipment for recommended audio settings.

IMPORTANT NOTE: If your TV is connected to a Cable or Satellite set top box **DO NOT** run the “Channel Auto Scan” in **STEP 3**.

Initial Setup Wizard

After connecting your TV antenna or cable wire, turn the television ON.

The quick Setup Wizard will display on-screen to help guide you through the 3 steps listed below:

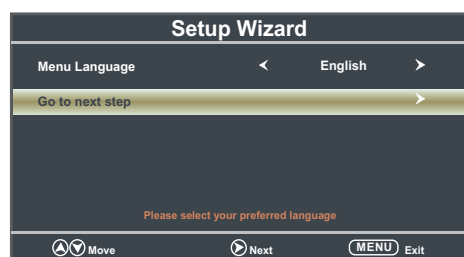
NOTE: the Setup Wizard only appears when turning on the TV for the first time.

How to Navigate the Setup Menus:

Use the ▲▼ arrow buttons on the remote to move to the menu selection.

Use the ◀▶ arrow buttons on the remote to choose the desired menu option.

STEP 1: Choosing a Menu Language

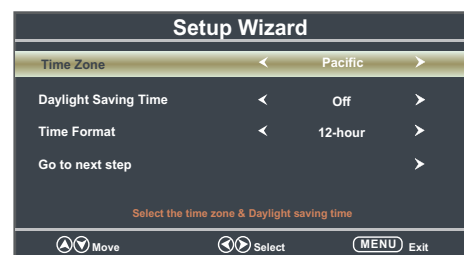


Use the ▲▼ arrow buttons to select **Menu Language**.

Use the ◀▶ arrow buttons to select **English - Francais - Español**.

Use the ▼ arrow button to select **Go to next step** and press the ▶ button to complete the step.

STEP 2: Setting the Time



Use the ▲▼ arrow buttons to select **Time Zone**, **Daylight Saving Time**, and **Time Format** selections.

Use the ◀▶ arrow buttons to select the desired setting.

Use the ▼ arrow button to select **Go to next step** and press the ▶ button to complete the step.

IMPORTANT NOTE: If your TV is connected to a Cable or Satellite set top box **DO NOT** run the “Channel Auto Scan” in **STEP 3**.

STEP 3: Setting Air/Cable and Channel Auto Scan

Note: Your type of television connection will determine if you should complete the Channel Auto Scan part of this step.

Use the ◀ ▶ arrow buttons to select **Air** or **Cable** based on your type of connection (Antenna or Cable without a set top box).



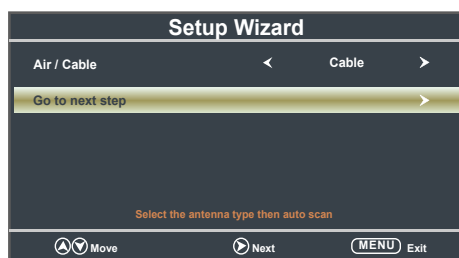
For Cable/Satellite Connections WITH a set top box:

Press the **MENU** button on the remote control to exit the **Setup Wizard**.

NOTE: You will see the message “PLEASE RUN AUTO SCAN” on the screen. Ignore this message as this is not necessary when using a set top box.

Press the **INPUT** button on the remote control to display the **Input Source** screen illustrated to the left.

Use the ▲ ▼ arrow buttons to highlight the input where the set top box was installed. Press **ENTER** to select the desired input.



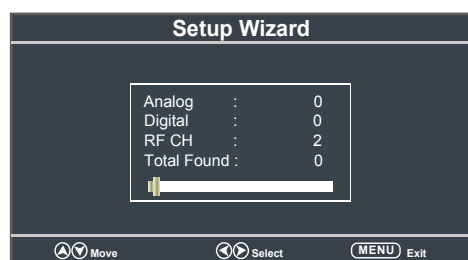
Initial Setup is now complete. You may now begin enjoying your TV, or make further adjustments to the TV settings which are explained in the following pages of this manual.

For Antenna & Cable Connections WITHOUT a set top box:

Use the ▼ arrow button to select **Go to next step** and press the ▶ button to begin the **Channel Auto Scan**.

Channel Auto Scan may take several minutes to complete.

Once **Channel Auto Scan** has ended, Initial Setup is complete. You may now begin enjoying your TV, or make further adjustments to the TV settings which are explained in the following pages of this manual.



Menu Adjustments

Picture Setting

The **Picture** menu offers options to enhance and refine the picture displayed on your TV based on ambient room light and personal preferences. Adjustment options include contrast, brightness, color, sharpness and color temperature.

How to Navigate:

Press the **MENU** button on the remote control. Navigate using ◀ ▶ arrow buttons to select **Picture**. Press the down ▼ arrow button to highlight **Picture Mode**, then press the ▶ arrow button to select your viewing preference from 5 factory options: Standard - Dynamic - Soft - User - Power Saving. The Standard setting is recommended for most brightly lit viewing environments. Depending on the ambient light level in the room, you may find one of the other Picture settings more pleasing.

To make more critical adjustments based on your own preferences select the User mode.

- **Brightness**

Press down ▼ arrow button to highlight **Brightness**. Navigate using the ◀ ▶ arrow buttons to increase or decrease overall brightness.

- **Contrast**

Press down ▼ arrow button to highlight **Contrast**. Navigate using the ◀ ▶ arrow buttons to increase or decrease contrast intensity.

- **Color**

Press down ▼ arrow button to highlight **Color**. Navigate using the ◀ ▶ arrow buttons to increase or decrease color intensity.

- **Tint**

Press down ▼ arrow button to highlight **Tint**. Navigate using the ◀ ▶ arrow buttons to adjust colors toward green or reddish tint.

- **Sharpness**

Press down ▼ arrow button to highlight **Sharpness**. Navigate using the ◀ ▶ arrow buttons to soften or view crisper edges in the picture.

- **Color Temperature**

Press down ▼ arrow button to highlight your **Color Temperature** preference. Navigate using the ◀ ▶ arrow buttons to select Cool (more bluish tone), Normal or Warm setting.

- **Advanced Settings**

Adjust advanced video features to fine tune the picture.
Press ▶ button to enter.



Note: When adjustments are completed, you may select another menu by pressing the **Menu** button.

Menu Adjustments

Audio Settings

The **Audio** menu offers options to make sound enhancements while listening through the built-in speakers or to select digital audio options when connected to a Dolby Digital receiver through an optical digital output.

How to Navigate:

Press the **MENU** button on the remote control. Navigate using ◀▶ arrow buttons to select **Sound**. Press the ▼ arrow button to highlight **Sound Mode**, then press the ▶ arrow button to select your sound preference from 4 factory options: Music - Movie - User - Standard

• Sound Mode

Press down ▼ arrow button to highlight **Sound Mode**.

Press ◀▶ button to select Music - Movie - User - Standard.

- Music: Preserves the original sound. Good for musical programs.
- Movie: Enhances treble and bass for a rich sound experience.
- User: Select to customize audio settings.
- Standard: Produces a balanced sound in all environments.



• Bass

Press down ▼ arrow button to highlight **Bass**.

Press ◀▶ buttons to increase or decrease low frequency intensity.

• Treble

Press down ▼ arrow button to highlight **Treble**.

Press ◀▶ buttons to increase or decrease high frequency intensity.

• Balance

Press down ▼ arrow button to highlight **Balance**.

Press ◀▶ buttons to adjust sound towards the left or right speaker.

• MTS

Press down ▼ arrow button to highlight **MTS**.

Press ◀▶ button to select Mono - Stereo - SAP.

Mono: Sets the sound to mono.

Stereo: Sets the sound to stereo when stereo is not available. The sound is automatically switched to mono.

SAP: Sets the sound to the second audio program.

• Audio Language

Press down ▼ arrow button to highlight **Audio Language**.

Press ◀▶ button to select English - Francais - Español.

• Digital Audio Output

Press ▲▼ button to highlight **Digital Audio Output**.

Press ◀▶ button to select (Raw - Off - PCM)



• Surround Sound

Press▲▼button to select Surround Sound.

Press◀▶ button to select (Off - On)

• AVL

Press down ▼ arrow button to highlight **AVL**.

Press ◀▶ button to select (Off - On)

• Speaker

Press▲▼button to select Speaker.

Press◀▶ button to select (Off - On)

Note: When adjustments are completed, you may select another menu by pressing the **Menu** button.

Menu Adjustments

Date & Time Settings

The **Time** menu includes adjustment of settings for your local time zone and daylight savings time. The clock will adjust automatically after the initial Channel Auto Scan of available broadcast channels in your area.

How to Navigate:

Press the **MENU** button on the remote control. Navigate using arrow ◀ ▶ buttons to select **Time**.

- Press down ▼ arrow button to highlight **Sleep Timer** then press the ▶ arrow button to select time to view before the television timer turns the set off: 5 Min - 10 Min - 15 Min - 30 Min - 60 Min - 90 Min - 120Min - 180 Min - 240 Min - OFF.
- Press down ▼ arrow button to highlight **Time Zone** then press the ▶ arrow button to select between: Eastern - Central - Mountain - Pacific - Alaska - Hawaii - Newfoundl and - Atlantic.
- Press down ▼ arrow button to highlight **Daylight Savings Time**. Navigate using the ◀ ▶ arrow buttons to select On or Off.
- Press down ▼ arrow button to highlight **Time Format**. Navigate using the ◀ ▶ arrow buttons to select either 12-hour or 24-hour.
- Press down ▼ arrow button to highlight **Auto Clock**. Navigate using the ◀ ▶ arrow buttons to turn this feature **On or Off**.
- **Clock** and Date are automatically set the first time the tuner receives a broadcast channel.



Note: When adjustments are completed, you may select another menu by pressing the **Menu** button.

Menu Adjustments

Setup Settings

In the **Setup** menu you may change the initial set up of preferences that include settings for language, menu display, computer monitoring, closed captions, enhancement of black detail in the picture and resetting your TV back to its factory default status.

How to Navigate:

Press the **MENU** button on the remote control. Navigate using arrow ◀ ▶ buttons to select **Setup**. Gain access to display options by pressing the down ▼ arrow button to highlight **Menu Language** or other options, then press ▶ arrow button on your remote to select.



• Menu Languages

Other languages include English, Français, Español.



• Input Label

Create labels for the devices connected to your TV.

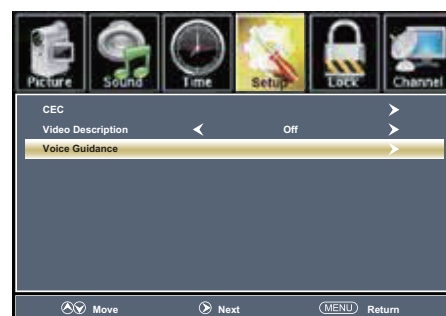
Press **ENTER** / ▶ button to enter.



• Setup Wizard

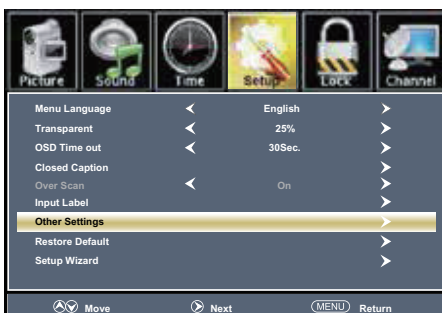
Set the first time installation.

Press **ENTER** / ▶ button to enter.



• Transparent

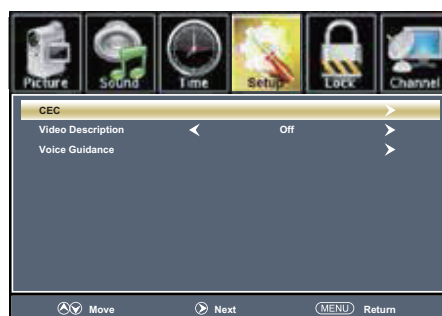
Navigate using the ◀ ▶ arrow buttons to adjust the transparency of the on screen display menu.



• Other Settings

Adjust the settings for Audio Only, and No Operation Power Off.

Press **ENTER** / ▶ button to enter.



• CEC

Press ▶ button to enter.



• OSD Time Out

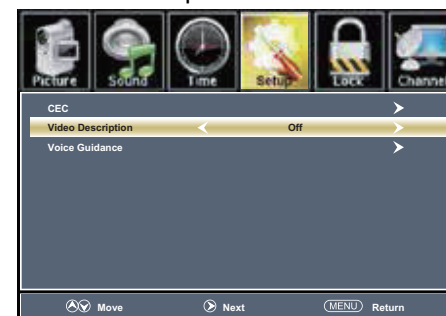
Adjust the duration of the OSD (on screen display) menu.

Press ◀ ▶ button to select.



• Restore Default

Press the ▶ arrow button to automatically reset all adjustments back to their original factory settings. The TV will request confirmation.



• Video Description

Press ◀ / ▶ button to select On or Off.

• Voice Guidance

Press ▶ button to enter.

NOTE: Closed Caption and Advanced are features described on the following pages.

Menu Adjustments

Closed Captions

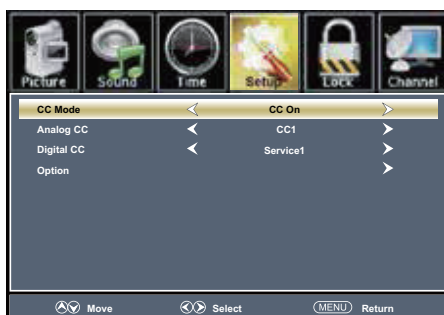
The **Setup** menu includes adjustments for activating the **Closed Caption** text feature for display on-screen and customizing CC display types and font styles.

How to Navigate:

Press the **MENU** button on the remote control. Navigate using arrow ◀ ▶ buttons to select **Setup**.



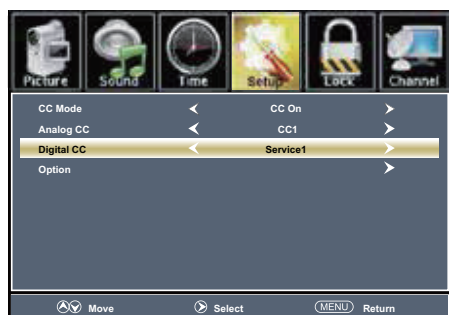
- Press the down ▼ arrow button to highlight **Closed Caption** then press the ▶ arrow button to highlight **CC Mode**.



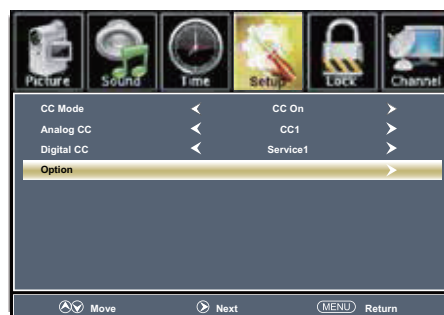
- Navigate using the ◀ ▶ arrow buttons to select **CC Off - CC On - CC on Mute**.



- Press down ▼ arrow button to highlight **Analog CC**. Navigate using the ◀ ▶ arrow buttons to select **CC1-4, TEXT1-4, off**.



- Press down ▼ arrow button to highlight **Digital CC**. Navigate using the ◀ ▶ arrow buttons to select **Off, Service 1-6**.



- Press down ▼ arrow button to highlight **Option**. Press the ▶ arrow button to enter a menu with options to customize text fonts, colors and opacities.

Note: When adjustments are completed, you may select another menu by pressing the **Menu** button.

Menu Adjustments

CEC Settings

The **CEC menu** includes options for controlling functions of compatible external devices connected via the HDMI input. Please refer to the instruction manual of your connected device to confirm if CEC control is possible.

How to Navigate:

Press the **MENU** button on the remote control. Navigate using arrow ◀ ▶ buttons to select **Setup**



- Press the down ▼ arrow button to highlight **CEC** then press the ▶ arrow button to highlight **CEC Control**.



- Navigate using the ◀ ▶ arrow buttons to select **On - Off**. When you select **On**, the **CEC** functions open. Otherwise the **CEC** functions close.



- Press the down ▼ arrow button to highlight **Device Auto Power Off**. Navigate using the ◀ ▶ arrow buttons to select **On - Off**.

If this item is “**On**”, the external device will be turned off automatically when the TV is powered off



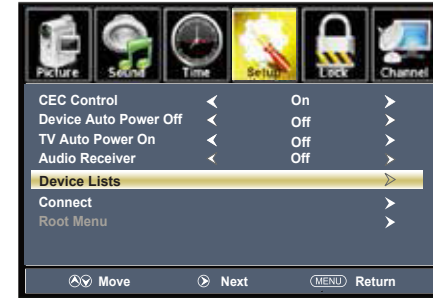
- Press down ▼ arrow button to highlight **TV Auto Power On**. Navigate using the ◀ ▶ arrow buttons to select **On - Off**

If this item is “**On**”, when the TV is turned on, the external device will turn to HDMI mode automatically during powering on.

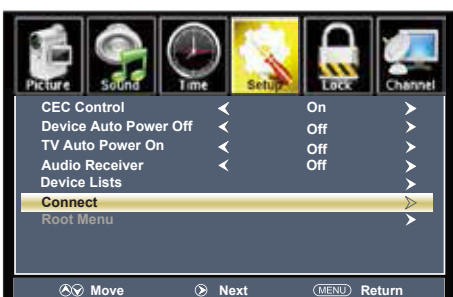


- Press down ▼ arrow button to highlight **Audio Receiver**. Press the ◀ ▶ arrow button to select **On - Off**.

If this item is “**On**”, users can control the volume of the external amplifier through adjusting the TV's volume.



- Press the ▼ arrow button to highlight **Device Lists**. Press the ▶ arrow button to enter.



- Press the ▼ arrow button to highlight **Connect**. Press the ▶ arrow button to connect TV and DVD Player.



- Press the ▼ arrow button to highlight **Root Menu**. Press the ▶ arrow button to enter DVD menu.

Note: When adjustments are completed, you may select another menu by pressing the **Menu** button.

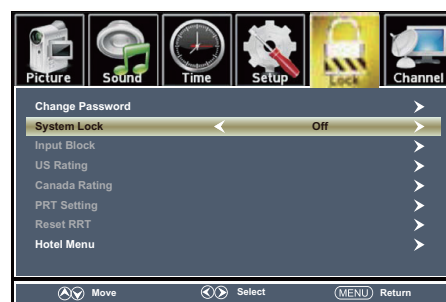
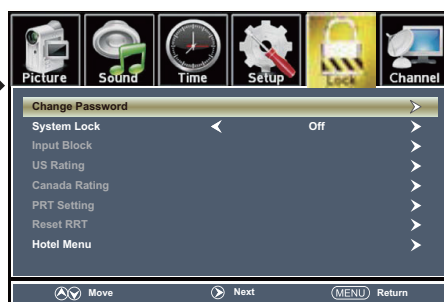
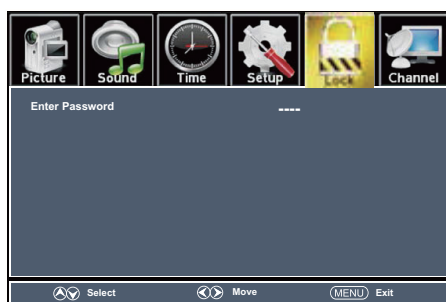
Menu Adjustments

USA Parental Control

In the **Lock** menu, you may block television and movie programming based on TV ratings and Motion Picture Association guidelines. To gain access and select your preferences within the Parental menu make certain your input is set to TV.

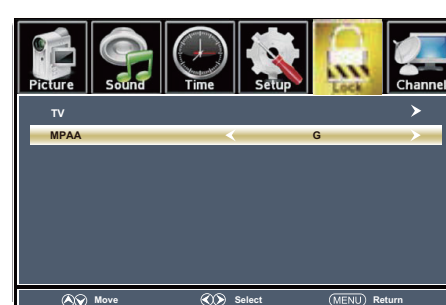
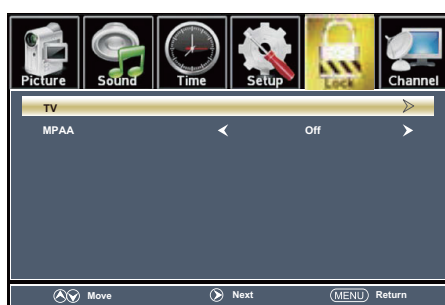
How to Navigate:

Press the **MENU** button on the remote control. Navigate using arrow ◀ ▶ buttons to select **Lock**. Gain access to parental rating options by pressing the down ▼ arrow button to highlight **Enter Password**. Enter your 4 digit code (factory default code is "0000") unless previously changed.



- To change the password, press ▶ arrow button to display a screen to enter your new password, then confirm again. (not illustrated)

- To make changes to parental controls, highlight **System Lock** then press the ◀ ▶ arrow button to ON.



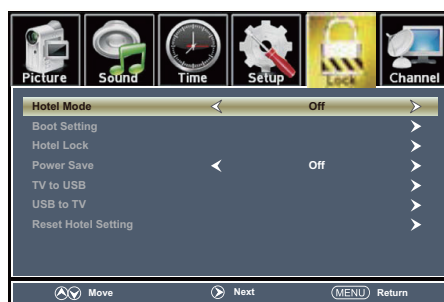
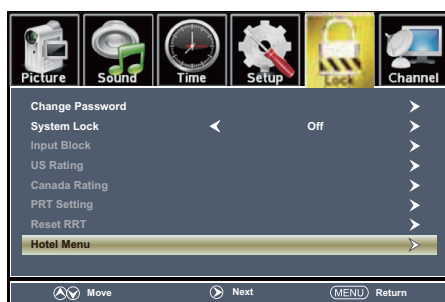
- To set parental controls for television programming or DVD movies, press the ▼▲ arrow buttons to highlight US Rating. Navigate using the ◀▶ buttons to highlight **TV / MPAA** menu.

- Highlight TV, then press the ▶ arrow button to enter the TV Ratings menu and select your preference.

- Highlight MPAA, then press the ▶ arrow button repeatedly to select your movie rating preference.

TV-Y Appropriate for all children
TV-Y7 Appropriate for children over 7
TV-G General Audience
TV-PG Parental Guidance Suggested
TV-14 Parents Strongly Cautioned
TV-MA Mature Audience Only

G General Audience
PG Parental Guidance Suggested
PG-13 Parents Strongly Cautioned
R Restricted
NC-17 No One Under 17 Permitted
X Adults Only



- To make changes to Hotel Mode, highlight **Hotel Menu** then press the ▶ arrow button

NOTE: PRT Setting and Reset RRT are not user adjustable settings.

Menu Adjustments

Canadian Parental Control

In the **Lock** menu, you may block television and movie programming based on Canadian TV and movie rating guidelines. To gain access and select your preferences within the Parental menu make certain your input is set to TV.

How to Navigate:

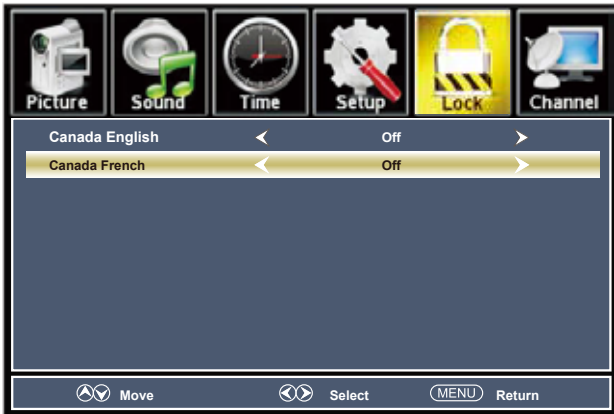
Press the **MENU** button on the remote control. Navigate using arrow ◀ ▶ buttons to select **Lock**. Gain access to rating options by pressing the ▼ arrow button to highlight **Enter Password**. Enter your 4 digit code (The factory default code is “0000”) unless previously changed. Then press the ▼▲ arrow buttons to highlight Canada. Navigate using the ◀ ▶ buttons to highlight **Canada English**.

- Navigate using the ▼ arrow button to highlight **Canada English** then press the ◀ ▶ arrow button repeatedly to select your ratings preference.



Off	Turn Off
C	Appropriate for all children
C8+	Appropriate for everyone 8 years old and up
G	General Audience
PG	Parental Guidance
14+	Appropriate for Children over 14 years old
18+	Mature Audience Only

- Navigate using the ▼ arrow button to highlight **Canada French** then press the ◀ ▶ arrow button repeatedly to select your ratings preference.



Off	Turn Off
G	General Audience
8 ans+	Appropriate for Children 8 years old and up
13 ans+	Appropriate for Children 13 years old and up
16 ans+	Appropriate for Children 16 years old and up
18 ans+	Mature Audience Only

Note: When adjustments are completed, you may select another menu by pressing the **Menu** button.

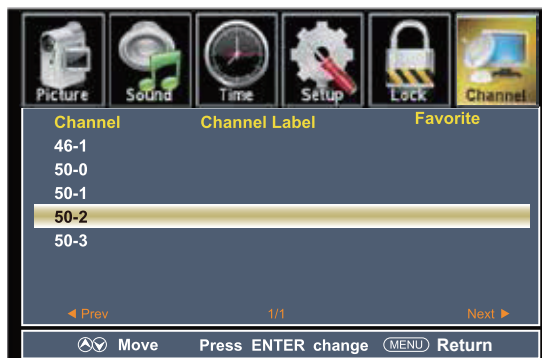
Menu Adjustments

Channel Settings

The **Channel** menu provides the setup / changes of your television to receive broadcast channels, store your favorite channels, add or skip channels in memory and label or name channels.

How to Navigate:

Press the **MENU** button on the remote control. Navigate using arrow ◀ ▶ buttons to select **Channel**. Press the down ▼ button to highlight your preferences.



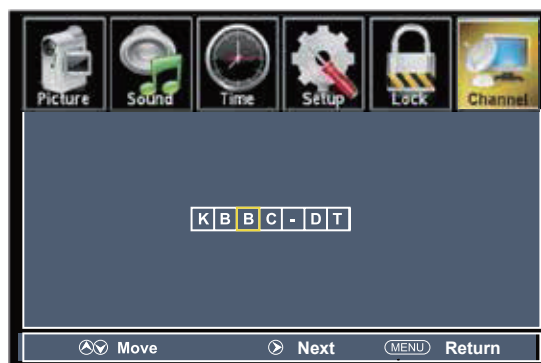
• Favorite

- Highlight **Favorite** to add channels to your Favorites List. Navigate using the ◀▶▼▲ arrow buttons to select channels to be added or deleted from your list. Press **ENTER** to add or delete a channel. A checkmark indicates a channel has been added. You may also display your list of **Favorite** channels by pressing the **FAV** button on the remote control



• Show / Hide

- Highlight **Show / Hide** to select or skip channels already in memory. Navigate using the ◀▶▼▲ arrow buttons to access the list of available channels. Press **ENTER** to change the channels status. A checkmark indicates a channel has been added.



• Channel Label

- Highlight **Channel Label** to name or rename a broadcast channel. Navigate using the ▶ arrow button to enter the screen menu to re-label a channel. Use the ▼▲ arrow buttons to spell out each letter, number or character. Use ◀ ▶ arrow buttons to advance to the next space.

TV Settings

TV Provider Changes & Channel Auto Scan After Initial Setup

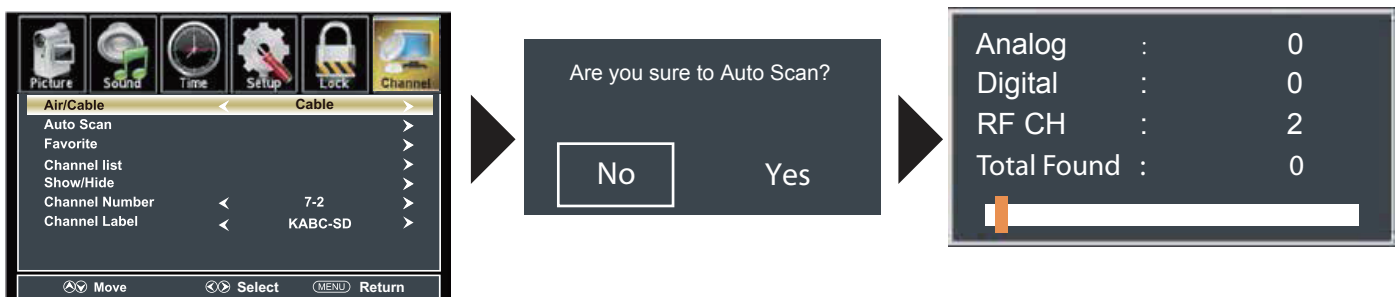
To make changes your TV provider or re-scan for available broadcast channels in your area, select the **Channel Menu**.

Note: For Cable or Satellite users with a set-top box, there is no need to run Channel Auto Scan. Connect your cable satellite set top box to one of the available inputs on the TV for viewing.

To enter the Channel Menu:

- Press the **MENU** button
- Using the ◀ ▶ arrow buttons; scroll to highlight **Channel**
- Press the down ▼ arrow buttons to highlight **Air / Cable**

Cable Mode

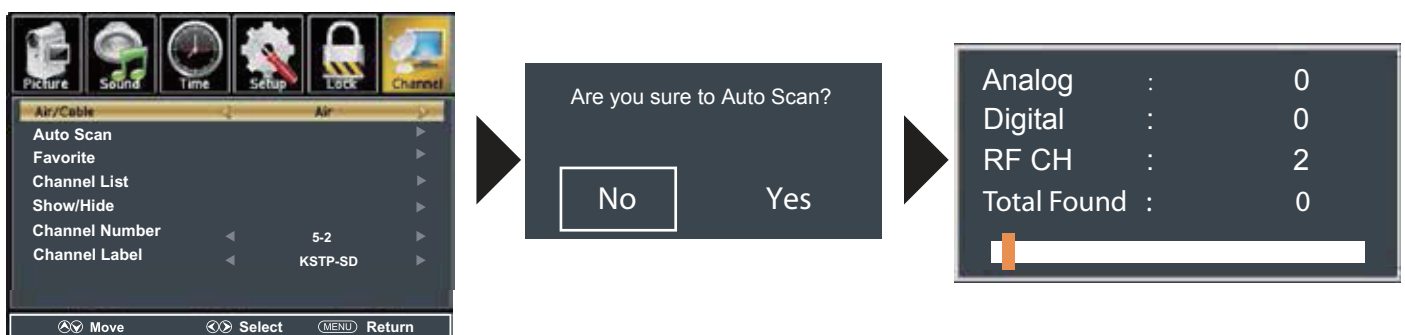


Select **Cable** if you subscribe to a pay television service without a set top box.

- Press the ◀ ▶ arrow buttons to highlight **Cable**
- Press the ▼ arrow button to highlight **Auto Scan** and press **ENTER**. Press the ▶ arrow button to highlight **YES** and press **ENTER** to begin **Auto Scan**.

NOTE: Channel Auto Scan may take several minutes to complete.

Air Mode



Select **Air** when TV is connected to an indoor / outdoor antenna.

- Press the ◀ ▶ arrow button to highlight **Air**.
- Press the ▼ arrow button to highlight **Auto Scan** and press **ENTER**. Press the ▶ arrow button to highlight **YES** and press **ENTER** to begin **Auto Scan**.

NOTE: Channel Auto Scan may take several minutes to complete.

ZOOM Modes

The ZOOM function offers several viewing display options on the 16:9 screen. Press the **ZOOM** button to cycle through the following widescreen settings.



Press **ZOOM** to cycle through the following widescreen settings.

1. NORMAL

Recommended for viewing native widescreen content and undistorted 4:3 images (with black bars).



2. WIDE

Stretches certain 4:3 content and may reduce visible black bars.



3. ZOOM

Stretches the image both vertically and horizontally to fill the screen when viewing widescreen content. The Zoom effect will crop images somewhat.



4. CINEMA

When viewing 4:3 content, Cinema mode will fill the entire screen eliminating visible side black bars. It may also eliminate or reduce black bars on certain widescreen movies.



USB Modes

1. Press the **INPUT** button on the remote control to display the Input menu. Use the **▲▼** buttons to select Media.

Press the **▲▼** buttons to select Media in the Source menu, and then press the **ENTER** button to enter.

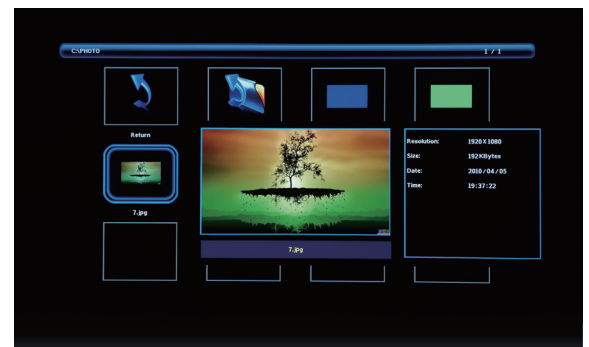


- Press the **◀/▶** buttons to select Photo or Music, and then press the **ENTER** button to enter the chosen menu.



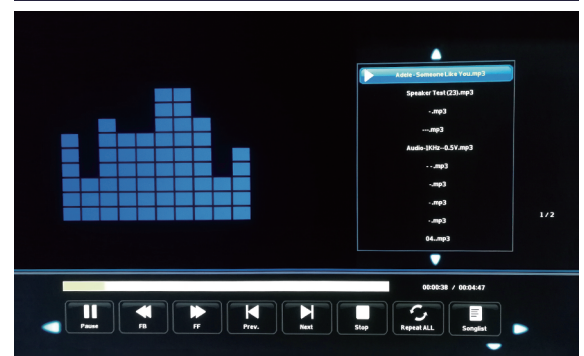
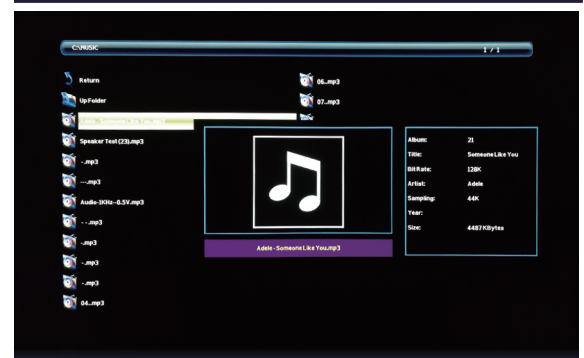
To View Photos on the TV:

- Press the **◀/▶** buttons to select Photo and then press the **ENTER** button.
- Press the **◀/▶** buttons to select the photo you want to view and press the **ENTER** button.
- Press the **▲ / ▼ / ◀ / ▶** buttons to select other pictures to view from the on-screen options.
- To return to the previous menu screen, press the **RETURN** button.



To Listen to Music on the TV:

- Press the **◀ / ▶** buttons to select Music, and then press the **ENTER** button.
- Press the **◀ / ▶** to select the song you want to hear, then press the **ENTER** button
- To return to the previous menu screen, press the **RETURN** button.



Press the **▲ / ▼ / ◀ / ▶** buttons to highlight the different playback functions (Play, Pause, Next, etc.) then press **ENTER** to select the highlighted function.

MHL Setting

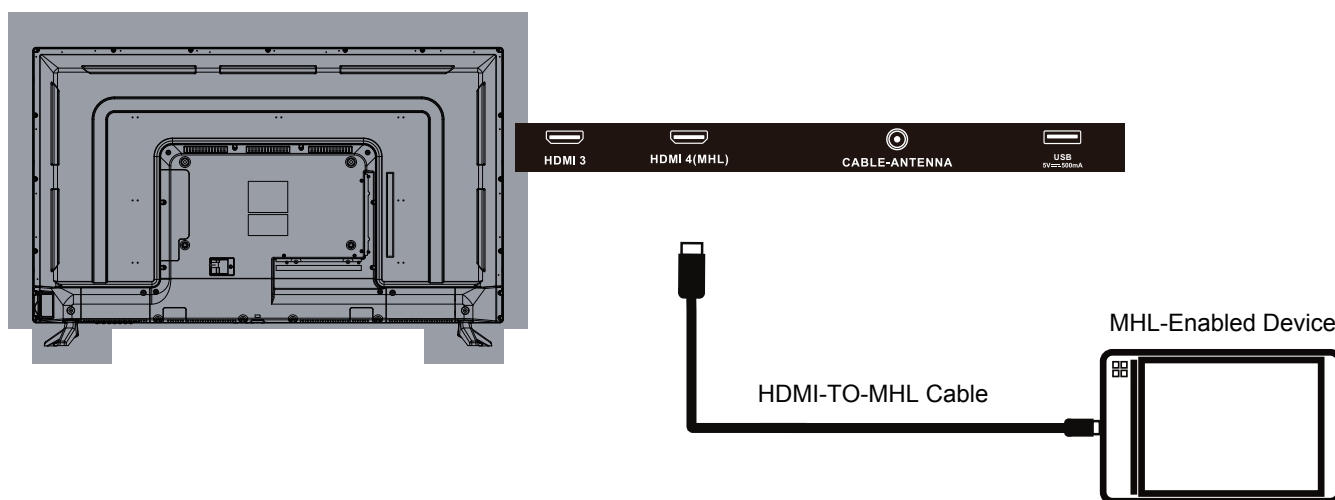
Connecting a MHL-enabled device

You can connect a MHL-enabled device, such as certain models of smartphones & tablets, and view the device's screen on the TV.

Connecting a MHL-enabled device to the HDMI4 (MHL) input requires a special MHL cable. (Not included)

To connect a MHL-enabled device:

1. Press **INPUT** to open the TV Input Source list.
2. Press **▲** or **▼** to select **HDMI4**, then press **ENTER**.
3. Connect a MHL cable to the micro USB port on the device, then connect the other end of the cable to the HDMI4 (MHL) jack on the TV.



4. You should now see the screen image of your connected device on the TV.

Specifications

Display	UHD LED
Size (inch)	50" Diagonal
Aspect Ratio	16:9
Digital Compatibility	480p / 720p / 1080i / 1080p / 2160p
Resolution	3840x2160
Brightness (cd/m2)	200
Dynamic Contrast Ratio	4000:1
Vertical Viewing Angle (degrees)	178°
Horizontal Viewing Angle (degrees)	178°
Maximum Colors (millions)	16.7M
Power Consumption	120 W
Audio Power	2 x 8W
Dimension without Stand	44.6" (W) x 26.2" (H) x 3.7" (D)
Weight (may vary \pm 10%)	21 lbs
Input Connections	<div> Composite Video (1)</div> <div> Y Pb Pr (1)</div> <div> HDMI (4)</div> <div> HDMI with MHL (1)</div> <div> CABLE-ANTENNA (1)</div> <div> COAX (1)</div> <div> AUDIO out (1)</div> <div> USB (1)</div>

Troubleshooting

Check for a possible solution to a symptom before contacting a customer service representative.

Symptom	Possible Solutions
Cannot receive certain channels through the antenna	<ul style="list-style-type: none"> • Perform Channel Scan to add channels into the TV tuner memory. See page 18. • Readjust your antenna and retry Auto Channel Scan. • Signal from the TV station may be weak in your area.
No color	<ul style="list-style-type: none"> • Check the video installation of your external A / V equipment. See pages 12-14.
Video noise or choppy picture	<ul style="list-style-type: none"> • Readjust antenna. Keep TV away from noise sources, neon lights, and microwave appliances.
TV blocked on certain channels	<ul style="list-style-type: none"> • Perform Channel Scan to add channels into the TV tuner memory. See page 18. • Check whether the channel was deleted. See page 27. • Check parental control settings. See pages 25, 26. • Restore default settings. See page 22.
Cannot use certain functions	<ul style="list-style-type: none"> • If the item chosen in a menu is shown in gray text, that item cannot be selected in the current input.
No sound	<ul style="list-style-type: none"> • Check that connected audio cables are completely inserted. • Verify you have selected the correct audio source from your amplifier. See page 16. • Mute function may be enabled, press mute on the remote.
Black box on screen	<ul style="list-style-type: none"> • The "Text" option is enabled and no text is available. • Press the CCD button on the remote control to turn off.
No power	<ul style="list-style-type: none"> • Batteries in the remote control may need replacing. • Re-attach AC plug to wall outlet.
No picture	<ul style="list-style-type: none"> • Digital TV channel signal maybe weak, try another channel. • Press INPUT button to verify the desired input selected. • Re-connect the antenna or cable wiring. • Restore default settings. See page 22.
Remote control does not function	<ul style="list-style-type: none"> • Replace batteries with new ones. • Check that battery polarity is correct. • Point remote directly at the TV's IR receiver. See page 7.