

## Connecting Devices to your TV

You have several options for connecting your TV to different devices. The method you choose will be based upon the type of cables you have and the available outputs on your device.

### Connecting an antenna, cable set-top box or satellite receiver

To connect an antenna, cable set-top box or satellite receiver:

1. Connect one end of a coaxial cable (not included) to the RF OUT port on the antenna, cable or satellite box. If you are using an antenna with twin-lead cable, you may need a 300-75 Ohm adapter (not provided) to connect it to the back of your TV. Likewise, if you are using several antennas, you may need a combiner (not provided).
2. Connect the other end of the cable to the ANT/CABLE port on the side of TV.
3. Using your remote, select the Inputs icon in Home screen and select Channels as the input source.

### Connecting a satellite receiver, DVD player or other audio visual (AV) devices with a composite video cable (yellow/white/red)

To connect an AV device with a composite video cable (not provided):

1. Use the audio and video cables to connect the composite video/audio ports of the external AV device to the AV IN ports of the TV. (Video = yellow, Audio Left = white, and Audio Right = red)
2. Plug the connected devices into the AV connectors on the TV before switching it on.
3. Using your remote, select the Inputs icon in Home screen and select Composite as the input source.

### Connecting an AV device with an HDMI cable

This 4K TV has two different software versions of HDMI ports to connect HDMI-enabled devices. The high-powered HDMI version 2.0 inputs that enable you to connect 4K Ultra-HD external devices, a better experience when connected to the HDMI1 port. For example, if you have an X-box or Blu-ray player that supports the 2.0 standard, more details will be transmitted to the TV screen to maximize your entertainment experience. The HDMI version 1.4 inputs are great for any of your external devices that support a standard full high-definition resolution of 1080p. Please refer to the User Manual that came with your device for step-by-step instructions.

To connect an AV device with an HDMI cable (not provided):

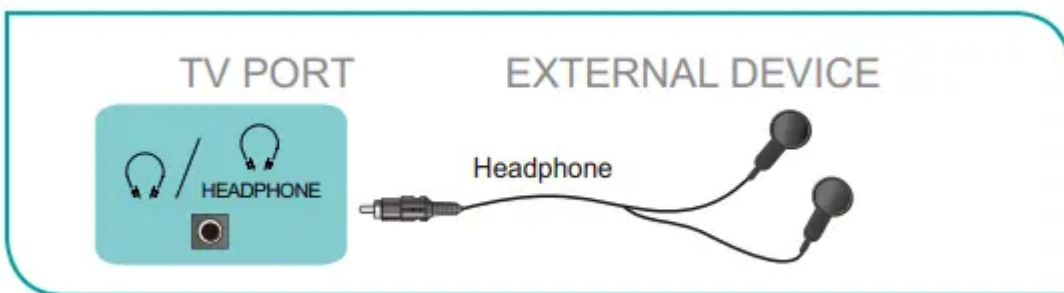
1. Use an HDMI cable to connect the HDMI output port of the AV device to the HDMI port of the TV.
2. Plug the connected devices into the HDMI port on the TV before switching it on.
3. Using your remote, select the Inputs icon in Home screen and select the corresponding HDMI input.

#### NOTES

- Because the HDMI connector provides video and audio signals, it is not necessary to connect an audio cable.
- We strongly recommend to use HDMI Cable with 2 cores as shown in the figure.

### Connecting a headphone

You can connect headphone (not provided) to the HEADPHONE port on your TV. While the headphone is connected, the sound from the built-in speakers will be disabled.



#### NOTES

- Headphones with microphones are not supported.
- If "Headphone with Speakers" in the sound menu is selected manually, the headset and the whole machine will have time at the same time

### Connecting a USB device

You can connect the USB devices such as hard drives, USB sticks and digital cameras for browsing photos, listening to music and watching recorded videos.

1. Connect a USB device into the USB port.
2. Select the content you want to play or view. For more information, see Media on page 31.



## NOTES

- When connecting a hard disk or a USB hub, always connect the mains adapter of the connected device to the power supply. Exceeding a total current consumption may result in damage. The USB1.1 and USB2.0 devices maximum current consumption are 500mA.
- For individual non-standard high-capacity mobile hard disk, if its impulse current is greater than 500mA, it may cause TV-rebooting or self-locking. So the TV does not support it.
- The USB port supports a voltage of 5V.

## Connecting speakers or other audio receivers

To connect speakers or other audio receivers with an audio cable (not provided):

1. Use an audio cable to connect the digital audio in port of the audio receiver device to the DIGITAL AUDIO OUT port of the TV.
2. Plug the connected devices into the main power socket before switching on the TV.

TIP: If you prefer to use Audio Return Channel, then see Connecting a digital sound bar to use Audio Return Channel (ARC) on page 8.

## NOTES

- When a digital audio system is connected to the DIGITAL AUDIO OUT port, decrease the TV and system volume.
- You can connect the DIGITAL AUDIO OUT port on the back of the TV to the Optical port on the Amplifier. Then go to the Settings / Menu > Sound > Advanced settings > Digital audio out to select Dolby Digital to receive the Dolby Digital audio.

## Connecting a digital sound bar to use Audio Return Channel (ARC)

If you'd like to use the Audio Return Channel (ARC) feature to have sound sent from the TV back down an HDMI cable to a digital sound bar, then you will need to connect the cable to the HDMI / ARC port. By using this feature, you will also be able to control the sound bar with your TV remote instead of using multiple remotes for each device.

To connect a digital sound bar with an HDMI cable (not provided):

1. Connect the cable that's attached to the sound bar to the HDMI / ARC port on the TV.
2. Turn on the sound bar by pressing the Power button.
3. Press the button on your remote and select the Settings icon, then go to Sound > Speakers.
4. Select the ARC option.

## NOTES

- Only digital sound bars that require a wired connection are compatible with the TV.
- If the device has an Input Selector feature then make sure to change it to TV.
- 5.1 CH (channel) audio is available when the TV is connected to an external device that supports a 5.1 channel surround sound. You can go to the Settings / Menu > Sound > Advanced settings > Digital audio out to select Dolby Digital Plus to receive the 5.1 channel audio. You will need to also go into the sound or audio settings of your device to ensure it is set to 5.1 Channel output. It may read 'Bitstream', 'RAW' or 'Digital'. HDMI ARC HDMI

## Connecting Your TV to a Wireless or Wired Network

You have the option to connect your TV to a wireless or wired network to access the Internet. For more information about the network settings on TV, see Network on page 25.

### Connecting to a wireless network

Our built-in wireless LAN adapter supports the IEEE 802.11 ac/b/g/n communication protocols and we recommend that you use an IEEE 802.11n or IEEE 802.11ac router. When you play a video over an IEEE 802.11 b/g connection, the video may not play smoothly.

## NOTES

- You must use the built-in Wireless LAN Adapter to use a wireless network because the set does not support an external USB network adapter.
- To use a wireless network, your TV must be connected to a wireless IP sharer. If the wireless IP sharer supports Dynamic Host Configuration Protocol (DHCP), your TV can use a DHCP or static IP address to connect to the wireless network.
- Select a channel for the wireless IP sharer that is not currently being used. If the channel set for the wireless IP sharer is currently being used by another device nearby, this will result in interference and communication failure.
- If you apply a security system other than the systems listed below, it will not work with the TV.

- If Pure High-throughput (Greenfield) 802.11N mode is selected and the Encryption type is set to WEP, TKIP or TKIP-AES (WPS2 Mixed) for your Access Point (AP), then the TV will not support a connection in compliance with these Wi-Fi certification specifications.
- If your access point (AP) supports Wi-Fi Protected Setup (WPS), you can connect to the network via Push Button Configuration (PBC) or PIN (Personal Identification Number). WPS will automatically configure the SSID and WPA key in either mode.

## Connecting to a wired (Ethernet) network

You can attach your TV to your LAN in one of the three following ways:

- **Option 1**

You can attach your TV to your LAN by connecting the LAN port on the back of your TV to an external modem using a Cat 5 LAN cable. See the illustration below.

- **Option 2**

You can attach your TV to your LAN by connecting the LAN port on the back of your TV to an IP Sharer which is connected to an external modem. Use an Ethernet cable for the connection. See the illustration below.

- **Option 3**

Depending on how your network is configured, you may be able to attach your TV to your LAN by connecting the LAN port on the back of your TV directly to a network wall outlet with an Ethernet cable. See the diagram below.

If you have a Dynamic Network, you should use an ADSL modem or router that supports Dynamic Host Configuration Protocol (DHCP). Modems and routers that support DHCP automatically provide the IP address, subnet mask, gateway, and DNS, so you don't have to enter them manually. Most home networks are Dynamic Networks.

Some networks require a Static IP address. If your network requires a Static IP address, you must enter the IP address, subnet mask, gateway, and DNS values manually on your TV's Cable Setup Screen when you set up the network connection. To get the IP address, subnet mask, gateway and DNS values, contact your Internet Service Provider (ISP).

**NOTE:** You can use ADSL modems that support DHCP if your network requires a static IP address. ADSL modems that support DHCP also let you use static IP addresses.

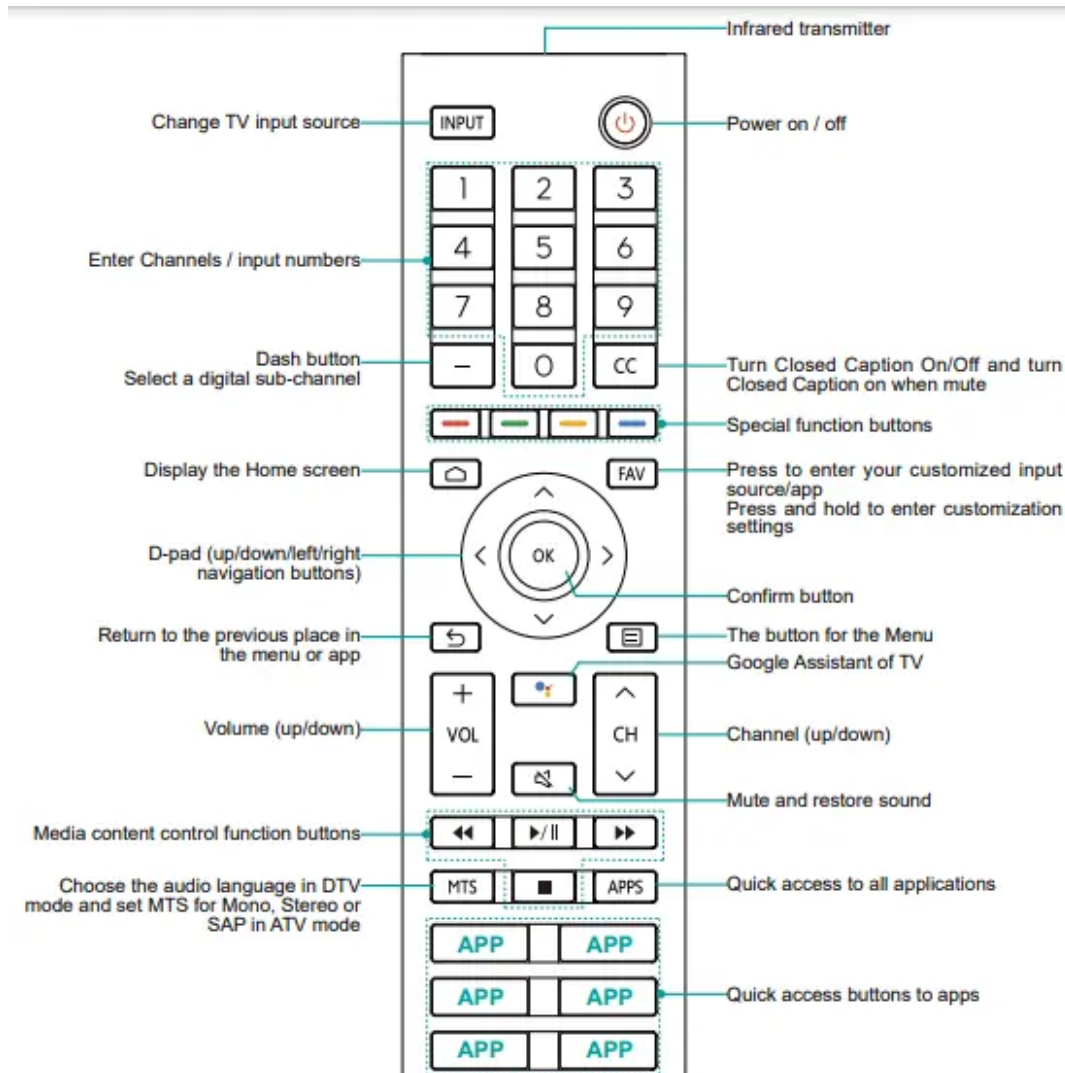
## Using Your TV Remote Control

### Buttons on your TV remote

#### NOTE

- The buttons are only for reference, actual remote may vary in appearance.

- The remote supports both infrared and Bluetooth connection mode.



## Remote control range information

- The remote control can work at a distance of up to 26 feet in front of the TV set.
- It can work at a 30 degree horizontal or vertical angle.

## Begin using your remote


1. Slide the back cover to open the battery compartment of the remote control.
2. Insert two AAA size batteries. Make sure to match the (+) and (-) ends of the batteries with the (+) and (-) ends indicated in the battery compartment.
3. Replace the battery compartment cover.

## NOTES

- Discard batteries in a designated disposal area. Do not throw them into a fire.
- Remove old batteries immediately to prevent them from leaking into the battery compartment.

- If you do not intend to use the remote control for a long time, remove the batteries.
- Battery chemicals can cause a rash. If the batteries leak, clean the battery compartment with a cloth. If chemicals touch your skin then wash it immediately.
- Do not mix old and new batteries.
- Do not mix alkaline, standard (carbon-zinc) or rechargeable (NiCd, NiMH, etc.) batteries.
- Do not continue using the remote if it gets warm or hot.
- Call our Support Center immediately on the support website.

## Pairing the Remote Control

1. Pair the remote to the TV after you power it on. Keep the remote control within 10 feet from the TV. Press and hold the  button at least 3 seconds to start pairing.
2. If the remote paired successfully then a confirmation will display on the screen. If it did not pair successfully then an unsuccessful message will display. Repeat step 1.

See Remote on page 26 for more information.

### NOTES

- If an unknown error occurred with the remote then it could have been caused by interference. Try to remove what's causing the interference and pair it again.
- If an unknown error occurred in the remote control while the battery power is normal, you can take out the batteries and press any key for 1~2 seconds, then the remote control can work normally.
- The remote cannot be paired to the TV while the TV is in standby mode.

## Completing the Setup Wizard Menu

Plug the power cord into an AC outlet, the TV will turn on.

After the splash screen that displays the logo appears, begin the Setup Wizard menu.

The guide setting is completed according to the boot navigation prompt. The navigation information is specific to the actual condition.

The Home screen will be your starting point for navigating the TV.

## Shortcuts Instructions

You can use shortcuts on the remote control for fast operation.

## Turning your TV on or off

### To turn your TV on:

1. Connect the power cord to the back of the TV, then plug the power cord into an AC outlet.
2. When the TV is powered on, press the button on the remote to turn on TV.
  - To turn your TV off, press the button on the remote.

### NOTES

- When your TV is in standby mode, it is still consuming power. To completely disconnect power, please remove the plug from the AC outlet.
- If your TV does not receive an input signal for several minutes, it automatically goes into standby mode.

## Using the Live TV

To view broadcast programs, press the button on your remote, select the IM Inputs icon in Home screen and select Channels as the input source.

### Channel search guide

When you select Channels as input, if no TV channels were saved before, you will be prompted to do a channel search.

You can also go to **Menu > Channels** to change the channel settings.

### Launch Live TV

After channel scanning is done for the first time, the screen will display LiveTV operating tutorial, including: how to Load info Bar, how to load the channel list and so on.

Press the **UP** button to view channel and program information.

Press the **OK** button to view Channel List

Press the **MENU** button to configure settings of broadcast TV.

Press the **BACK** button to return to the channel last viewed.

### Viewing channel information

As you use the [ **CH /** ] button on your remote to scroll through channels, an information banner appears on the top of the screen.

The information banner displays the following information:

1. Channel number
2. Lock status
3. Input

4. Program name
5. Show identification
6. Channel name
7. Current date and time
8. Beginning and end time of the next program
9. Start/Stop time progress bar of the current program
10. Prompt
11. Favorite channel

If you are watching a particular channel, you can also press the [ **Up** ] button of your remote to view channel information.

### **Viewing a channel list**


After you have done an automatic channel scan (if you're using an antenna) or receiving your channels through a cable provider, you can view your list of channels by pressing [OK] on your remote.

You will see the channel list display on the right side of the screen.

### **Creating a Favorite List**

To quickly access your most-watched channels, you can create a Favorite List in one of two ways.

- The first way is to create your Favorite List in Menu:

1. Press the  button to access the Menu in Channels source.
2. Select Channels > Favorite List.
3. Using the [Up / Down] buttons of your remote, select a channel and press [OK] button.

- The second way is to create your Favorite List in channel list:

1. Press the [OK] button to call out the channel list in Channels source.
2. Select a channel and add it by using the Special function buttons on your remote.

A heart-shaped indicator will appear beside the channel as confirmation that it has been successfully added.

### **Viewing your Favorite list**

To view channels that you've added to your Favorite List simply press [OK] on your remote to call out the channel list.

The channel list appears on the right side of the screen and heart-shaped icons are shown next to the channels that make up your Favorite List. You can press the [ **Left / Right** ] buttons to switch the channel list (ANTENNA or CABLE) , FAVORITE and HISTORY list.

## Using shortcuts

### Google Assistant

You can press the button to turn on your Google Assistant, use your voice to ask it questions, tell it to do things.

### Closed Caption (CC)

You can switch among Off, On and On when mute.

### Narration (NRT)

You can switch between Video Description On and Video Description Off.

### Audio Language (MTS)

You can choose the audio language in DTV mode and you can set MTS for Mono, Stereo or SAP in ATV mode.

## Home

### Getting familiar with the Home screen

The simple design of the Home screen menu makes it easy to navigate. And you can easily add or delete applications in the Home interface according to your needs.

To access the Home screen, press the button on your remote control and use the D-pad to make your selection.

Indicators and Icons on the top of the Home screen

- **Google Assistant:** You can search movies, TV, and more by speaking.
- **Google Search:** You can search movies, TV, and more by typing.
- **Notifications:** Notifications can come from the system, an external device, an application, the media player etc.
- **Inputs:** Select the Input source depending on the device you have connected to your TV.
- **Settings:** Settings lets you configure the TV, set app options, add accounts, and change other preferences.
- **Time:** You can always view the current time at the top right corner of the Home screen.

### Names of sections that appear on the Home screen


The Home screen displays the following section names:

- **Apps**
- **Feature Apps**
- **Recommended content**

## Menu

Your TV comes with many TV setting features to allow you to customize the picture based on your viewing preference and environment. As you navigate throughout different screens to access settings, some of the indicators appear as words On and Off.


### Using the Menu

You can press the  button to access the Menu in TV mode.

The Menu consists of the following settings:

- **Picture**
- **Sound**
- **Channels**
- **Parental Controls**
- **Audio Only**
- **Live TV Closed Captioning**
- **Audio Language(MTS)**
- **Sleep Timer**
- **Settings**
- **Help**

In each menu, you can:

- Press the **[Up / Down]** buttons to select an item.
- Press the **[OK]** buttons to enter the sub-menu or to set on or off.
- Press the **[Left / Right]** buttons to adjust the value.
- Press the  button to return to the previous menu.

### Sound

- **System sounds:** Open the default system sound.
- **Sound Mode:** Select a preset sound mode to suit the type of content you are listening to: Standard, Theater, Sports, Music, Speech, Late Night and Auto Mode. Sound mode options may vary depending on models.

Once you choose the mode, you can adjust the audio based on the following settings:

- **Audio Output:** Select the speakers which you want to use: TV Speaker, ARC or Bluetooth.

- **TV Speaker:** Turn on or off the TV speaker. If ARC or Bluetooth is selected in Audio Output, configuration here is unavailable.
- **TruBass HDX:** Optimizes overall sound quality by increasing bass, making dialog clear and natural, and widening the sound field.
- **TruSurround: X:** Provides surround sound experience with psycho-acoustic processing to place sounds beside, behind, and above the viewer. For best results use with Surround Sound.
- **Dialog Clarity:** Improve dialogue clarity.
- **TruVolume HD:** Maintains consistent loudness levels from wide dynamic range programs, loud commercials, and channel or input changes.
- **Wall Mount Setup:** Automatically optimize the sound based on the position of the TV.
- **Advanced Settings:** Tune the audio settings and quality of the TV.
  - **Balance:** Adjust the left and right speaker strength to optimize audio for a specific location.
  - **Auto Volume Control:** Turn Auto Volume Control on or off.
  - **Digital Audio Out:** Select the digital audio output format that best suits the audio device type.
  - **Digital Audio Delay:** Adjust the digital audio output delay time to sync sound from an external speaker with the images on the TV.
  - **Lip Sync:** Synchronize the displayed image with the audio output.
  - **Equalizer:** Boost the volume at different frequencies.
  - **Preferred Audio Language:** Set the default audio output language for the type of digital broadcast content that you're viewing.
  - **Headphone Mode:** Disable the TV speaker when you are using a sound bar, ARC or any other external audio amplifiers.
  - **Headphone Volume:** Change the way audio is sent through the type of device that's connected to your TV Audio
  - **Out port.**
  - **Reset:** Reset current audio settings to factory mode

## Channels

- **Tuner Mode:** Select if you receive TV channels over the air (antenna) or through a cable set top box.
- **Auto Channel Scan:** Automatically scan for channels.
- **Manual Scan:** Type in a channel to add it manually to your TV.
- **Channel Skip:** Skip selected channels from your Channel List.

- **Favorite List:** Add Channels to your Favorite List.

## Parental Controls

The Parental Controls setting allows you to block content that is not appropriate for children to watch.

### Turning Parental Controls On

1. Press the **[OK]** button on your remote to turn Parental Controls on.
2. Create PIN window displays. Using the D-pad on your remote, create the password.

You will see the other Parental Controls settings change from a greyed out state to highlighted. When this occurs, begin adding other settings to the Scheduled blocking, Channel blocking, Program blocking, Input blocking, Change PIN or Reset features.

- **Scheduled blocking:** Block all selected channels and programs during selected periods of time.
- **Channel blocking:** Block selected channels.
- **Program blocking:** Block programs by ratings. For more information about Ratings, See Description of U.S. TV Ratings on page 22.
  - **Block Unrated:** Block or unblock unrated movies.
- **Input blocking:** Block selected inputs.
- **Change PIN:** Change the PIN that you use to access Parental Controls.

**NOTE:** If you forget your password, call the Consumer Electronics Care Center.

- **Reset:** Reset Parental Controls back to the factory setting.

## Live TV Closed Captioning

- **Closed Caption:** You can switch between Off, On and On when mute in Channel mode.
- **Analog Closed Caption:** Select an Analog Closed Caption setting from Off, CC1-CC4, TEXT1-TEXT4.
  - **CC1-CC4:** Closed Caption appears in a small banner across the bottom of the screen. CC1 is usually the “printed” version of the audio. CC2-CC4 display content provided by the broadcaster.
  - **TEXT1-TEXT4:** Closed Caption that covers half or all of the screen. TEXT1-TEXT4 display content provided by the broadcaster.
  - **Off:** To turn off the Analog Closed Caption.
- **Digital Closed Caption:** Select a Digital Closed Caption: Off, Service1-Service6.

- **Digital caption style:** There are two caption styles. One is the Auto, while the other is the Custom style where you can adjust the Font Size, Font Style, Font Color, Font Opacity, Background Color etc.

## Audio Language (MTS)

You can choose the audio language in DTV mode and you can set MTS for Mono, Stereo or SAP in ATV mode.

## Audio Only

When you select this option, the screen will not display the picture. You can only listen the audio. Press any button except the button, [ ] buttons and [ ] button to restore operation.

## Sleep Timer

Set the sleep timer to automatically turn the TV off within a specified time: off, 10 Minutes, 20 Minutes, 30 Minutes, 40 Minutes, 50 Minutes, 60 Minutes, 90 Minutes and 120 Minutes.

## Settings

Settings lets you configure the TV, set app options, add accounts, and change other preferences. For more information about Settings, See Settings on page 25.

## Help

- **System message:** View system message, including: Serial Number, Service Code, Software Version etc.
- **Signal information:** Perform self diagnosis to test sound, picture and connections.

## Media

Media is a central location for you to view or listen to different types of content (for example, your photos, music and movies) through the following methods:

- A USB thumb drive or hard drive
- Compatible mobile phone, tablet or other personal devices: You can stream movies, music and photos that are stored on Compatible personal device and play or view the content on your TV.

## File formats that may be supported

**NOTE:** Due to differences in programming tools and other factors, some of the file formats that are listed may or may not be supported.

## Browsing Content

You have two ways to enter Media:

- Insert a USB device, and your TV automatically goes to the Media.
- When your USB device is connected to the TV that doesn't show Media page, press the [ APPS ] button on your remote, and browse down to click Media.

To browse content based on the type that you wish to access:

1. Navigate to the appropriate menu tab on the screen and select All Media, Music, Photos, Videos or Search.
2. Click on the name of the folder that contains your content.
3. Make your selection to play or view the content.

If you want to close out of the Media center, press the [ ] button on your remote.

## Quick Problem-Solving Tips

When you experience an issue with your TV, turn it off and on again. If this does not resolve the problem, then refer to the tips below. If the problem is still not resolved, then contact us.

### No sound or picture

- Check if the power cord is plugged into a powered AC outlet.
- Press the button on the remote control to activate the unit from 'Standby' mode.
- Check to see if the LED light is on or not. If it is, then the TV is receiving power.

### I have connected an external source to my TV and I get no picture and/or sound

- Check for the correct output connection on the external source and for the correct input connection on the TV.
- Make sure you have made the correct selection for the input mode for the incoming signal.

### When I turn on my TV, there is a delay for a few seconds before the picture appears. Is this normal?

- Yes, this is normal. The TV is initializing and searching for previous setting information.

### The picture is normal but there is no sound

- Check the volume settings.
- Check if 'Mute' mode is set to On.

### Sound but no picture or black and white picture

- If the picture is black and white, unplug the TV from the AC outlet and replug it after 60 seconds.

- Check that the Color is set to 50 or higher.
- Try different TV channels.

#### **The sound and/or picture is distorted or appears wavy**

- An electric appliance may be affecting the TV. Turn off any appliances that are nearby and move it farther away from the TV.
- Insert the power plug of the TV set into another power outlet.

#### **The sound and picture is blurry or cuts out**

- If using an external antenna, check the direction, position and connection of the antenna.
- Adjust the direction of your antenna or reset or fine tune the channel.

#### **A horizontal or vertical stripe appears on the picture and/or the picture is shaking**

- Check if there is an appliance or electric tool nearby that is causing interference.

#### **The plastic cabinet makes a clicking” type of sound**

- The ‘click’ sound can occur when the temperature of the television changes. This change causes the television cabinet to expand or contract, which makes the sound. This is normal and the TV is OK.

#### **The remote control does not work**

- Confirm that TV still has power and is operational.
- Change the batteries in the remote control.
- Check if the batteries are correctly installed.

**NOTE:** For usage in Mexico , operation of this equipment is subject to the following two conditions : 1 ) it is possible that this device doesn't cause any detrimental interference and 2 ) this device must take any kind of interference, including that which may cause its malfunctioning.

#### **Warning**

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.