



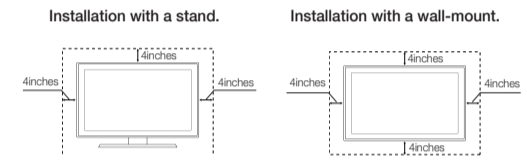
Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance. Product design and specifications may be changed without notice.

### Still image warning

- Avoid displaying still images (such as jpeg picture files) or still image elements (such as TV channel logos, panorama or 4:3 image format, stock or news bars at screen bottom etc.) on the screen. Constant displaying of still pictures can cause ghosting of LED screen, which will affect image quality. To reduce risk of this effect, please follow below recommendations:
- Avoid displaying the same TV channel for long periods.
- Always try to display any image on full screen, use TV set picture format menu for best possible match.
- Reduce brightness and contrast values to minimum required to achieve desired picture quality, exceeded values may speed up the burnout process.
- Frequently use all TV features designed to reduce image retention and screen burnout, refer to proper user manual section for details.

### Securing the Installation Space

- Keep the required distances between the product and other objects (e.g. walls) to ensure proper ventilation.
- Failing to do so may result in fire or a problem with the product due to an increase in the internal temperature of the product.
- When using a stand or wall-mount, use parts provided by Samsung Electronics only.
- If you use parts provided by another manufacturer, it may result in a problem with the product or an injury due to the product falling.
- The appearance may differ depending on the product.
- Be careful when you contact the TV because some parts can be somewhat hot.



### Contact SAMSUNG WORLDWIDE

Country	Customer Care Center	Web Site
MEXICO	01-800-SAMSUNG(726-7864)	www.samsung.com
ARGENTINA	0800-333-3733	www.samsung.com
BRAZIL	0800-124-421 4004-0000	www.samsung.com
CHILE	800-SAMSUNG(726-7864)	www.samsung.com
COLOMBIA	01-8000112112	www.samsung.com
COSTA RICA	0-800-507-7267	www.samsung.com
DOMINICA	1-800-751-2676	www.samsung.com
ECUADOR	1-800-10-7267	www.samsung.com
EL SALVADOR	800-6225	www.samsung.com
GUATEMALA	1-800-299-0013	www.samsung.com
HONDURAS	800-7919267	www.samsung.com
JAMAICA	1-800-234-7267	www.samsung.com
TRINIDAD & TOBAGO	1-800-SAMSUNG(726-7864)	www.samsung.com
VENEZUELA	0-800-100-5303	www.samsung.com
PANAMA	800-7267	www.samsung.com
PERU	0-800-777-08	www.samsung.com
PUERTO RICO	1-800-662-3180	www.samsung.com
TRINIDAD & TOBAGO	1-800-SAMSUNG(726-7864)	www.samsung.com
VENEZUELA	0-800-100-5303	www.samsung.com

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 AV. PRESIDENTE MASARUK #111 INT.701  
 CQL CHARULTEPEC MORALES C.P.11570  
 DELEGACION MIGUEL HIDALGO MEXICO, DISTRITO FEDERAL  
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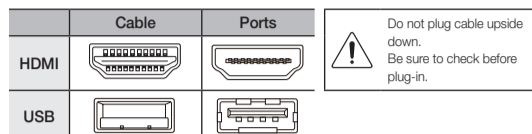
## Getting Started

### Accessories

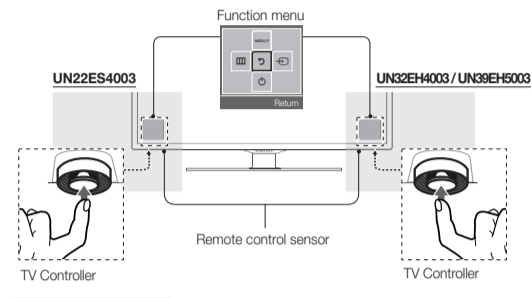
- Remote Control & Batteries (AAA x 2)
- Warranty Card / Safety Guide
- Owner's Instructions
- Wire-Holder Stand
- Power Cord

### Input Cables (Sold Separately)

- HDMI
- HDMI-DVI
- Component
- Composite (AV)
- Coaxial (RF)



### TV Controller (Panel Key)



- Power on**: Turns the TV on by pressing the controller in standby mode.
- Adjusting the volume**: Adjusts the volume by moving the controller from side to side when the power is on.
- Selecting a channel**: Selects a channel by moving the controller up and down when the power is on.
- Using the function menu**: Press the controller when the power is on, then the function menu screen appears. If you press it again, the function menu screen disappears.
- Selecting the Media Play**: Selects the MEDIA P by moving the controller in the function menu screen. The Media Play main screen appears.
- Selecting the MENU (M)**: Selects the MENU (M) by moving the controller in the function menu screen. The OSD(On Screen Display) of your TV's feature appears.
- Selecting the Source List (-C)**: Selects the Source List (-C) by moving the controller in the function menu screen. The Source List screen appears.
- Power Off (O)**: Selects the Power Off (O) to turn the TV off by moving the controller in the function menu screen.

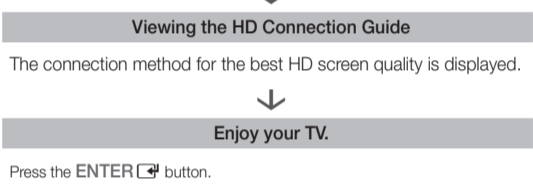
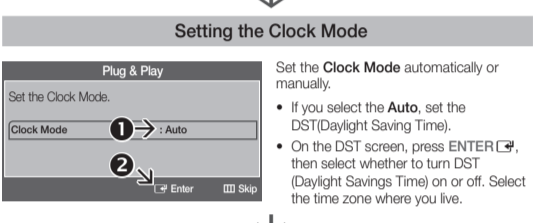
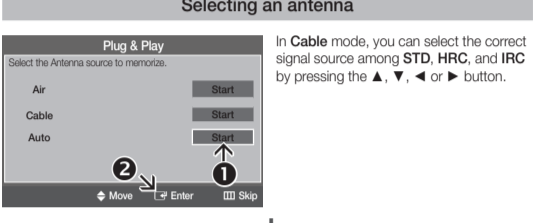
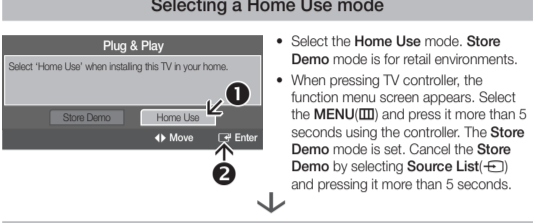
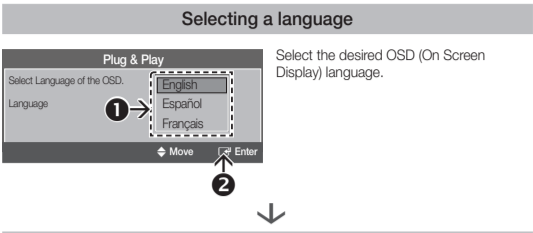
Exits the menu when pressing the controller more than 1 second.

When selecting the function by moving the controller to the up/down/left/right directions, be sure not to press the controller. If you press it first, you cannot operate it to move the up/down/left/right directions.

### Plug & Play (Initial Setup)

When you turn the TV on for the first time, a sequence of on-screen prompts will assist in configuring basic settings. Press the POWER button. **Plug & Play** is available only when the input source is set to TV.

- Connecting the power cord and antenna. (refer to 'Connections')

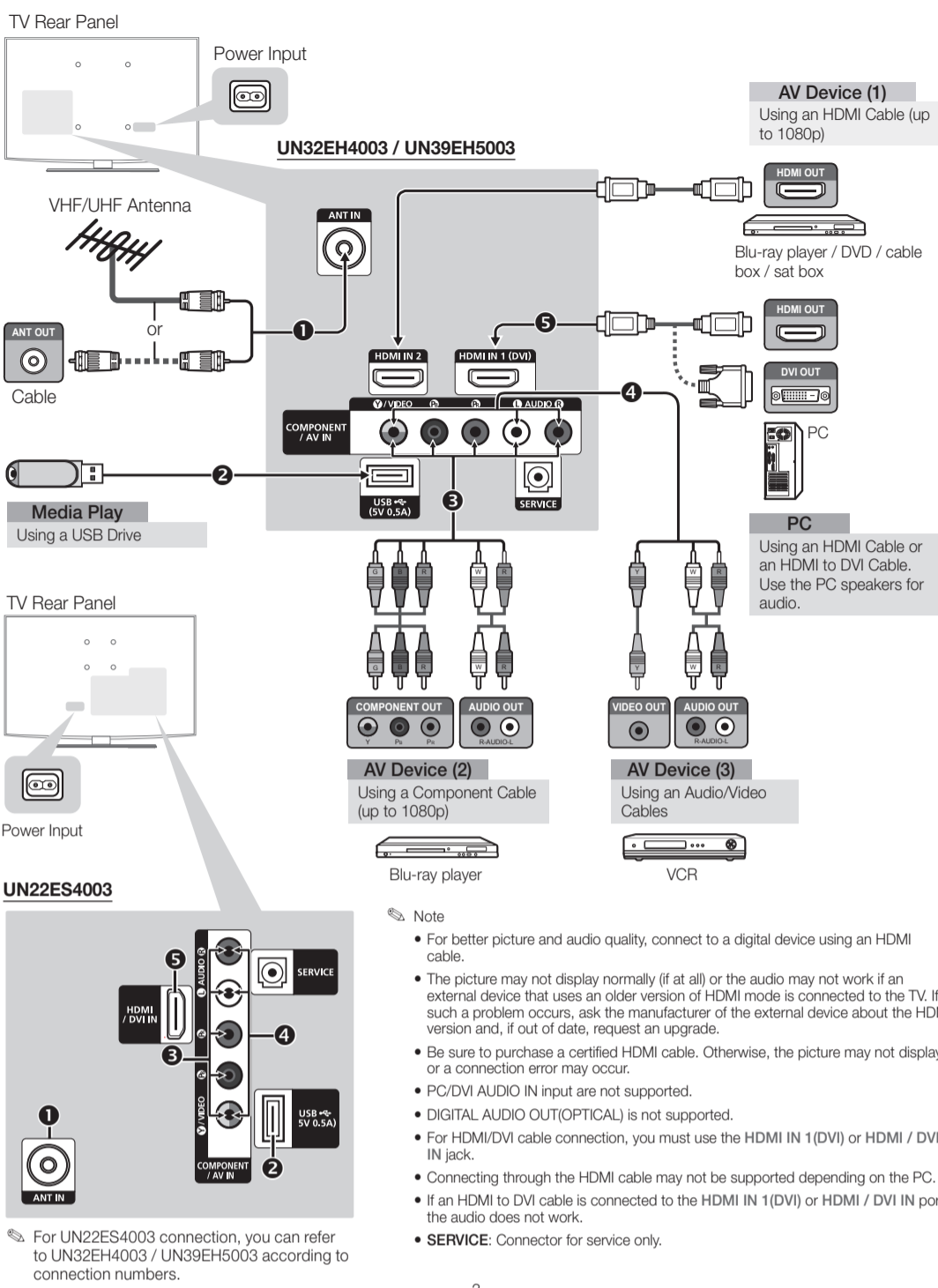


The connection method for the best HD screen quality is displayed.

Enjoy your TV.

Press the ENTER (C) button.

## Connections



For UN22ES4003 connection, you can refer to UN32EH4003 / UN39EH5003 according to connection numbers.

## Changing the Input Source

### Source List

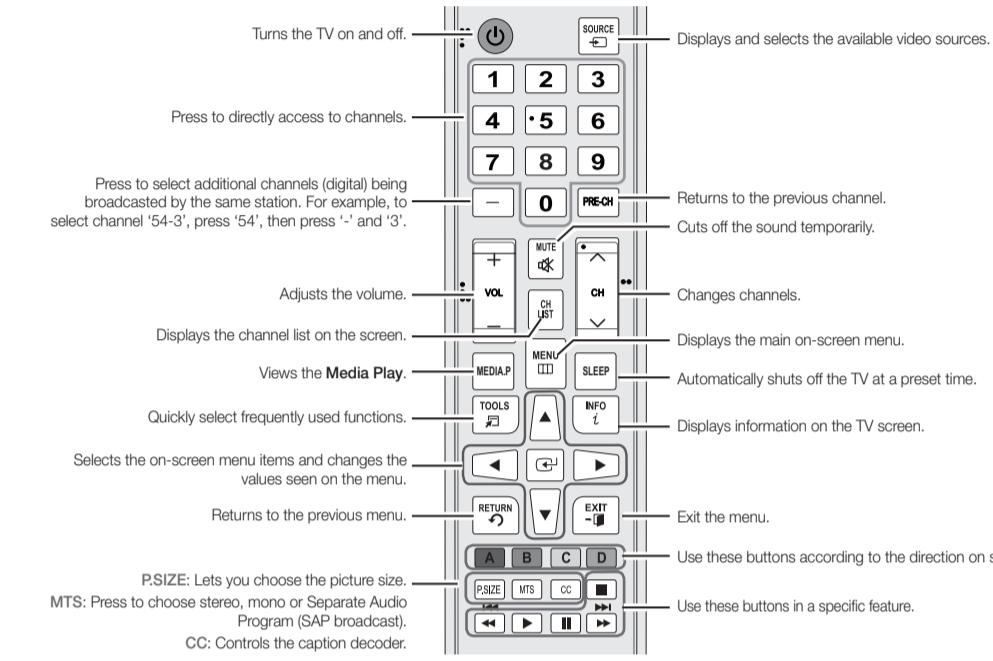
Use to select TV or an external input source such as a DVD player / Blu-ray player / cable box / STB satellite receiver.

- Press the SOURCE button.
- Select a desired external input source.

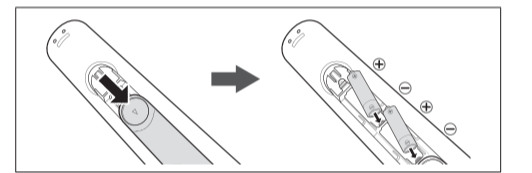
- UN32EH4003 / UN39EH5003**
    - TV / AV / Component / HDMI1/DVI / HDMI2
  - UN22ES4003**
    - TV / AV / Component / HDMI/DVI
- You can only choose external devices that are connected to the TV. In the **Source List**, connected inputs will be highlighted.

## Remote Control

This remote control has Braille points on the Power, Channel, and Volume buttons and can be used by visually impaired persons.



### Installing batteries (Battery size: AAA)



### How to use Edit Name

Edit Name lets you associate a device name to an input source. To access **Edit Name**, press the TOOLS button in **Source List**. The following selections appear under **Edit Name**:

- VCR / DVD / Cable STB / Satellite STB / PVR STB / AV Receiver / Game / Camcorder / PC / DVI PC / DVI / TV / IPTV / Blu-ray / HD DVD / DMA**: Name the device connected to the input jacks to make your input source selection easier.
- When connecting a PC to the HDMI IN 1(DVI) or HDMI / DVI IN port with HDMI cable, you should set the TV to **PC mode** under **Edit Name**.
- When connecting a PC to the HDMI IN (DVI) or HDMI / DVI IN port with HDMI to DVI cable, you should set the TV to **DVI PC mode** under **Edit Name**.
- When connecting an AV devices to the HDMI IN 1(DVI) or HDMI / DVI IN port with HDMI to DVI cable, you should set the TV to **DVI mode** under **Edit Name**.

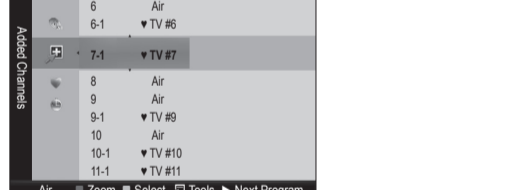
### Information

You can see detailed information about the connected external device.

## Channel Menu

### Seeing Channels

Add, delete or set Favorite channels and use the program guide for digital broadcasts. Select a channel in the **All Channels**, **Added Channels**, **Favorite** or **Programmed** screen by pressing the **▲ / ▼** buttons, and pressing the **ENTER** button. Then you can watch the selected channel.



- All Channels**: Shows all currently available channels.
- Added Channels**: Shows all added channels.
- Favorite**: Shows all favorite channels.
- Programmed**: Shows all currently reserved programs.
- Using the remote control buttons with the **Channel List**
  - Green (Zoom)**: Enlarges or shrinks a channel number.
  - Yellow (Select)**: Selects multiple channel lists. Select desired channels and press the Yellow button to set all the selected channels at the same time. The **✓** mark appears to the left of the selected channels.
  - Tools**: Displays the Channel List option menu. (The Options menus may differ depending on the situation.)

Icons	Operations
✓	A channel selected.
✓	A channel set as a favorite.
○	A reserved program.
□	A program currently being broadcast.

### Memorizing channels

**Antenna (Air / Cable)**

Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV (i.e. an Air or a Cable system).

- Auto Program**
  - When selecting the Cable TV system: Selects the cable system. **STD, HRC** and **IRC** identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area. At this point, the signal source has been selected.
  - After all the available channels are stored, it starts to remove scrambled channels. The **Auto program** menu then reappears.
  - Press the **ENTER** button to stop the channel store during **Auto Program**.

### How to Stop Auto Programming

- Press the **ENTER** button.
- A message will ask **Stop Auto Program?** Select **Yes** by pressing the **◀** or **▶** button.
- Press the **ENTER** button.

### Other Features

**Clear Scrambled Channel**

This function filters out scrambled channels after **Auto Program** is completed. This process may take up to 20-30 minutes.

Press the **ENTER** button to stop the **Clear Scrambled Channel**.

This function is only available in **Cable mode**.

### Channel List

**Channel List Option Menu**

Set each channel using the **Channel List** menu options. Option menu items may differ depending on the channel status.

- Add / Delete**: Delete or add a channel to display the channels you want.
  - All deleted channels will be shown on the **All Channels** menu.
  - A gray-colored channel indicates the channel has been deleted.
  - The **Add** menu only appears for deleted channels.
  - Delete a channel from the **Added Channels** or **Favorite** menu in the same manner.
- Add to Favorite / Delete from Favorite**: Set channels you watch frequently as Favorites.
- Timer Viewing**: You can set a desired channel to be displayed automatically at the set time; even when you are watching another channel. Set the current time first to use this function.
  - Only memorized channels can be reserved.
  - Reserved programs will be displayed in the **Programmed** menu.
  - When a digital channel is selected, press the **(Next Program)** button to view the digital program. If you select the **(Schedule)** button on the next program, you can set **Timer Viewing** directly.

**Channel Name Edit** (analog channels only): Assign your own channel name.

- Select All**: Select all the channels in the channel list.
- Deselect All**: Deselect all the selected channels.
  - You can only select **Deselect All** when one or more channels are selected.
- Auto Program**: Scans for a channel automatically and stores in the TV.
- Programmed** (in Channel List)
  - You can view, modify or delete a show you have reserved to watch.
  - Change Info**: Change a show you have reserved to watch.
  - Cancel Schedules**: Cancel a show you have reserved to watch.
  - Information**: Display a show you have reserved to watch. (You can also change the reservation information.)
  - Select All / Deselect All**: You can select or deselect all channels in the channel list.

### Channel Mode

Change the channel mode directly between **Added Channels** and **Favorite Channels**.

The **Favorite Channels** is enabled only when you set **Add to Favorite**.

### Fine Tune

(analog channels only)

If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, fine tune the channel manually.

- Fine tuned channels that have been saved are marked with an asterisk "\*" on the right-hand side of the channel number in the channel banner.
- To reset the fine-tuning, select **Reset**.

## Picture Menu

### Mode

- Select your preferred picture type.
- When connecting a PC, you can only select **Entertain** and **Standard**.
  - Dynamic**: Suitable for a bright room.
  - Standard**: Suitable for a normal environment.
  - Movie**: Suitable for watching movies in a dark room.
  - Entertain**: Suitable for watching movies and games.
    - Only available when connecting a PC.

### Backlight / Contrast / Brightness / Sharpness / Color / Tint (G/R)

Your television has several setting options for picture quality control.

When connecting a PC, you can only make changes to **Backlight, Contrast, Brightness and Sharpness**

**Advanced Settings** (available in **Standard / Movie** mode)

Compared to previous models, new Samsung TVs have a more precise picture.

- When connecting a PC, you can only make changes to **Gamma** and **White Balance**.
- Color Space (Auto / Native)**: Adjusts the range of colors available to create the image.
- White Balance**: Adjusts the color temperature for a more natural picture.
  - R-Offset / G-Offset / B-Offset**: Adjusts each color's (red, green, blue) darkness.
  - R-Gain / G-Gain / B-Gain**: Adjusts each color's (red, green, blue) brightness.
- Reset**: Resets the **White Balance** to it's default settings.
- Gamma**: Adjusts the primary color intensity.
- Dynamic Contrast (Off / Low / Medium / High)**: Adjusts the screen contrast.
- Black Tone (Off / Dark / Darker / Darkest)**: Select the black level to adjust the screen depth.
- Flesh Tone**: Emphasize pink "flesh tone".
- Motion Lighting (Off / On)**: Reduce power consumption by brightness control adapted motion.
  - Available in **Standard** mode only.

### Picture Options

- When connecting a PC, you can only make changes to the **Color Tone, Size and HDMI Black Level**.
- Color Tone (Cool / Standard / Warm1 / Warm2)**
  - Warm1** or **Warm2** will be deactivated when the picture mode is **Dynamic**.
- Size**: Your cable box/satellite receiver may have its own set of screen sizes as well. However, we highly recommend you use 16:9 mode most of the time.
  - 16:9**: Sets the picture to 16:9 wide mode.
  - Zoom1**: Use for moderate magnification.
  - Zoom2**: Use for a stronger magnification.
  - Wide Fit**: Enlarges the aspect ratio of the picture to fit the entire screen.
  - 4:3**: Sets the picture to basic (4:3) mode.
    - Do not watch in 4:3 format for a long time. Traces of borders displayed on the left, right and center of the screen may cause image retention (screen burn) which are not covered by the warranty.
- Screen Fit (DTV)**: Displays the full image without any cut-off when HDMI (720p / 1080i / 1080p) or Component (1080i / 1080p) signals are inputted.
  - HD (High Definition)**: 16:9 - 1080i/1080p (1920x1080), 720p (1280x720)
  - Settings can be adjusted and stored for each external device you have connected to an input on the TV.
  - Picture Sizes available by Input Source:

Input Source	Picture Size
ATV, AV, Component (480i, 480p)	16:9, Zoom1, Zoom2, 4:3
DTV (1080i, 1080p), Component (1080i, 1080p), HDMI (720p, 1080i, 1080p)	16:9, Wide Fit, 4:3, Screen Fit

- Digital Noise Filter (Off / Low / Medium / High / Auto)**: If the broadcast signal received by your TV is weak, you can activate the **Digital Noise Filter** feature to reduce any static and ghosting that may appear on the screen.
  - When the signal is weak, try other options until the best picture is displayed.
- HDMI Black Level (Normal / Low)**: Selects the black level on the screen to adjust the screen depth.
  - Available only in **HDMI** mode (RGB signals).
- Film Mode (Off / Auto)**: Sets the TV to automatically sense and process film signals from all sources and adjusts the picture for optimum quality.
  - Available in **ATV, DTV(Interface), AV, COMPONENT** (480i / 1080i) and **HDMI** (480i / 1080i).
- LED Motion Plus (Off / On)**: Removes drag from fast scenes with a lot of movement to provide a clear picture.

### Picture Reset

Resets your current picture mode to its default settings.

- Reset Picture Mode**: Returns all picture values in the currently selected mode to the default settings.

## Sound Menu

### Mode

- Standard**: Selects the normal sound mode.
  - Music**: Emphasizes music over voices.
  - Clear Voice**: Provides the best sound for movies.
  - Amplify**: Increase the intensity of high-frequency sounds to allow a better listening experience for the hearing impaired.
- Equalizer** (standard sound mode only)
- Balance L/R**: Adjusts the balance between the right and left speakers.
  - 100Hz / 300Hz / 1KHz / 3KHz / 10KHz** (Bandwidth Adjustment): Adjusts the level of specific bandwidth frequencies.
  - Reset**: Resets the equalizer to its default settings.

### SRS TruSurround HD

(standard sound mode only)

SRS TruSurround HD is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.

### Preferred Language

(digital channels only)

Digital-TV broadcasts are capable of simultaneous transmission of many audio tracks (for example, simultaneous translations of the program into foreign languages).

- You can only select a language from among the ones being broadcasted.

### Multi-Track Sound (MTS)

- Mono**: Choose for channels that are broadcasting in mono or if you are having difficulty receiving a stereo signal.
- Stereo**: Choose for channels that are broadcasting in stereo.
- SAP**: Choose to listen to the Separate Audio Program, which is usually a foreign-language translation.
  - Depending on the program being broadcast, you can listen to **Mono, Stereo** or **SAP**.

### Auto Volume

Because each broadcasting station has its own signal conditions, the volume may fluctuate each time channel is changed. This feature lets 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.

### Sound Reset

**Reset All**: Resets all sound settings to the factory defaults.

## Setup Menu

### Setting the Time

- Time**
  - The current time will appear every time you press the **INFO** button.
  - Clock**: Setting the clock is for using various timer features of the TV.
    - If you disconnect the power cord, you have to set the clock again.
  - Clock Mode**: Set the current time manually or automatically.
  - Clock Set**: Set the **Month, Day, Hour, Minute** and **am/pm**.
    - Available only when **Clock Mode** is set to **Manual**.
  - Time Zone**: Select your time zone.
  - DST (Daylight Saving Time)**: Switches the DST (Daylight Saving Time) function on or off.
    - DST and Time Zone** function is only available when the **Clock Mode** is set to **Auto**.
  - Sleep Timer**
    - Automatically shuts off the TV after a preset period of time. (30, 60, 90, 120, 150 and 180 minutes).
    - To cancel the **Sleep Timer**, select **Off**.

### Timer 1 / Timer 2 / Timer 3

- Three different on / off timer settings can be made. You must set the clock first.
  - On Time / Off Time**: Set the hour, minute, am/pm and Activate / Inactivate. (To activate the timer with the setting you have chosen, set to **Activate**.)
  - Volume**: Set the desired volume level.
  - Contents**: When the **On Time** is activated, you can turn on a specific channel or play back contents such as photo or audio files.
    - TV-USB**: Select **TV** or **USB**. (Make sure that a USB device is connected to your TV.)
    - Antenna**: Displays the current antenna source.
    - Channel**: Select the desired channel.
    - Music/Photo**: Select the folder containing MP3/JPEG files on the USB device.
      - The maximum number of files, including sub folders, in one folder of USB storage device is 2000.
      - The media may not be playing smoothly when using the device lower than USB 2.0.
  - Repeat**: Select **Once, Everyday, Mon-Fri, Mon-Sat, Sat-Sun** or **Manual** to set at your convenience. If you select **Manual**, you can set up the day you want to activate the timer.

### Other Features

- Program Rating Lock**: The **Program Rating Lock** feature automatically locks out programs that are deemed inappropriate for children. The user must enter a PIN (personal identification number) before any of the Program Rating Lock restrictions are set up or changed.
  - Program Rating Lock** is not available in **HDMI** or **Component** mode.
  - The default PIN number of a new TV set is "0-0-0-0".

