Picture Menu

● **Backlight:** Some models have a **Dynamic Backlight Control** setting that you can turn Off and set to High, Middle or Low. Some models have a **Local Dimming** setting is available that will enable the TV to automatically adjust the backlight by sections according to the changes in image and increase the contrast. The **Backlight Level** setting enables you to adjust how bright you want images to appear, lower settings create darker images. In addition, an **Automatic Light Sensor** setting is available that will enable the TV to automatically adjust the picture settings according to the amount of ambient light in your room. The **Minimum Backlight** setting enables you to adjust the lower point of the dynamic backlight adjustment scope. This is a money-saving feature because it reduces power consumption.

Picture
Set the overall brightness of the screen.

Backlight

Picture Mode: Energy Saving
● Contrast: 50
● Brightness: 50
● Color: 55
● Tint: 0
● Sharpness: 10
Aspect Ratio: wide

Advanced Picture Options

● **Picture Mode:** If you'd like to configure the settings for your picture, then there are seven types of picture modes available: **Vivid**, **Standard**, **Energy Saving**, **Theater**, **Game**, **Sport** and **Calibrated**.

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

● **Contrast:** Adjust the Contrast level to increase or decrease how bright images appear.

● **Brightness:** Adjust the Brightness level to generate lighter or darker images.

● **Color:** Adjust the color intensity of the picture for a more vibrant image.

● **Tint:** Adjust the colors from a green to magenta tint to view the natural skin tones of people on the screen.

● **Sharpness:** Adjust how sharp or soft edges of images appear.

● **Aspect Ratio:** Adjust the Aspect Ratio to stretch or zoom in on your picture. You can choose from the following settings: **Auto**, **Normal**, **Zoom**, **Wide**, **Direct**, **Dot-By-Dot**, **Panoramic** or **Cinema**.

● **Advanced Picture Options:** Adjust advanced picture settings based on your viewing preference.

    • **Overscan:** Change the video size settings to slightly crop the edges of the displayed image.

    • **Color Temperature:** Select a preset color temperature. Adjust how warm(red) or cool(blue) the white areas of an image appears.

    • **Motion Enhancement:** This setting minimizes afterimages that are left on the screen when viewing fast-moving objects. You can adjust it from Smooth, Standard, Clear, Film,Custom or Off. A Smooth setting will produce a smoother picture whereas a Clear setting will result in a picture that has less judder (shaking).

    • **Judder Reduction:** To enhance picture smooth, please try to reduce picture judder, but it may cause picture blur.

    • **Blur Reduction:** To avoid missing picture details, please try to reduce blur, but it may cause picture fluter.

    ☑ **NOTE**

    • Some models don't support the function of Motion Enhancement, Judder Reduction or Blur Reduction.

    • **Digital Noise Reduction:** Improve how clear the picture appears by reducing noise.

    • **HDMI Dynamic Range:** Adjust the HDMI signal range to be more suitable for the content.

    • **Active Contrast:** Automatically darken dark areas and lighten light areas of images to see more details.

    • **Color Space:** Change the range of colors the TV displays.

    ☑ **NOTE**

    • Some models don't support this function.

● **Expert Settings:**

    • **Color Tuner:** Adjust the Hue, Saturation and Brightness of color settings.

    • **White Balance:** Adjust the intensity of red, green and blue lights to view the true colors of all images in the picture.

    • **Gamma Adjustment:** Adjust the Gamma to choose how the TV will respond to the content grayscale. In a dark room choose a Higher number like 2. In a brighter area select a lower number like 0. In general, 1 is normally recommend.

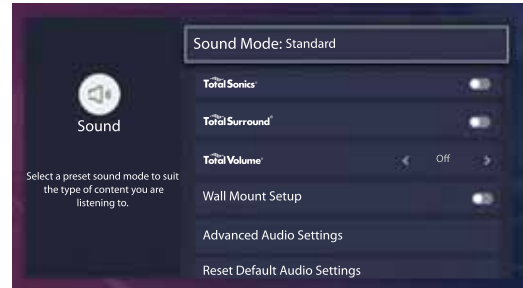   ☑ **NOTE**

    • Some models don't support this function.

- **RGB Only Mode:** View images based on default settings or choose the color red,blue or green.

○ **Apply Picture Settings:** Adjust current picture mode to apply to all sources or just current source.

○ **Reset Picture Settings:** Reset all the picture settings in the current picture mode to the factory default values.

Sound Menu

○ **Sound Mode:** Select a preset sound mode to suit the type of content you are listening to: **Standard**, **Theater**, **Music**, **Speech** and **Late Night**.

Set the sound effects to suit your preference.

Configure your audio settings for your sound preferences. Once you choose the mode, you can adjust the audio based on the following settings:

Sound Mode: Standard

Total Sonics

Total Surround

Total Volume　　　Off

Wall Mount Setup

Advanced Audio Settings

Reset Default Audio Settings

Sound

Select a preset sound mode to suit the type of content you are listening to.

○ **TotalSonics™ Total Sonics:** Optimizes overall sound quality by increasing bass, making dialog clear and natural, and widening the sound field.

○ **TotalSurround™ Total Surround:** Provides surround sound experience with psychoacoustic processing to place sounds beside, behind, and above the viewer. For best results use with Total Sonics.

○ **TotalVolume™ Total Volume:** Maintains consistent loudness levels from wide dynamic range programs, too-loud commercials, and channel or input changes.

○ **Wall Mount setup:** Automatically optimize the sound based on the position of the TV.

○ **Advanced Audio 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.

- **TV Speaker:** Disable the TV speaker when you are using a sound bar, ARC or any other external audio amplifier.

- **Digital Audio Out:** Select the digital audio output format that best suits the audio device type. For example, choose **RAW** (which is uncompressed audio in RAW form) if you have 5.1 Channel Surround Sound Speaker set up. Choose **PCM** if you have an amplifier that does not support Dolby Digital technology.

- **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.

- **Audio Out:** Change the way audio is sent through the type of device that's connected to your TV Audio Out port.

○ **Reset Default Audio Settings:** Reset all of the audio settings in current audio mode to the factory default values.

Network Menu

- **Network Configuration:** Set up the network to gain full access of Smart TV features.

  When the Connection Type is **Ethernet**, means you choose a wired network connection to access the Internet.

  - **IP Settings:** Configure the IP setting for your network connection.

  When the Connection Type is **Wireless**, means you choose a wireless network connection to access the Internet.

  - **Refresh:** Refresh wireless network.
  - **Add:** You can add wireless network.
  - **Advanced Settings:** Configure the advanced wireless network settings for the TV.

- **Connection Test:** Start a network connection test.
- **Network Information:** View information about your network connection.
- **Wake on Wireless Network:** Using a wireless connection, turn on your TV with a screencast feature inside an app.
- **Wake on LAN:** Using an Ethernet connection, turn on your TV with a screencast feature inside an app.
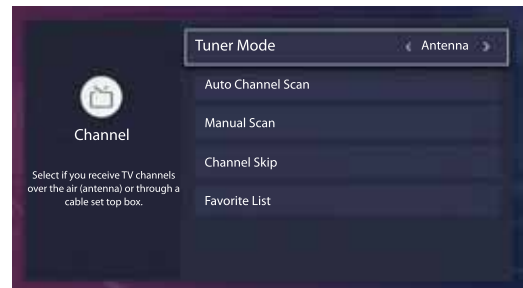- **Bluetooth:** Connect to the network using Bluetooth technology.

  ☑ **NOTE**
  - Some models don't support this function.
  - A Bluetooth device may hum or malfunction, if the problem persists, try connecting the device using the digital optical port or the HDMI (ARC) port.
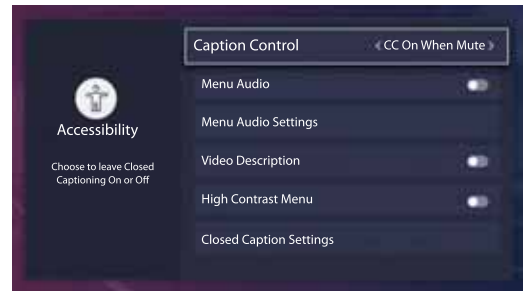
Channel Menu

- **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 to view programming from your TV source.
- **Manual Scan:** Type in a channel to add it manually to your TV.
- **Channel Skip:** Skip a channel that your TV picked up during a previous channel scan search.
- **Favorite List:** Quickly access your most-watched channels by adding them to the Favorite list.

Accessibility

- **Caption Control:** Choose to leave Closed Captioning On or Off.
- **Menu Audio:** Choose to leave the Audio Menu Prompts On or Off.
- **Menu Audio Settings:** Adjust Menu Audio settings to your preference.
  - **Volume:** Set the Menu Audio volume.
  - **Language:** Set the Menu Audio language.
  - **Rate:** Set the Menu Audio speed.
  - **Pitch:** Set the Menu Audio pitch.
  - **Focus Menu Audio:** Turn down the background volume when Menu Audio is playing.
- **Video Description:** Choose to leave the Video description feature On or Off.
- **High Contrast Menu:** Choose to leave the high contrast menu On or Off.
- **Closed Caption Settings:** Adjust Closed Caption settings to your preference.
  - **Analog Caption:** Select an Analog Caption setting from Off, CC1-CC4, Text 1-TEXT4.

    CC1-CC4: Closed captioning appears in a small banner across the bottom of the screen. CC1 is usually the "printed" version of the audio. CC2-CC4 display content are provided by the broadcaster.

    Text1-Text4: Closed captioning that covers half or all of the screen. Text1-Text4 display content are provided by the broadcaster.

    Off: To turn off the Analog Caption.
  - **Digital Caption:** Select a Digital Caption setting: Off, CS1-CS6.
  - **Digital CC Settings:** There are two caption styles. One is the **Automatic** function set as the broadcaster, while the other is the **Custom** style where you can adjust the **Size**, **Font**, **Text Color**, **Text Opacity**, **Background Color** etc.

System Menu

- **Parental Controls:** Turn On Parental Controls to block children from being able to view certain programs. The password is required to be set when you use this function for the first time. For more information about Parental Controls, See *Parental Controls on page 24*.
- **Language:** Adjust the default Language settings for the TV.
- **Keyboard Layout:** Change TV keyboard layout language.
- **Location:** Choose the location from where you will watch your TV.
- **Time And Date:** Set the current time based on your location.
  - **Time Zone:** Select your time zone.
  - **Time Format:** Set the time to display in a 12 or 24-hour format.
  - **Daylight Savings:** Select whether to apply Daylight Savings Time to the TV.
  - **Date/Time:** Set the Date and Time.
- **Timer settings:** Adjust the timer settings to suit your preference.
  - **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.
  - **Power On Timer:** Set the clock for the time you want the TV to turn On automatically.
  - **Power Off Timer:** Set the clock for the time you want the TV to turn Off automatically.
  - **Menu Timeout:** Set the amount of time that you'd like for the menu to display : 10s, 20s , 30s , 60s or Off.
- **CEC Function:** Configure how to control CEC-enabled devices with your TV remote.
  - **CEC Control:** Allow CEC-enabled devices that are connected to HDMI ports to control the TV.
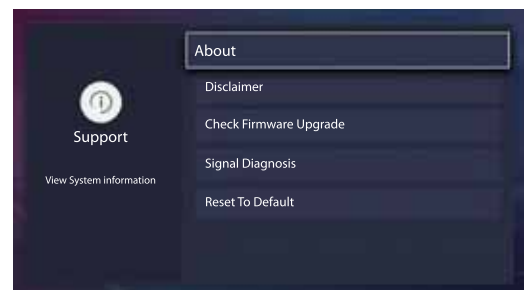
- **Device Auto Power Off:** Allow CEC-enabled devices to turn off with the TV.
- **TV Auto Power On:** Allow the TV to turn On with CEC-enabled devices.
- **Audio Receiver:** Allow the Audio Receiver to send audio over an HDMI cable and back to or from your TV.
- **CEC Device Lists:** View a list of all CEC-enabled devices.
- **Device Connect:** Allow connected devices to the HDMI ports to communicate back and forth with the TV.

☑ **NOTES**

- HDMI cables must be used to connect HDMI CEC-compatible devices to your TV.
- The HDMI CEC feature of the connected device must be turned on.
- If you connect an HDMI device that is not HDMI CEC-compatible, all the HDMI-CEC Control features do not work.
- Depending on the connected HDMI device, the HDMI-CEC Control feature may not work.

- **HDMI 2.0 Format:** Match the connected device output format. Select Enhanced for devices of 4K, 60Hz, 4:4:4 4:2:2 or 4:2:0, 10 bit and above.

- **TV Name:** Choose a name for your TV. The name will be shown to devices that are available for sharing data.

- **Application Settings:** Set settings for apps on your TV.

  - **Anyview Stream:** Share video, music or other content from compatible device on your TV screen.
  - **Netflix:** Remove this TV from your Netflix account. Please contact Netflix if you want to stop being billed for your service.
  - **VUDU:** Remove this TV from your VUDU account. Please contact VUDU if you want to stop being billed for your service.

- **Advanced Settings:** Access the Advanced Settings menu.

  - **Power LED:** Set the power indicator light to stay On or Off when standby mode.
  - **Audio Only:** Turn off the screen display to save energy. Press any button except the **[⏻]** button, **Volume [+/-]** buttons and **[🔇]** button to turn the picture back on.
  - **Input Labels:** Edit the input labels.
  - **Default Live TV Source:** Set up a source as the default source, which is launched with the Live TV button.
  - **Screensaver:** Select to show an active screensaver when the TV is idle.
  - **Notifications:** Allow pop-up notifications to appear for useful information and events that occur with your TV.
  - **Send Diagnostics and Usage:** Send TV running errors and usage statistics to the server to improve service quality (No personal information is collected).
  - **Use Mode:** Set the TV to use in Home or Store Mode (Some models have a Store Mode with 4K Video).

- **Setup Wizard:** Use the Setup Wizard for instructions to help you set up your TV.

Support Menu

- **About:** View system information.
- **Disclaimer:** Click to read the Disclaimer details.
- **Check Firmware Upgrade:** Check to ensure that your TV has received the latest firmware.
- **Signal Diagnosis:** Check diagnostic information for current input source.
- **Reset To Default:** Reset your TV back to the factory default.

Parental Controls

The Parental Controls setting allows you to block content that is not appropriate for children to watch. You can do this by creating a 4-digit password.

Turning Parental Controls On

1. Press the **[🖃]** button on your remote.
2. Press the **[v]** button on the D-pad to select **Settings**, press **[OK]** button to enter the Settings menu.
3. Select **System** > **Parental Controls**.
4. Press the **[OK]** button on your remote, a Create PIN window displays. Using the numerical keypad on the window, create the password.
5. Go to **Locks**.
6. Press the **[OK]** button to turn the locks On.

You will see the other Parental Control settings change from a greyed out state and become highlighted. When this occurs, begin adding other settings to the **Block Time**, **Channel Block**, **Program Block**, **Input Block, App Restriction, Change PIN** or **Reset Parental Control Defaults** features.

- **Block Time:** Block certain channels and programs during certain periods of time.
- **Channel Block:** Block programs by channels when you turn on the Parental Controls feature.
- **Program Block:** Certain programs are blocked when you activate the parental control settings.
- **Input Block:** Block content from devices that are connected to certain TV ports.
- **App Restriction:** Block specific apps when Parental Controls is on.
- **Change PIN:** Change your PIN that you use to access Parental Controls. If you want to change your parental control password, first enter the new password then enter the same password again.

  ### ☑ NOTE
  - If you forget your password, call the **Consumer Electronics Care Center**.
- **Reset Parental Control Defaults:** Reset Parental Controls back to the factory setting.

Description of US TV Ratings

Content	Defined as
A	All
D	Suggestive dialog
L	Coarse or crude language
S	Sexual situations
V	Violence
FV	Fantasy Violence

Description of Age-based Ratings

Age	Defined as
TV-Y	All children
TV-Y7	Directed to older children
TV-G	General audience
TV-PG	Parental Guidance Suggested
TV-14	Parents strongly cautioned
TV-MA	Mature Audiences Only

US Movie Ratings