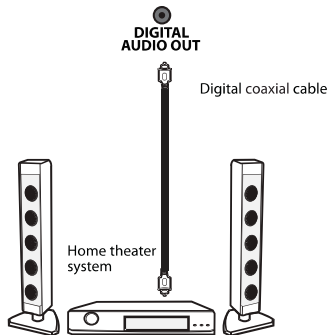


Connecting a home theater system

Connecting using a digital audio cable

To connect using a digital coaxial cable:

- 1 Make sure that your TV's power cord is unplugged and the home theater system is turned off.
- 2 Connect one end of a digital coaxial audio cable (not included) to the **DIGITAL AUDIO OUT** jack on the back of the TV.



- 3 Connect the other end of the audio cable to the digital coaxial input jack on the home theater system.


To play TV sound through a home theater system:

- 1 Turn on the TV and select a program to watch.
- 2 Turn on the home theater system and select the TV sound source, then adjust the volume to a comfortable level.

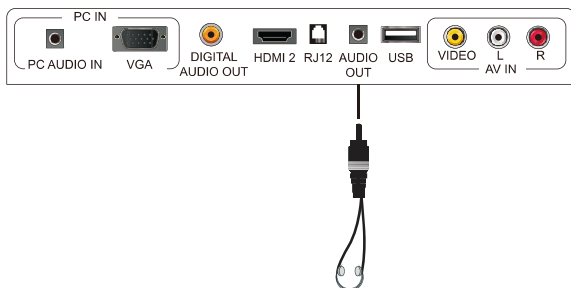
Connecting headphones

Warning: When using headphones, adjust the headphone volume to avoid excessively loud volume which can damage your hearing.

To connect headphones:

- Plug the headphones (not included) into the  (headphone) jack on the back of the TV.

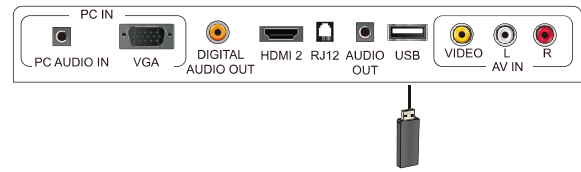
Note: The TV sound automatically mutes when headphones are connected.



Connecting devices with USB interface

Plug the USB stick into USB port on the side of TV.



1. The USB detect message will pop out when you plug in USB stick into TV. Select "OK" to review content on USB.
2. Or you can press INPUT button on the remote control or on the TV and select DMP in source list.



Understanding the basics

Turning your TV on or off

To turn your TV on or off (standby mode):



- 1 Plug the power cord into an AC power outlet.
- 2 Press  (power). Your TV turns on.
- 3 Press  again to turn off your TV. When you turn off your TV, it goes into standby mode.

Warning: When your TV is in standby mode, it is still receiving power. To completely disconnect power, unplug the power cord.

Note: If your TV does not receive an input signal for several minutes, it automatically goes into standby mode.

Selecting the video input source



To select the video input source:

- 1 Turn on your TV, then press **INPUT** on the remote control or on the TV. The **INPUT SOURCE** menu opens.
- 2 Press  or  to highlight the video source you want, then press **ENTER**. Options include **TV, Video, Component, PC (computer), HDMI, DMP**.



Selecting a channel

Tip: If you are using a cable or satellite box, use the remote control that came with that device to change channels.

To select a channel:

- Press **CH**  / **CH**  to go to the next or previous channel.
- Press the number buttons to enter the channel number you want, then wait for the channel to change, or press **ENTER** to change the channel immediately.
 - To select a digital channel, press the number buttons to select the main digital channel, then press the dash(-) button, then the number buttons again to select the sub-channel. Wait for the channel to change or press **ENTER** to change the channel.



Note: Button presses must be within three seconds of each other.

- Press **LAST** to go to the last channel viewed.
- Press **GUIDE** to display a list of memorized channels, press  or  to select the channel you want from the list, then press **ENTER** to go to that channel.

Note: If the list has more than one page, press  or  to scroll through the pages.

Adjusting the volume

To adjust the volume:

- Press **VOL**  / **VOL**  to increase or decrease the volume.
- Press **MUTE** to temporarily turn off all sound. Press **MUTE** again to restore the sound.

Displaying program information

To display program information:

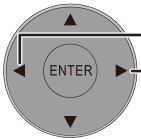
- Press **INFO** to show an information banner. The information banner shows current program information such as channel number, video input source, and resolution.
 - **Digital signal information**—Displays channel number, station name, channel label (if preset), broadcast program name, signal type, audio information, resolution, and current program start and end times when watching a digital channel.
 - **Analog signal information**—Displays channel number, channel label (if preset), signal type, audio information, and resolution when watching an analog channel.
- Press **GUIDE** to show the digital program guide, which may show a list of available programs, program times, and program summaries, depending on the information provided by the broadcaster.

① Picture	Picture Mode	Lets you enable one of five preset viewing options optimized for different viewing conditions.
	Contrast	Lets you adjust the level of picture contrast. Increasing the contrast adds more light to the white areas of the picture.
	Brightness	Lets you adjust the level of brightness on the screen. Increasing brightness can add more light to dark areas of the picture.
	Backlight	Lets you control panel overall brightness and background.
	Saturation	Lets you adjust the level of color intensity.
	Hue	Adjusts the color balance of the picture. Use this control to make skin tone look more natural.
	Sharpness	Lets you adjust the focus of the picture. Increase sharpness for a clearer picture, or decrease sharpness for a smoother picture.
	Color Temperature	Lets you select one of three preset color temperature settings: Cool , Normal or Warm .

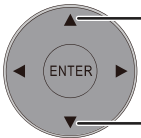
Navigating the menus



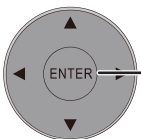
Press to display the Main menu.



Press to select menus, to adjust selected items, or move on-screen cursor left or right.



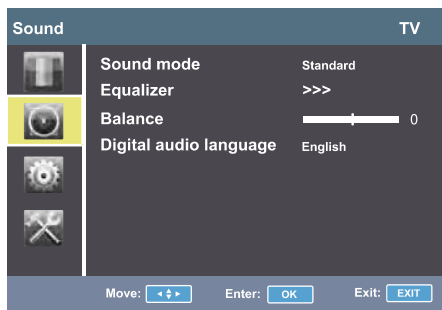
Press to select the menu items.



Press to confirm your selection or enter a sub-menu.

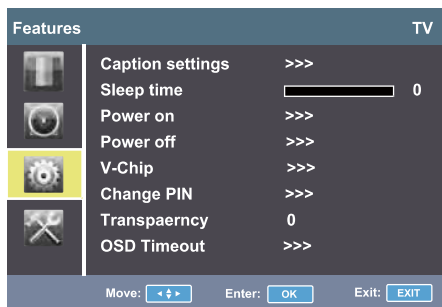


Press to close the menu.



②

② Sound	Sound mode	Lets you select one of preset sound mode or customized sound effective by yourself.
	Equalizer	Lets you select the audio frequency you want to adjust and change its value.
	Balance	Lets you adjust the balance between the left and right speakers.
	Digital audio language	Lets you select the language track you prefer for viewing digital TV programs. Available options depend on your digital TV provider.

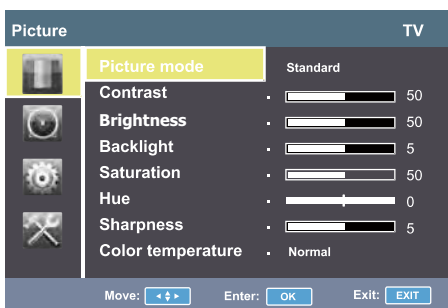


③

③ Features	Caption settings	Lets you configure the settings for closed caption in TV programs.
	Sleep time	Lets you select sleep timer among 0 to 180 minutes.
	Power on	Lets you set the TV on time of every day.

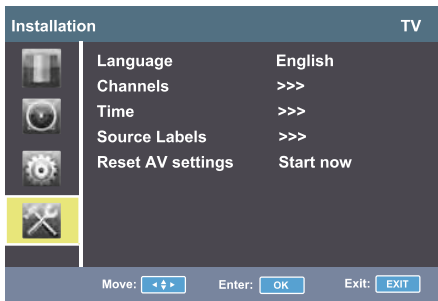
On-screen menu overview

Use the on-screen menu to configure the various operational settings of your TV. To access the menu, press **MENU**. The menus and their corresponding functions are described in the following table:

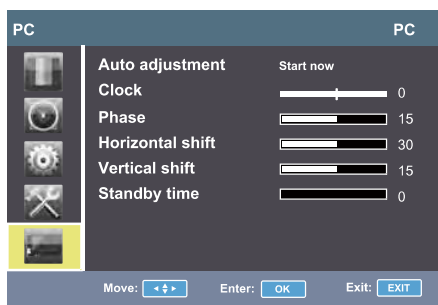


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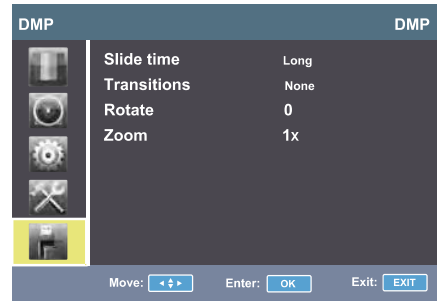
③ Features	Power off	Lets you set the TV off time every day.
	V-Chip	Lets you select certain programs to be blocked.
	Transparency	Lets you adjust Menu transparency.
	OSD Timeout	Set display time of Menu.



④ Installation	Language	Lets you select the lanugage for the On-Screen Display. Choose from English, French, or Spanish.
	Channels	Lets you select RF signal source for your TV. And lets you initiate an automatic channel scan to search the available channels on your TV.
	Time	Lets you configure the system clock,time zone settings and daylight saving.
	Source Labels	Lets you name each input.
	Reset AV settings	Change setting back to default. (picture and sound only)



⑤ PC	Auto adjustment	Adjust the position of image on screen automatically.
	Clock	Adjust the clock used to synchronizing the image.
	Phase	Adjust the phase of the clock used for synchronizing the image.
	Horizontal shift	Adjust the horizontal position of the image.
	Vertical shift	Adjust the vertical position of the image.
	Standby time	Adjust the off time when there is no signal input.



⑥ DMP	Slide time	Lets you select the photo slide time: Long, Medium or Shot.
	Transitions	Lets you select photo transitions way from current picture to next picture.
	Rotate	Lets you rotate picture.
	Zoom	Lets you zoom in/out picture.

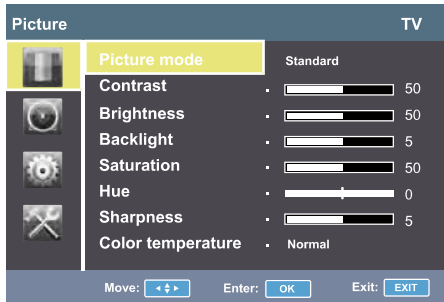
DMP Function Introduction

Signal mode	support format
Pcture	JPEG
Music	MP3

Adjusting the picture

To adjust the picture:
In TV mode, you can adjust:

- 1 Press **MENU**. The *Main* menu opens.
- 2 Press **ENTER** or **▶**. The *Picture* menu opens.



- 3 Press **▲** or **▼** to highlight an option, then press **ENTER** or **▶** to access the option, and press **◀** or **▶** to adjust the option. You can select:
 - **Picture Mode**—Selects the picture mode. You can select:
 - **Vivid** (a bright and vivid picture)
 - **Standard** (a standard picture)
 - **Game** (a finely detailed picture)
 - **Cinema** (the brightness is decreased)
 - **Power saver** (decrease the backlight for to save energy)

Note: You can also press **PICTURE** on the remote control to select the picture mode.

- **Contrast**—Lets you increase or decrease the contrast of the picture. Increase the contrast to adjust the white areas of the picture or decrease the contrast to adjust the black areas of the picture.
- **Brightness**—Lets you increase or decrease the brightness of the picture. Increasing the brightness can add more light to dark areas of the picture, while decreasing the brightness can add more darkness to light areas of the picture.
- **Backlight**—Lets you control panel overall brightness. Increasing the backlight can add more light to overall screen picture and the TV uses more power consumption. While decreasing the backlight can add more darkness to overall screen picture and the TV uses less power consumption.
- **Saturation**— Lets you adjust the intensity of the colors.
- **Hue**— Lets you adjust the overall color of the picture (only supported in TV/AV mode).
- **Sharpness**—Lets you increase the sharpness level for clearer images or decrease the sharpness level for smoother images.
- **Color temperature**—Lets you change the color temperature. You can select the color temperature from three options: **Cool**, **Normal** or **Warm**.

- 4 Press **◀** to return to the previous menu, or press **EXIT** to close the menu.

Choosing the display format (aspect ratio)

To choose the display format:

- 1 Press **ASPECT** on the remote control repeatedly to cycle through the available display formats. Options include:
 - **Normal**—Selects the 4:3 aspect ratio to show a picture with black bar on both right and left hand side.
 - **Full Screen**—Shows a full-screen picture.
 - **Zoom1**—Enlarges the picture but may crop the top and bottom of picture. And has less black bar on right and left than Normal aspect mode.

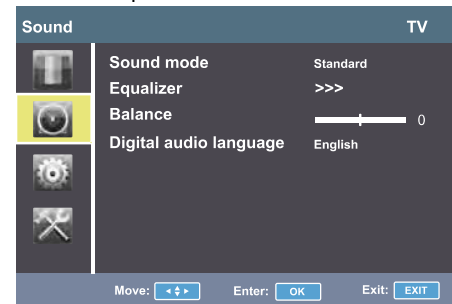
- **Zoom2**—Enlarges the picture but may crop the top and bottom of picture. And no black bar on right and left.
- **Panorama**—Stretches the picture at the edges, but maintains a good aspect ratio at the center of the screen.

Note: In analog TV mode, allows you to select all aspect modes. In digital TV mode, allows you to select Normal mode and full-screen mode. Zoom and panorama modes are not available.

Adjusting the sound

To adjust the sound:
In TV mode, you can adjust:

- 1 Press **MENU**. The *Main* menu opens.
- 2 Press **▲** or **▼** to highlight **sound**, then press **ENTER** or **▶**. The *sound* menu opens.



- 3 Press **▲** or **▼** to highlight an option, then press **ENTER** or **▶** to access the option, and press **◀** or **▶** to adjust the option. You can select:
 - **Sound mode**— Press [**◀**/**▶**] to select between 3 different pre-adjusted sound modes: Standard, music, and Clear voice. The User mode preserves your preferred sound settings after using the Equalizer available under the Sound submenu.
 - **Equalizer**—Set the users' mode of sound, press [**▲**/**▼**] button to select the sound component of 120HZ, 500HZ, 1.5K, 5K, and 10K. Press [**◀**/**▶**] button to weaken or enlarge the sound to the proper value.
 - **Balance**—Adjusts the balance between the left and right audio channels.
 - **Digital audio language**— In digital TV mode, allows you to select the audio language for a program. In analog TV mode, you can't see this option
- 4 Press **◀** to return to the previous menu, or press **EXIT** to close the menu.

Selecting the audio mode

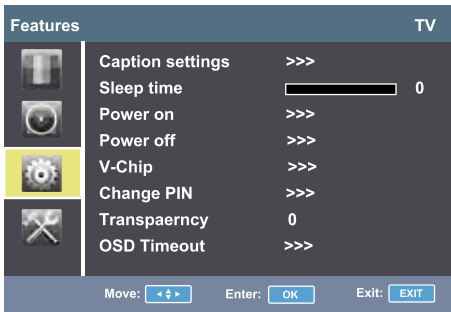
To select the audio mode:

- Press **SOUND** on the remote control one or more times to cycle through the available sound modes. Options include:
 - **Standard** (for normal programs).
 - **Dynamic** (for music programs).
 - **Clear Voice** (for news or sports programs).
 - **Custom** (for a customized sound mode).

Adjusting the Features

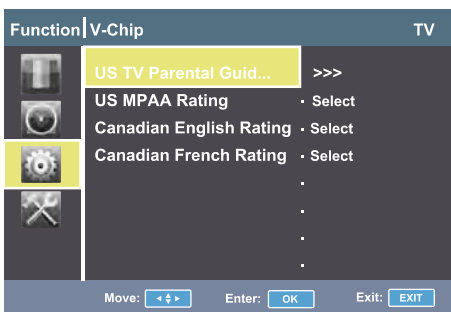
In TV mode, you can adjust:

- 1 Press **MENU**. The *Main* menu opens.
- 2 Press **▲** or **▼** to highlight **Features**, then press **ENTER** or **▶**. The *Features* menu opens.



3 Press ▲ or ▼ to highlight an option, then press **ENTER** or ► to access the option, and press ◀ or ▶ to adjust the option. You can select:

- **Caption settings** – Lets you set up closed captions (CC). Settings include Closed captions On/Off, Analog caption service, Digital caption service and Digital caption options.
Closed captions - Lets you select On, Off or On during mute.
Analog caption service - Lets you select one CC server among CC-1, CC-2, CC-3, CC-4, T-1, T-2, T-3 and T-4.
Digital caption service: Lets you select one cc server among CS-1, CS-2, CS-3, CS-4, CS-5 and CS-6.
Digital caption options: Lets you adjust the CCfont, color, background etc or you can keep default set by the broadcaster.
- **Sleep time** – Lets you select auto sleep time among 0 to 180 minutes.
- **Power on** – Lets you set up auto turn TV on time.
- **Power off** – Lets you set up auto turn TV off time.
- **V-Chip** – Lets you prevent your children from watching inappropriate material on TV. When set, parental controls read the rating of the program and deny access to programs that exceed the ratings level you select. To watch programs that exceed the selected rating, you must enter a password.



- **Access to V-Chip Menu**
Press the number buttons to enter the four-digit password. The default password is **0532**. The *V-Chip* menu opens.
- Press ▲ or ▼ to highlight an option, then press **ENTER** or ► to access the option. Press ▲ or ▼ to highlight a rating and press **ENTER** to lock the rating and all other higher ratings or unlock the rating and all other lower ratings.
- **Program Block** –
 - **A** – Rating Enable is on.
 - **B** – U.S. TV Ratings: You can choose TV ratings according to the illustration on the screen.
 - **C** – The settings for U.S. Movie Ratings, Canada (English) Ratings, and Canada (French) Ratings follow Step B. If you want to block an unrated program, turn on this function. You can select all the ratings listed in the charts below.

U.S. TV ratings (age-based)

These ratings are determined by the Federal Communications Commission (FCC).

TV-Y	All children.
TV-Y7	Suitable for children 7 and older.
TV-G	General audiences.
TV-PG	Parental guidance suggested.
TV-14	Parental guidance strongly suggested.
TV-MA	Mature audiences only.

U. S. TV ratings (content-based)

FV	Fantasy violence.
V	Violence.
S	Sexual situations.
L	Strong language.
D	Suggestive dialog.

U.S. movie (MPAA) ratings

These ratings are determined by the Motion Picture Association of America (MPAA).

G	General audiences.
PG	Parental guidance suggested.
PG-13	Suitable for children 13 and older.
R	Parental guidance suggested for children under 17.
NC-17	Not suitable for children under 17.
X	Adults only.

Canadian English ratings

These ratings are based on the Canadian Home Video Rating System, determined by the Canadian Motion Picture Distributors Association (CMPDA).

C	Suitable for all children.
C8+	Suitable for children 8 and older.
G	General audiences.
PG	Parental guidance suggested.
14+	Suitable for children 14 and older.
18+	Adults only.

Canadian French ratings

These ratings are based on the classification categories determined by La Régie du cinéma du Québec.

G	General audiences.
8 ans+	Suitable for children 8 and older.
13 ans+	Suitable for children 13 and older.
16 ans+	Suitable for children 16 and older.
18 ans+	Adults only.

Note: The V-Chip can block non rated programs as per "CEA-608-E sec. L.3". If the option to block [None], [NR], [E] or [E] programs is used in [U.S.TV ratings]kk, [U.S.movie(MPAA) ratings]kk, [Canada English ratings]kk or [Canada French ratings]kk accordingly "unusual results may occur, and the unit may not receive emergency bulletins or other types of programming." · Emergency Bulletins (Such as EAS messages, weather warnings and others) · Locally originated programming · News · Political · Public Service Announcements · Religious · Sports · Weather.