

MY MEDIA

MOVIE LIST

It displays all of the video files it recognizes.

The On-Screen Display on your model may be slightly different.

Supported movie file

- Resolution: under 1920 pixel (width) x 1080 pixel (height)
- Frame Rate: under 30 frame/sec (1920x1080), under 60 frame/sec (1280x720)
- Max bitrate of playable video file: 20 Mbps (Mega bit per second)
- Bit rate of audio format: within 32 kbps to 320 kbps (MP3)
- Supported external subtitle format: *.smi/*.srt/*.sub(MicroDVD,Subviewer1.0/2.0)/*.ass/*.ssa/*.txt(TMPlayer)/*.psb(PowerDivX)
- Supported Internal subtitle format: only, XSUB (It is the subtitle format used in DivX6 files)

Precautions when playing the video files

- ▶ Some user-created subtitles may not work properly.
- ▶ Some special characters are not supported in subtitles.
- ▶ HTML tags are not supported in subtitles.
- ▶ Time information in an external subtitle file should be arranged in ascending order to be played.
- ▶ The screen may suffer temporary interruptions (image stoppage, faster playback, etc.) when the audio language is changed.
- ▶ A damaged video file may not be played correctly, or some functions may not be usable.
- ▶ Video files produced with some encoders may not be played correctly.
- ▶ If the video and audio structure of recorded file is not interleaved, the file not playback properly.
- ▶ Video with resolution higher than maximum resolution supported for each frame, cannot be guaranteed for smooth playback.
- ▶ Video files other than the specified types and formats may not work properly.
- ▶ The movie file encoded by the GMC (Global Motion Compensation) is not supported.
- ▶ Only the files saved in ASCII Code is supported in subtitles.
- ▶ Only 250 Korean characters, 500 letters and 500 numbers are supported for each line of the subtitle.
- ▶ Only 10000 sync blocks are supported within the subtitle file.
- ▶ We do not guarantee smooth playback of profiles encoded level 4.1 or higher in H.264/AVC.
- ▶ DTS Audio codec is not supported.
- ▶ A video file more than 30GB in file size is not supported for playback.
- ▶ Playing a video via a USB connection that doesn't support high speed may not work properly.
- ▶ USB storage devices below USB 2.0 are supported as well. But they may not work properly in the movie list.
- ▶ The video file and its subtitle file must be located in the same folder.
At this time, a video file name and its subtitle file name must be identical for it to be displayed.
- ▶ When you are watching a movie via the Movie List function, you can adjust the picture with the ENERGY SAVING and AV MODE button on the remote control. User setup for each picture mode is not supported.

Supported Video Formats

File Extensions	Audio/Video	Codec	Profile/Level Support	Explanation
.asf .wmv .wma	Video	VC-1 Advanced Profile	Advanced Profile@Level 3 (e.g. 720p60, 1080i60, 1080p30)	Only streams compliant to SMPTE 421M VC-1 standard are supported.
		VC-1 Simple and Main Profiles	Simple Profile@Medium Level (e.g. CIF, QVGA) Main Profile@High Level (e.g. 1080p30)	
	Audio	WMA Standard		
		WMA 9 Professional		
.divx .avi	Video	DivX3.11	Advanced Simple Profile (e.g. 720p/1080i)	Global motion compensation or quarterpel motion estimation does not supported. Streams using this syntax are not supported.
		DivX4 DivX5 DivX6 XViD		
	Audio	H.264 / AVC	Main Profile@ Level 4.1 High Profile@ Level 4.1 (e.g. 720p60, 1080i60, 1080p30)	
		MPEG-1 Layer I, II MPEG-1 Layer III (MP3) Dolby Digital		
.mp4 .m4a .m4v	Video	H.264 / AVC	Main Profile@ Level 4.1 High Profile@ Level 4.1 (e.g. 720p60, 1080i60, 1080p30)	Global motion compensation or quarterpel motion estimation does not supported. Streams using this syntax are not supported.
		MPEG-4 Part 2	Advanced Simple Profile (e.g. 720p/1080i)	
	Audio	AAC	AAC-LC and HE-AAC	
.mkv	Video	H.264 / AVC	Main Profile@ Level 4.1 High Profile@ Level 4.1 (e.g. 720p60, 1080i60, 1080p30)	Most of the MKV content available is encoded by the open source x264 codec.
	Audio	AAC	AAC-LC and HE-AAC	
		Dolby Digital		
.ts .trp .tp	Video	H.264 / AVC	Main Profile@ Level 4.1 High Profile@ Level 4.1 (e.g. 720p60, 1080i60, 1080p30)	Only streams compliant to SMPTE 421M VC-1 standard are supported.
		MPEG-2	Main Profile@High Level(e.g. 720p60, 1080i60)	
	Audio	VC-1	Simple Profile@Medium Level (e.g. CIF, QVGA) Main Profile@High Level (e.g. 1080p30) Advanced Profile@Level3 (e.g. 720p60, 1080i60, 1080p30)	
		MPEG-1 Layer I, II MPEG-1 Layer III (MP3) Dolby Digital		
	Video	AAC	AAC-LC and HE-AAC	
.vob	Audio	MPEG-1	Main Profile@High Level (e.g. 720p60, 1080i60)	
		MPEG-2		
	Video	Dolby Digital		
		MPEG-1 Layer I, II DVD-LPCM		
.mpg	Video	MPEG-1	Main Profile@High Level (e.g. 720p60, 1080i60)	Only streams compliant configured properly for TS, PS or ES
		MPEG-2		
	Audio	MPEG-1 Layer I, II		

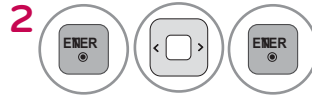
MY MEDIA

Screen Components

MY MEDIA

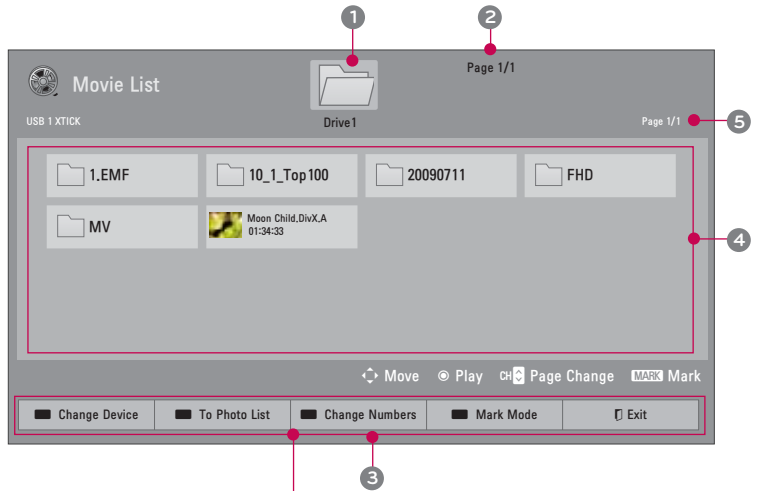


Select **MY MEDIA**.



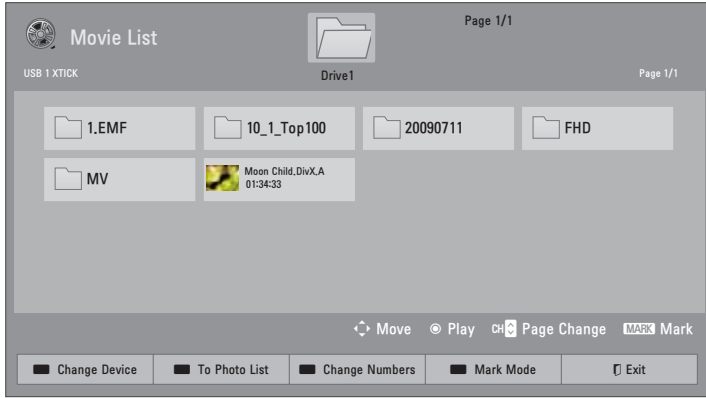
Select **Movie List**.

- ① Moves to upper level folder
- ② Current page/Total pages
- ③ Corresponding buttons on the remote control
- ④ Contents under the folder focused on ①
- ⑤ Current page/ total pages of contents



RED	Change to a different input.
GREEN	Move to Photo List or Music List .
YELLOW	Change Numbers: Changes the number of thumbnails displayed at a time.
BLUE	Allows you to mark certain files.
EXIT	Return to TV viewing.

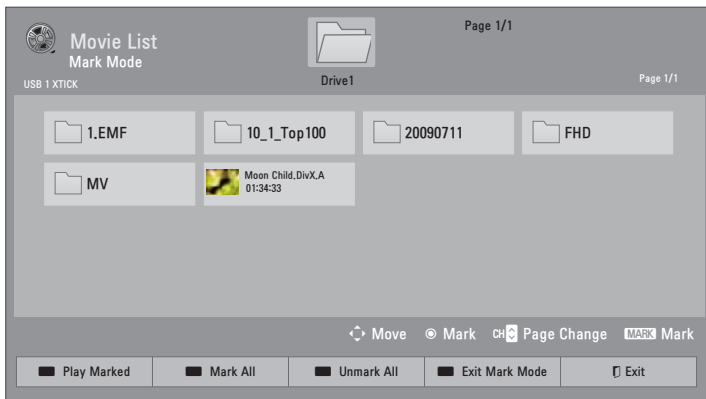
Movie Selection



- 1 Select the target folder or drive.
- 2 Select the desired movie title.
- 3 Play the movie file.

■ Use the CH (^ v) button to navigate in the movie page.

Mark Mode



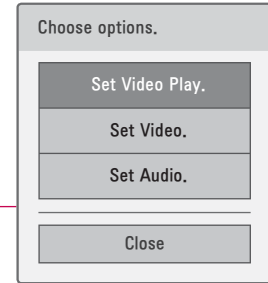
- 1 Select the target folder or drive.
- 2 Select the desired movie title.
- 3 Mark your desired movie file.
- 4 Play the marked movie file. It displays the current movie status progress bar on the bottom of the screen.




RED	Play Marked: Play the first selected file. Once a movie finishes playing, the next selected one will be played automatically.
GREEN	Mark All: Mark all files in the folder.
YELLOW	Unmark All: Deselect all marked files.
BLUE	Enter or exit the Mark Mode.

■ When one or more movie files are marked, the marked movies will be played in sequence.

MY MEDIA

Playing the Movie












- 1  Show the **Option** menu.
- 2   Select **Set Video Play.**, **Set Video.**, or **Set Audio.**

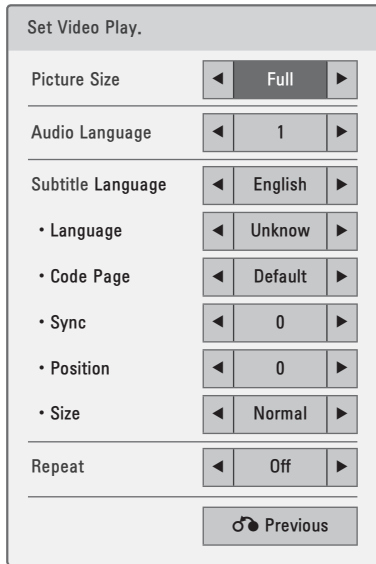
NOTE

- ▶ Option values changed in the Movie List does not affect Photo List and Music List.
- ▶ Option values changed in Photo List and Music List are changed likewise in Photo List and Music List, but not in the Movie List.
- ▶ When replaying a video file after stopping, you can play from where it stopped automatically.
- ▶ If you select "Yes" when playing the same file after the video file has been stopped, it will restart where it stopped previously.
- ▶ If continuous series files exist within the folder, the next file will automatically be played. But, this excludes cases when the Repeat function of Movie List Option is turned "On" (Refer to page 107) or when set as **Marked Play**.

Using the remote control

	Return to TV viewing.
	Select the required speed: x2, x4, x8, x16, x32 (backward/forward).
	Pauses the media player. If no buttons are pressed on the remote control for 10 minutes after pausing, the TV returns to the playback state.
	Displays slow motion.
	Move to a specific frame forward or backward while playing a video. A cursor indicating the position can be viewed on the screen. It may not work properly for some movie files.
	Return to normal playback.
	Hide the menu on screen. To see the menu again, press ENTER button.
	Press the ENERGY SAVING button repeatedly to increase the brightness of your screen (Refer to p. 132).
	Press the AV MODE button repeatedly to select the desired source (Refer to p. 88).

Set Video Play Menu Options



1 Select **Picture Size**, **Audio Language**, **Subtitle Language**, or **Repeat**.



2 Make appropriate adjustments.

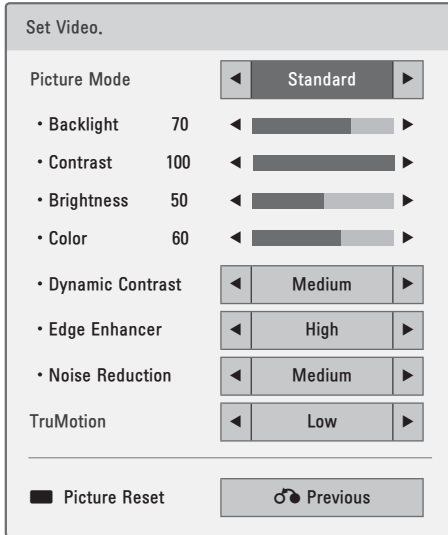
Code Page

Subtitle Language Group	Supported Language
Latin1	English, Spanish, French
Korean	English, Korean

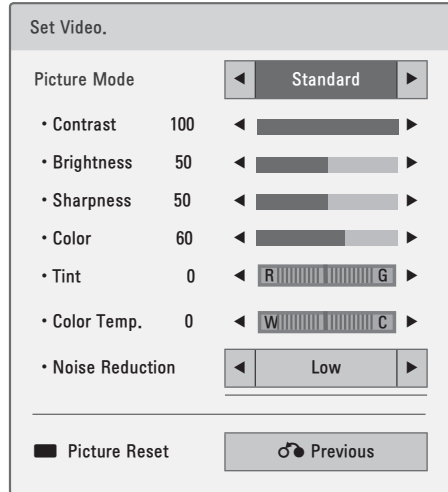
- **Picture Size:** Selects your desired picture format for videos.
- **Audio Language:** Changes the Language Group of the audio for video files.
- **Subtitle Language:** The subtitles can be turned on or off. If there are two or more subtitles, you can select one of them.
- **Language:** Activated for SMI subtitles and can select the language within the subtitle.
- **Code Page:** Subtitle font selection. When set to default, same font as general menu will be used.
- **Sync:** When the video is not synchronized with the captions, it can be adjusted by 0.5 second.
- **Position:** Move the location of the subtitles.
- **Size:** Changes the subtitle font size.
- **Repeat:** Turn on/off repeat function of movie playback. When turned on, the file within the folder will be played back repeatedly.

Set Video Menu Options

For LED LCD TV/LCD TV



For Plasma TV



1 Select **Picture Mode** or **TruMotion**.

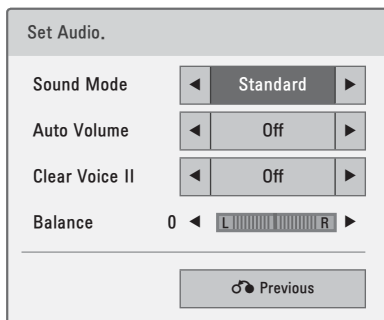


2 Make appropriate adjustments.



Reset picture settings to default.

Set Audio Menu Options



1 Select **Sound Mode**, **Auto Volume**, **Clear Voice II** or **Balance**.



2 Make appropriate adjustments.

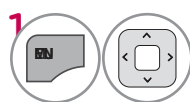
PHOTO LIST

The On-Screen Display on your model may be slightly different.

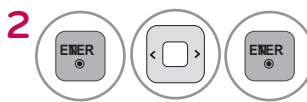
Supported photo file: *.JPG

- Baseline: 64 pixel (width) x 64 pixel (height) to 15360 pixel (width) x 8640 pixel (height)
- Progressive: 64 pixel (width) x 64 pixel (height) to 1920 pixel (width) x 1440 pixel (height)
- You can play JPEG files only.
- Non-supported files are displayed in the form of predefined icon.

Screen Components

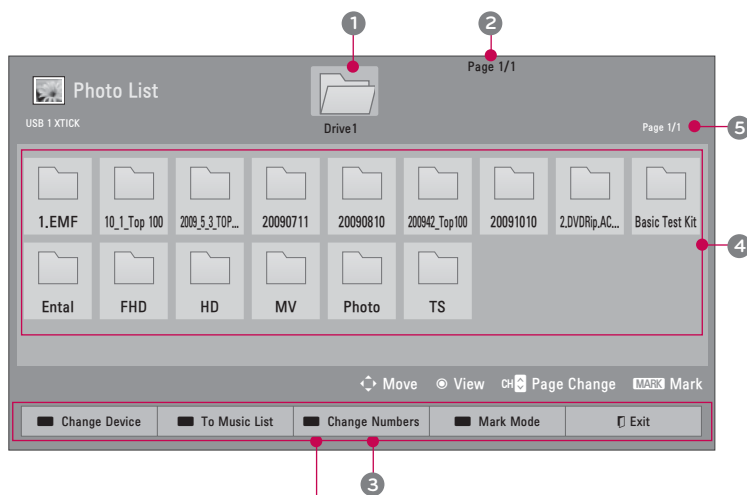


Select **MY MEDIA**.



Select **Photo List**.

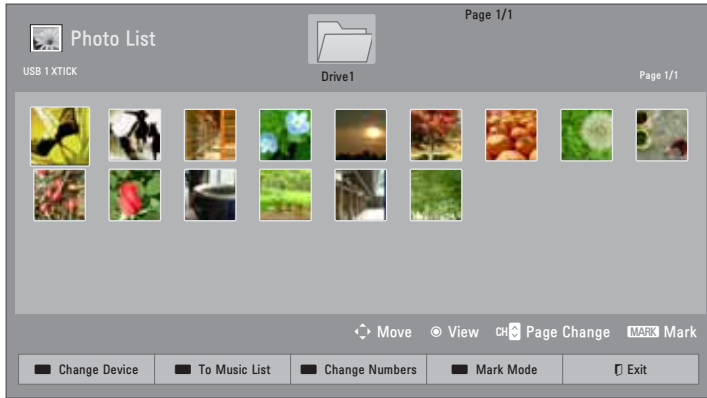
- 1 Moves to upper level folder
- 2 Current page/Total pages
- 3 Corresponding buttons on the remote control
- 4 Contents under the folder focused on 1
- 5 Current page/total pages of contents







RED	Change to a different input.
GREEN	Move to Music List or Movie List .
YELLOW	Change Numbers: Changes the number or thumbnails displayed at a time.
BLUE	Allows you to mark certain files.
EXIT	Return to TV viewing.

MY MEDIA

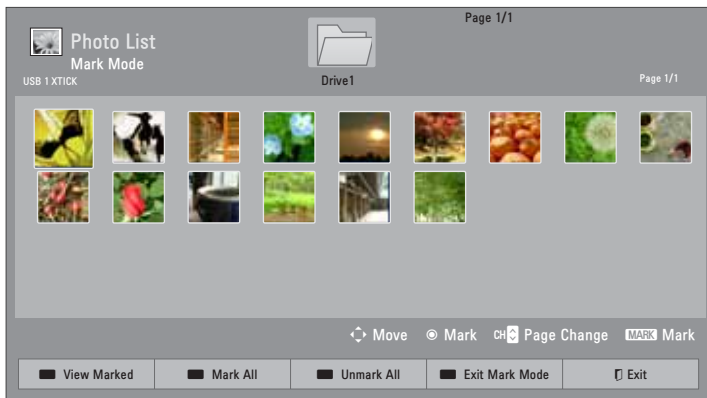
Photo Selection












- 1  Select the target folder or drive.
- 2   Select the desired photos.
- 3  Photo file is displayed.

■ Use the CH (^ v) button to navigate in the photo page.

Mark Mode



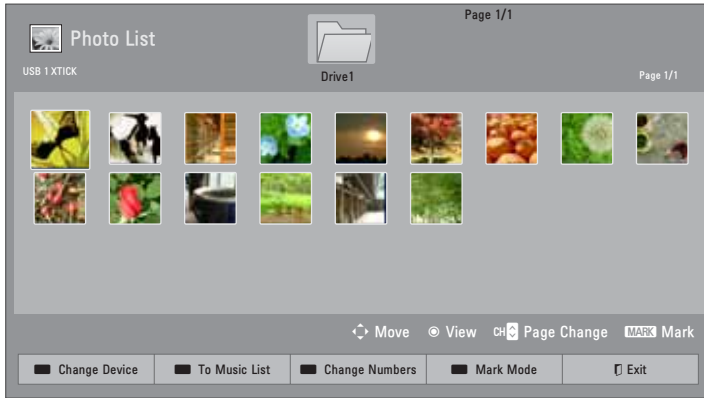
- 1  Select the target folder or drive.
- 2   Select the desired photo files.
- 3  Mark your desired photo files.
- 4  View the marked photo files.

	View Marked: Display the selected photo.
	Mark All: Mark all photos on the screen.
	Unmark All: Deselect all marked photos.
	Enter or exit the Mark Mode.





■ When one or more photos are marked, you can view individual photos or a slide show of the marked photos. If no photos are marked, you can view all photos individually or all photos in the folder in a slide show.

Full Screen Menu

More operations are available in full screen mode.

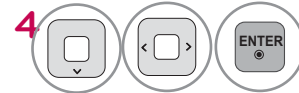


The aspect ratio of a photo may change the size of the photo displayed on the screen in full size.

-  Select the target folder or drive.
-   Select the desired photos.
-  The selected photo is displayed in full size.

- Use the CH (^ v) button to navigate in the photo page.

MY MEDIA



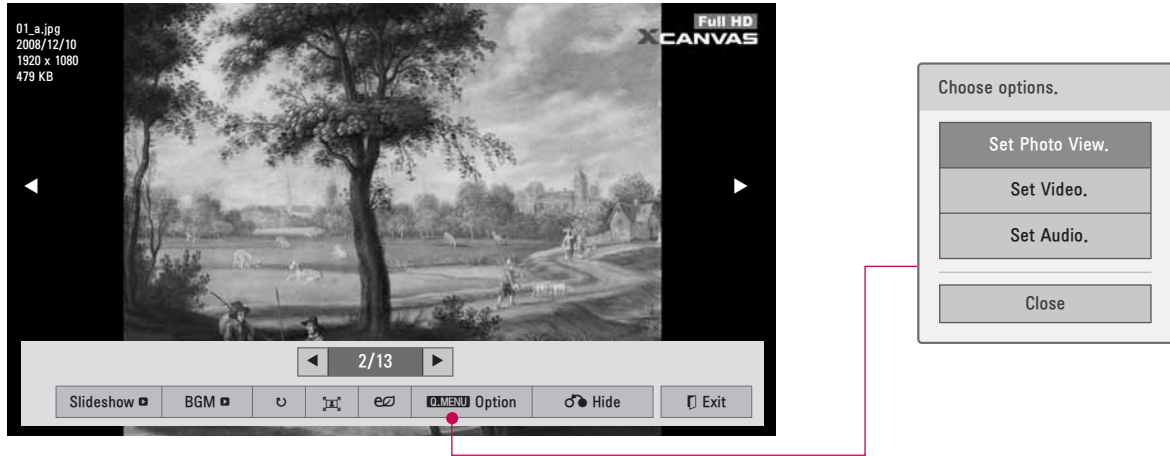
4 Select the **Slideshow**,

BGM, **U (Rotate)**, **[Full/Original]**, **e (Energy Saving)**, **Option**, or **Hide**.

- Use < > button to select the previous or next photo.

- ▶ **Slideshow**: Selected photos are displayed during the slide show. If no photo is selected, all photos in the current folder are displayed during slide show.
 - Set the time interval of the slide show in **Option-Set Photo View** menu (Refer to p. 113).
 - You can adjust **Option** by using the **Q.MENU** button on the remote control.
- ▶ **BGM (Background Music)**: Listen to music while viewing photos in full size.
 - Set the BGM device and album in **Option-Set Photo View** menu (Refer to p. 113).
 - You can adjust **Option** by using the **Q.MENU** button on the remote control.
- ▶ **U (Rotate)**: Rotate photos.
 - Rotates the photo 90 °, 180 °, 270 °, 360 ° clockwise.
 - Photos cannot be rotated if its width is greater than the available supported resolution height.
- ▶ **[Full/Original]**: View the photo in full mode or original mode.
- ▶ **e (Energy Saving)**: Increase the brightness of your screen by using ENERGY SAVING button.
- ▶ **Option**: Set values for **Slide Speed** and **BGM** (Refer to p.113).
 - You cannot change **BGM** while BGM is playing.
 - You can only select the MP3 folder saved on the device that currently displays the photo.
- ▶ **Hide**: Hide the menu on the full-sized screen.
 - To see the menu again on the full-sized screen, press **ENTER** button to display.
- ▶ **Exit**: Move to the previous menu screen.

Using the Photo List Function



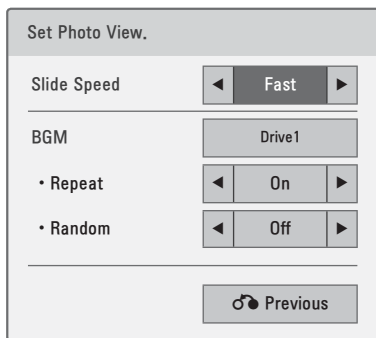
1 Show the **Option** menu.

2 Select **Set Photo View.**, **Set Video.**, or **Set Audio.**

NOTE

- ▶ Option values changed in Photo List do not affect Movie List and Music List.
- ▶ Option values changed in Photo List or Music List are changed likewise in Photo List and Music List, but not Movie List.

Set Photo View Menu Options



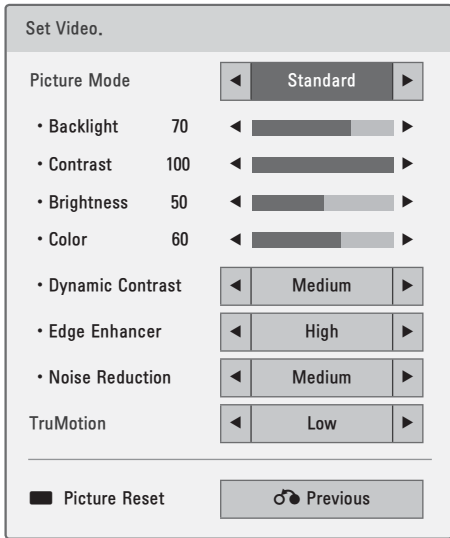
1 Select **Slide Speed** or **BGM**.

2 Make appropriate adjustments.

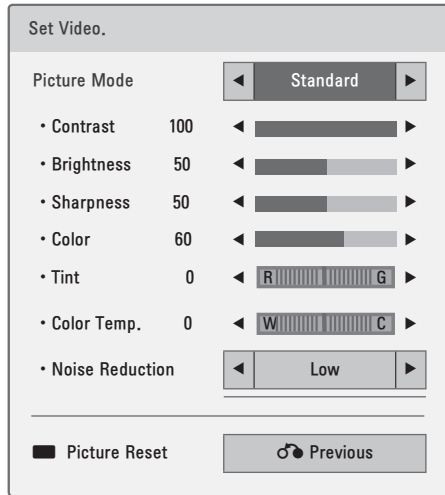
MY MEDIA

Set Video Menu Options

For LED LCD TV/LCD TV



For Plasma TV



1 Select **Picture Mode** or **TruMotion**.

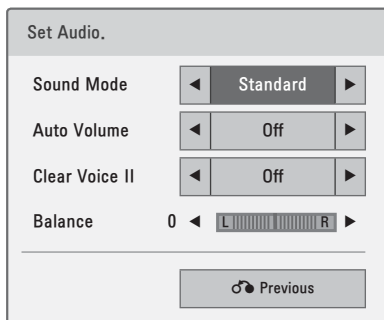


2 Make appropriate adjustments.



Initialize the adjusted picture value.

Set Audio Menu Options



1 Select **Sound Mode**, **Auto Volume**, **Clear Voice II** or **Balance**.



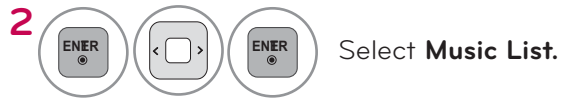
2 Make appropriate adjustments.

MUSIC LIST

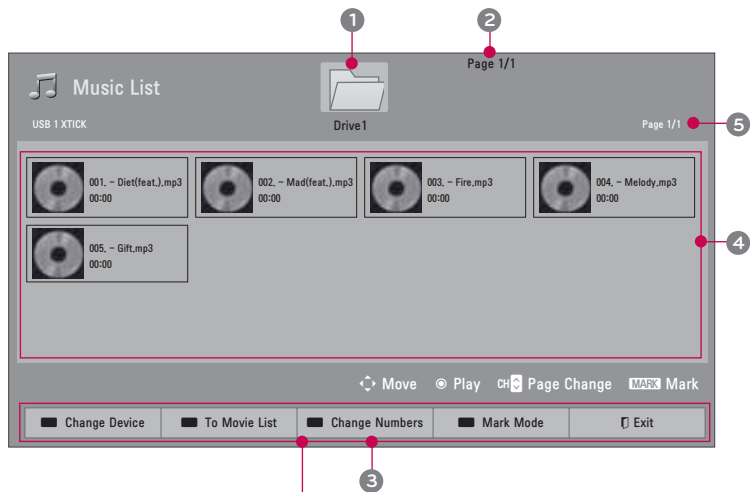
This TV cannot play back copy-protected files.
The On-Screen Display on your model may be slightly different.

Supported Music File: *.MP3
 Bit rate range: 32 Kbps - 320 Kbps
 • Sampling rate MPEG1 Layer3: 32 kHz, 44.1 kHz, 48 kHz
 • Sampling rate MPEG2 Layer3: 16 kHz, 22.05 kHz, 24 kHz

Screen Components



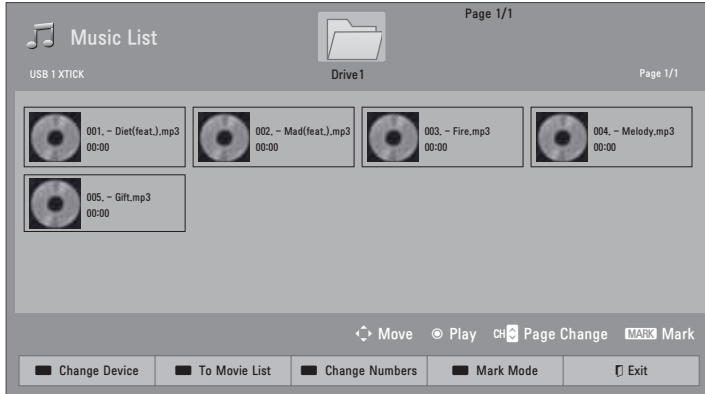
- 1 Preview: If any album jacket for the file (Album Art Image) exists, this picture is displayed.
- 2 Moves to upper level folder
- 3 Current page/Total pages
- 4 Corresponding buttons on the remote control
- 5 Contents under the folder focused on 1
- 6 Current page/total pages of contents







RED	Change to a different input.
GREEN	Move to Movie List or Photo List .
YELLOW	Change Numbers: Changes the number or thumbnails displayed at a time.
BLUE	Allows you to mark certain files.
EXIT	Return to TV viewing.
ENER	Press the ENERGY SAVING button repeatedly to increase the brightness of your screen (Refer to p. 132). (For LCD TV: It's available "ENERGY SAVING - Off, Screen Off" only.)

MY MEDIA

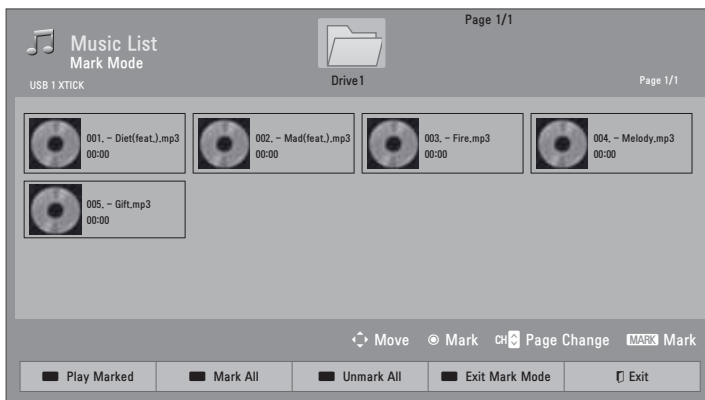
Music Selection












- 1  Select the target folder or drive.
- 2   Select the desired music file.
- 3  Music files are played.

■ Use the CH (^ v) button to navigate in the music page.

Mark Mode

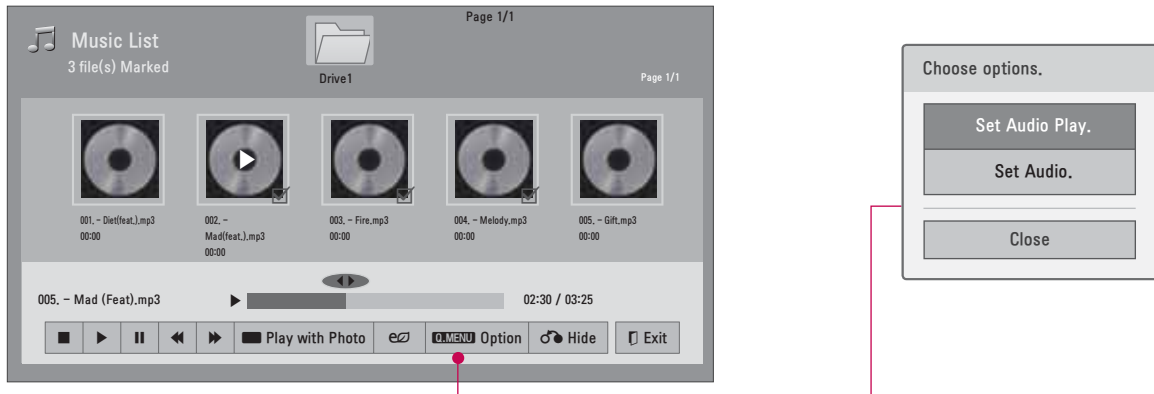


- 1  Select the target folder or drive.
- 2   Select the desired music file.
- 3  Mark your desired music file.
- 4  Play the marked music file.

	Play Marked: Play the selected songs. Once a song finishes playing, the next selected one will be played automatically.
	Mark All: Mark all songs in the folder.
	Unmark All: Deselect all marked song.
	Enter or exit the Mark Mode.

■ When one or more music files are marked, the marked music files will be played in sequence.

Using the Music List Function



- 1 Show the **Option** menu.
- 2 Select **Set Audio Play.** or **Set Audio..**

NOTE

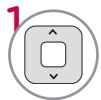
- ▶ Option values changed in Photo List do not affect Movie List and Music List.
- ▶ Option values changed in Photo List or Music List are changed likewise in Photo List and Music List, but not Movie List.
- ▶ You can listen to the music only within the device currently played.

Using the remote control

	Stop playback.
	Return to normal playback.
	Paused playback.
	Select the previous or next song.
	Play with Photo: Start playing the selected songs and then move to the Photo List.
	Press the ENERGY SAVING button repeatedly to increase the brightness of your screen (Refer to p. 132). (For LED LCD TV/LCD TV: It's available " ENERGY SAVING - Off, Screen Off " only.)
	A cursor indicating the position can be played.
	Move to the previous menu screen.

MY MEDIA

Set Audio Play Menu Options

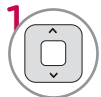
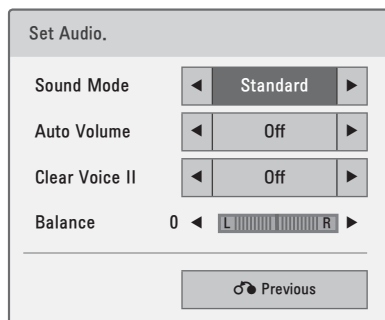


1 Select **Repeat** or **Random**.



2 Make appropriate adjustments.

Set Audio Menu Options

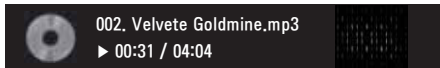


1 Select **Sound Mode**, **Auto Volume**, **Clear Voice II** or **Balance**.



2 Make appropriate adjustments.

- If you don't press any buttons for a while, the play information box will float across the screen. This prevents screen pixel damage due to a fixed image remaining on the screen for an extended period of time.



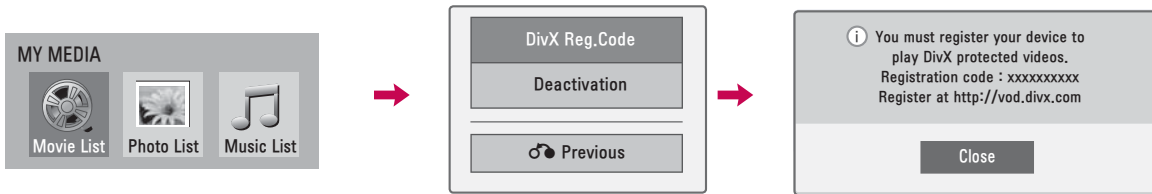
! NOTE

- ▶ Music files with copy-protection will not play.
- ▶ Press **ENTER** or **■** button to stop the screen saver.







MY MEDIA

DIVX REGISTRATION CODE

Using the registration number, movies can be rented or purchased at www.divx.com/vod. Only DivX files matched with the registration code of the purchased TV are playable.



MY MEDIA

- 1   Select **MY MEDIA**.
- 2   Select DivX Option.
- 3  Select **DivX Reg. Code**.
- 4  Display Divx Reg. Code.

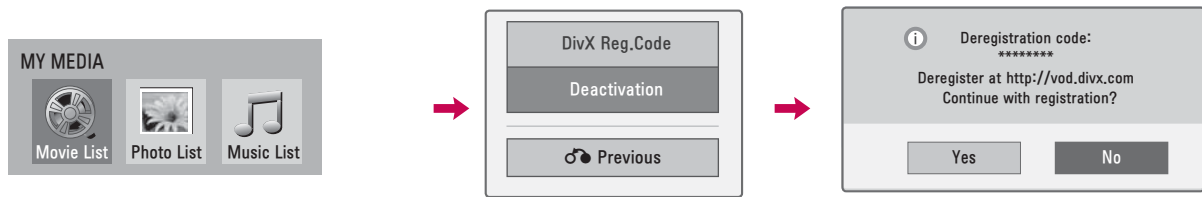
NOTE









- ▶ When loading, some buttons may not work.
- ▶ If you use the DivX registration code of another device, the rented or purchased DivX file cannot be played. Therefore always use the DivX registration code assigned to this product.
- ▶ The video or audio of a file converted based on a standard other than the DivX codec standard may be corrupted or unable to be played.

DEACTIVATION

The purpose of deactivation is to allow deactivation of devices for users who have activated all the available devices through the web server and are blocked from activating more devices. DivX VOD allows the consumer to activate up to 6 devices under one account.

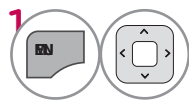
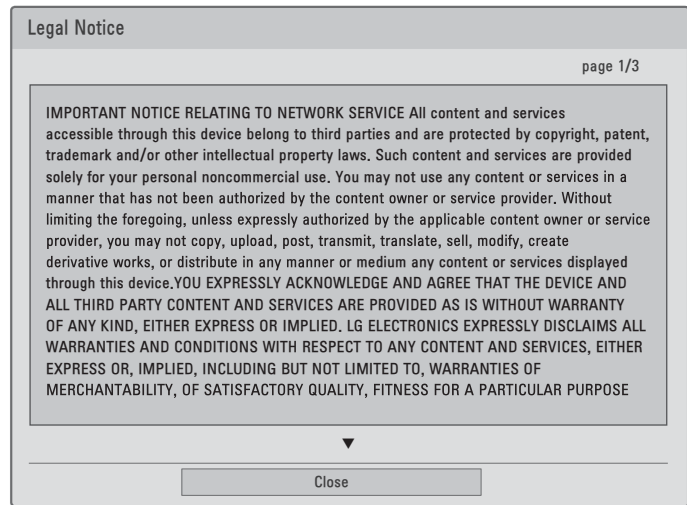
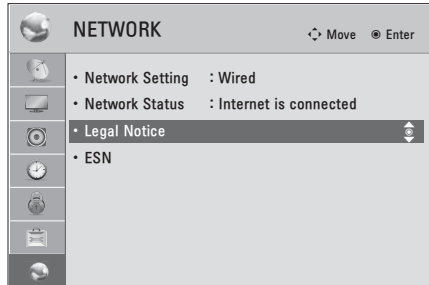
Delete the existing authentication information to receive a new DivX user authentication for TV. Once this function is executed, a DivX user authentication is required again to see DivX DRM files.



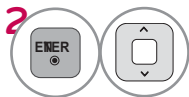
-   Select **MY MEDIA**.
-   Select DivX Option.
-  Select **Deactivation**.
-   Select **Yes**.
-  Display **Deactivation**.

NETWORK

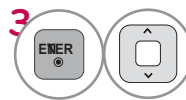
LEGAL NOTICE



Select **NETWORK**.



Select **Legal Notice**.



Check Legal notice.



Return to TV viewing.

IMPORTANT NOTICE RELATING TO NETWORK SERVICE

All content and services accessible through this device belong to third parties and are protected by copyright, patent, trademark and/or other intellectual property laws. Such content and services are provided solely for your personal noncommercial use. You may not use any content or services in a manner that has not been authorized by the content owner or service provider. Without limiting the foregoing, unless expressly authorized by the applicable content owner or service provider, you may not copy, upload, post, transmit, translate, sell, modify, create derivative works, or distribute in any manner or medium any content or services displayed through this device.

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NETCAST MENU

These services are provided by separate Content Provider.

NETCAST menu source can differ by country.

What is a NETCAST?

Stream movies, TV shows and video, or get up to the minute news, stock information or weather updates directly to your TV.



- To view the owner's manual that provided by the Content Provider, visit our website at <http://www.lge.com>.
- To see the activation method of Yahoo!, Netflix, or Vudu, click the **Yahoo!**, **Netflix**, **Vudu** in the CD manual (For USA).

1 Select **NETCAST** menu option.

■ Yahoo! (For USA)

Yahoo! TV Widgets give you the best of the Internet in perfect harmony with the simplicity and reliability of your TV. TV Widgets deliver a Cinematic internet™ experience by converting your favorite web services for viewing on the TV.

■ Netflix (For USA)

You can instantly watch movies (quite a few new releases) & TV episodes from Netflix streamed over the internet to your TV.

To become a Netflix member visit: www.netflix.com/LG

Note that this service is provided by the Content Provider, Netflix. It is dependent on Netflix to provide the data.

■ Vudu (For USA)

In order to make rental/purchase transactions on the Vudu service, a user must create an account on vudu.com.

That account is linked to a specific device, via a process called "activation". It is possible to have multiple devices associated with a single Vudu account.

Note that this service is provided by the Content Provider, Vudu. It is dependent on Vudu to provide the data.

■ YouTube

YouTube is a video sharing website where users can upload, view, and share video clips.

2 Enjoy **Picture**.

■ Picasa

Picasa is a photo organizing or sharing website where users can upload, view, and share photos.



- ▶ The videos list searched from the TV may differ with the list searched from a web browser on PC.
- ▶ The settings of this TV do not affect the YouTube's playback quality.
- ▶ The playback of videos may be paused, stopped or buffering occurring often depending on your broadband speed.
We recommend a minimum connection speed of 1.5 Mbps. For the best playback condition, a connection speed of 4.0 Mbps is required. Sometimes your broadband speed varies based on your ISP's network conditions. Contact your ISP if you have problems maintaining a fast connection that is reliable, or if you want to increase your connection speed. Many ISPs offer a variety of broadband speed options.
- ▶ For Plasma TV: If there is no user action 2 minutes following freezing image or video on screen, the screensaver will activate itself preventing fixed image remaining on screen.

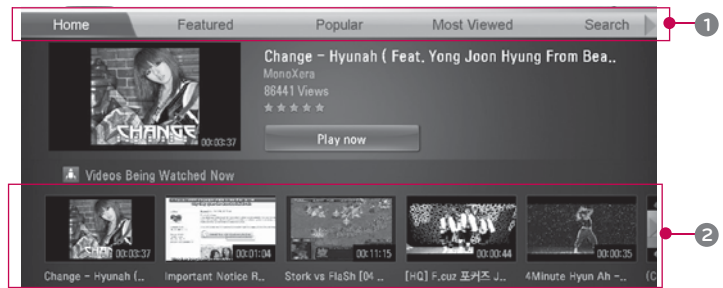
NETCAST

YOUTUBE

YouTube is a video sharing website where users can upload, view, and share video clips.

Screen Components

- 1 YouTube menu
- 2 Videos list



RED

Set the option menu.

NetCast

Return to Netcast menu.

EXIT

Return to TV viewing.

YouTube menu

Featured: The featured videos list will be displayed.

Popular: The best rated videos list from YouTube server will be displayed.

Most Viewed: The most viewed videos list will be displayed.








Search: The keypad/keyboard menu will be displayed.

History: The videos list that you previously played will be displayed. Maximum of 20 videos can be stored.

Favorites: In sign-in status, this menu will be displayed the videos list that is arranged in the YouTube server with your account (Some videos may not appear on the **Favorites** list, even if the videos are arranged in the server).

Sign in (Sign Out): Displays the keyboard menu to sign in or returns to the sign-out status.

Using the remote control

	Stops the video and displays related videos list.
	Pause the video while it is playing.
	Play the selected video.
	Skip the playback forward or backward.
	Set the option menu.
	Return to Netcast menu.
	Return to TV viewing.

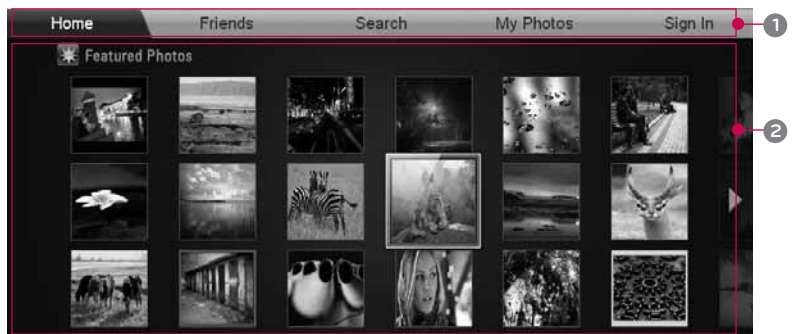
NETCAST

PICASA

Picasa is a photo organizing or sharing website where users can upload, view, and share photos.

Screen Components

- 1 Picasa menu
- 2 Photo list



Navigate the desired photos.



The selected photo file is displayed.



Return to Netcast menu.



Return to TV viewing.

Picasa menu

Home: The featured photos list will be displayed.

Friends: You can register users with the pictures you want as friends. You can add up to 10 friends.

Search: The keypad/keyboard menu will be displayed.

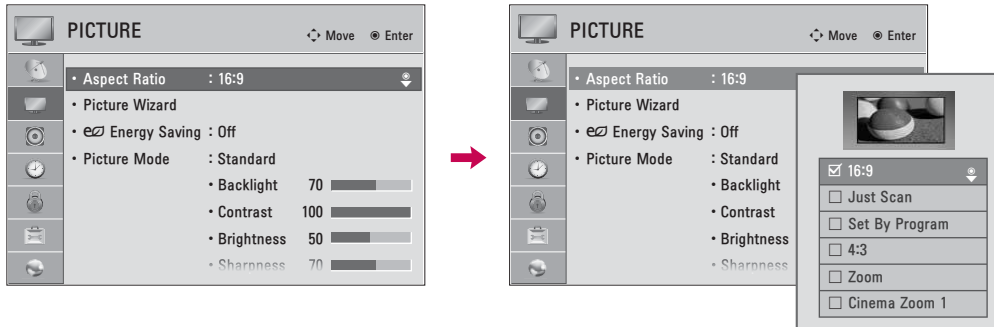
My Photos: You can view the pictures uploaded to the Web. This function can only be used when you sign in.

Sign in (Sign Out): Displays the keyboard menu to sign in or returns to the sign-out status.

PICTURE CONTROL

PICTURE SIZE (ASPECT RATIO) CONTROL

This feature lets you choose the way an analog picture with a 4:3 aspect ratio is displayed on your TV. You can select a different aspect ratio depending on input source (analog broadcasting, digital broadcasting, aux).



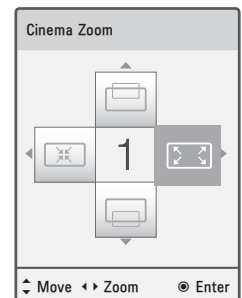
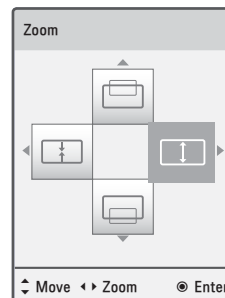
- 1 Select **PICTURE**.
- 2 Select **Aspect Ratio**.
- 3 Select the desired picture format.
- 4 Return to the previous menu.
- Return to TV viewing.

- You can also adjust **Aspect Ratio** in the **Q.MENU**.
- Press the **RATIO** button repeatedly to select the desired picture format.

PICTURE CONTROL

When adjusting Zoom or Cinema Zoom in Q.MENU

- 1 Select **Aspect Ratio**.
- 2 Select **Zoom** or **Cinema Zoom**.
- 3 Adjust proportion of Zoom or Cinema Zoom. The Cinema Zoom adjustment range is 1-16.
- 4 Move the image on the screen.



16:9

Adjust the picture horizontally, in a linear proportion to fill the entire screen.



Just Scan

Normally the edges of video signals are cropped 1-2%. Just Scan turns off this cropping and shows the complete video.

Notes: If there is noise on the edges of the original signal, it will be visible when Just Scan is activated.

Just Scan operates only in DTV/Cable DTV/Component/HDMI-DTV/DVI-DTV (720p/1080i/1080p) input source.



Set By Program

Selects the proper picture proportion to match the source's image.

(4:3 → 4:3)



(16:9 → 16:9)



4:3

Choose 4:3 when you want to view a picture with an original 4:3 aspect ratio.



Zoom

Choose Zoom when you want to view the picture without any alteration. However, the top and bottom portions of the picture will be cropped.



Cinema Zoom

Choose Cinema Zoom when you want to enlarge the picture in correct proportion.

This enlarges an image with cinemascope aspect ratio (2.35:1) without distortion.

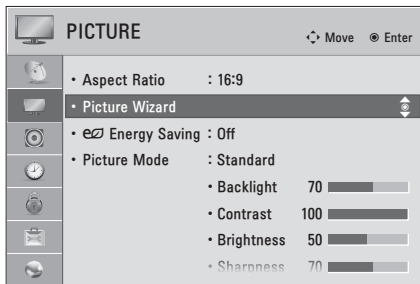
Note: When enlarging or reducing the picture, the image may become distorted.



PICTURE CONTROL

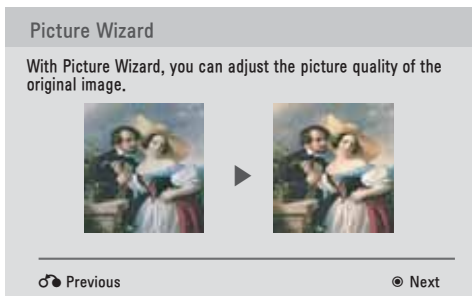
PICTURE WIZARD

This feature lets you adjust the picture quality of the original image. Use this to calibrate the screen quality by adjusting the Black and White Level etc. You can calibrate the screen quality by easily following each step. When you adjust the image to **Low**, **Recommended** or **High**, you can see the example of the changes you made.



1 Select **PICTURE**.

2 Select **Picture Wizard**.

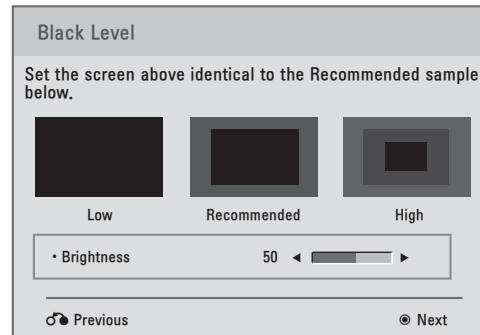


3 Adjust **Picture Wizard**.

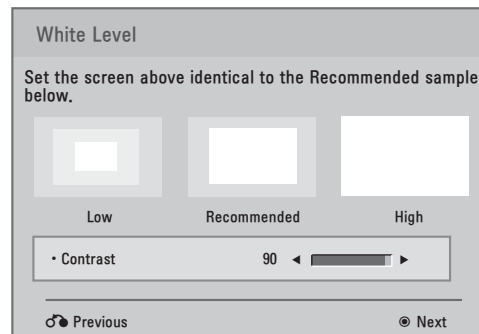


4 Adjust **Standard/Preferred**.

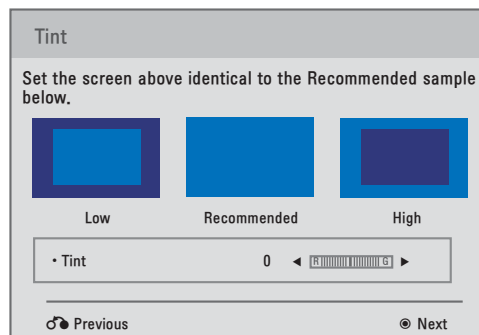
■ If you select **Preferred**, OSD (On Screen Display) differ from that shown in this manual.



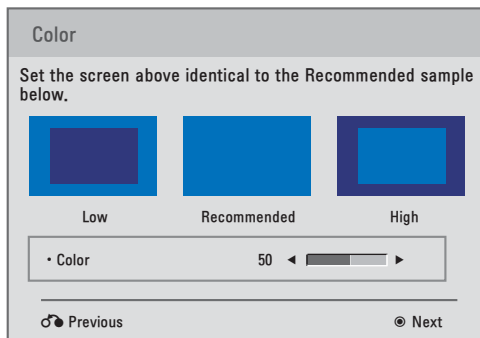
5 Adjust **Black Level**.



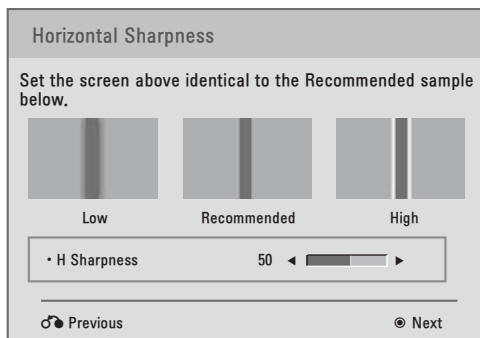
6 Adjust **White Level**.



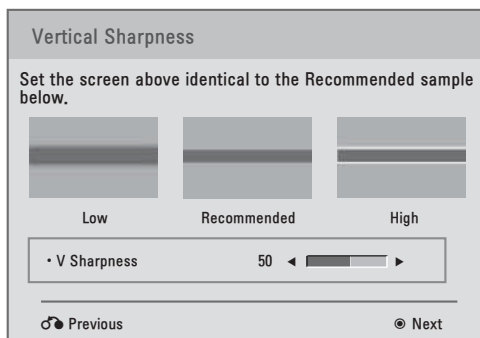
7 Adjust **Tint**.



8 Adjust **Color**.

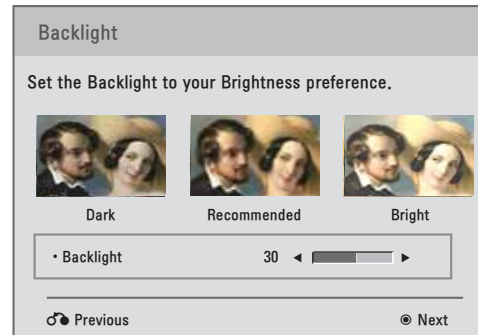


9 Adjust **Horizontal Sharpness**.



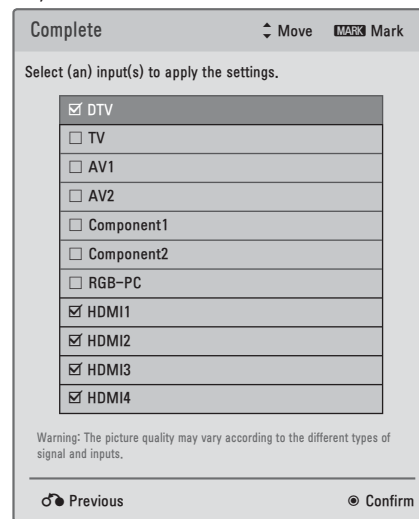
10 Adjust **Vertical Sharpness**.

For LED LCD TV/LCD TV



11 Adjust **Backlight**.

i.e)



12 Select input source to apply the settings.

13 Save.



14 Finish the Picture Wizard.

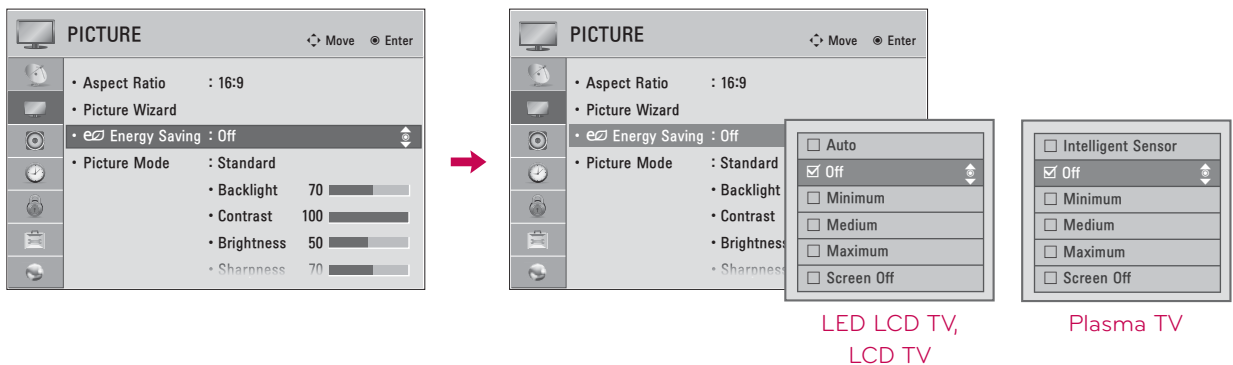
- If you stop the Picture Wizard before the final step, the changes will not be saved to the TV.
- Once the **Picture Wizard** sets the picture quality, **EasySig** is changed to **Expert1** automatically.
- To reset changes made by **Picture Wizard**, operate **Picture Reset** when **Picture Mode** is on **Expert1**.

PICTURE CONTROL

e ENERGY SAVING

It reduces the TV's power consumption by lowering the backlight level.

You can increase the brightness of your screen by adjusting the **EgySig** level or by adjusting the **Picture Mode**.

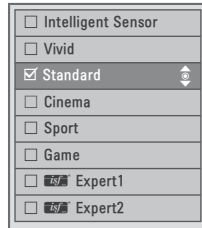
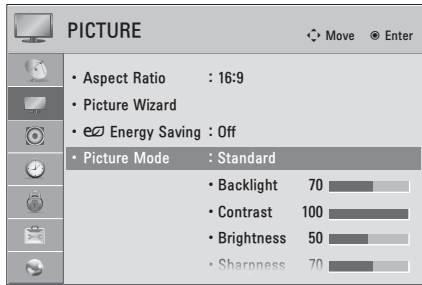


- 1 Select **ETBE**
- 2 Select **e EgySig**.
- 3 Select your desired menu option.
- 4 Return to the previous menu.
- Return to TV viewing.

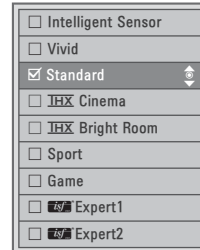
- When selecting **Screen off**, the screen will turn off after 3 seconds.
- If you adjust "**EgySig** **Auto**, **Minimum**", **Backlight** option will not work (For LED LCD TV/LCD TV).
- When selecting **Auto**, **Backlight** is automatically adjusted through **Intelligent Sensor** according to the surrounding conditions. (For LED LCD TV/LCD TV)
- Press the **EXIT** button repeatedly to select the appropriate Energy Saving setup.

PRESET PICTURE SETTINGS (PICTURE MODE)

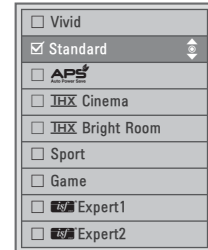
There are factory presets for picture settings available in the user menus. You can use a preset, change each setting manually, or use the Intelligent Sensor.



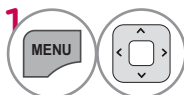
Other models



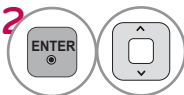
47/55LE8500



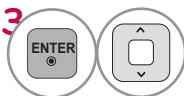
Plasma TV



Select **ETBE**



Select **Picture Mode**.



Select your desired menu option.



Return to the previous menu.



Return to TV viewing.

- Vivid**, **Standard**, **Cinema**, **Sport**, and **Game** Settings are preset for the optimum picture quality at the factory.
- Vivid**: This is the mode to maximize the effect of the video in the retail store. Strengthen the contrast, brightness, color and sharpness for vivid picture.
- Standard**: This is the mode to realize optimum viewing condition for the general user.
- APS (Auto Power Save)**: This is the mode to maximize reducing the power consumption without hurting the picture quality. This feature is available only on Plasma TV.
- Cinema**: This mode optimizes video for watching movies.
- THX Cinema**: This is cinema quality mode to provide you the experience of watching a movie at home. The user will be able to enjoy the best level of satisfactory screen quality in any movie without any separate adjustments. **THX Cinema** expresses the optimal screen quality when it is darkest.

When selecting **THX Cinema**, Aspect ratio changes to Just scan.

- THX Bright Room**: This is the specification to optimize TV viewing in Bright Room. When selecting **THX Bright Room**, Aspect ratio changes to Just scan.
- Sport**: This is the video mode to emphasize dynamic video and primary color (e.g. white, uniform, grass, sky blue etc.) by realizing the optimal screen for sports.
- Game**: This is the mode to realize fast response speed in a fast gaming screen.
- Expert**: This is the mode to adjust the video in detail for video quality expert and general user.
- You can also adjust **Picture Mode** in the **Picture Wizard**.
- When selecting **Picture Mode**, **Energy Saving** is changed to **Auto** automatically (For LED LCD TV/LCD TV).
- When selecting **Picture Mode**, it changes Backlight, contrast, brightness, sharpness, color and tint automatically (For LED LCD TV/LCD TV).
- Intelligent Sensor**: The most suitable picture is automatically adjusted according to the surrounding conditions.

PICTURE CONTROL

MANUAL PICTURE ADJUSTMENT - USER MODE

Adjust the picture appearance to suit your preference and viewing situations.



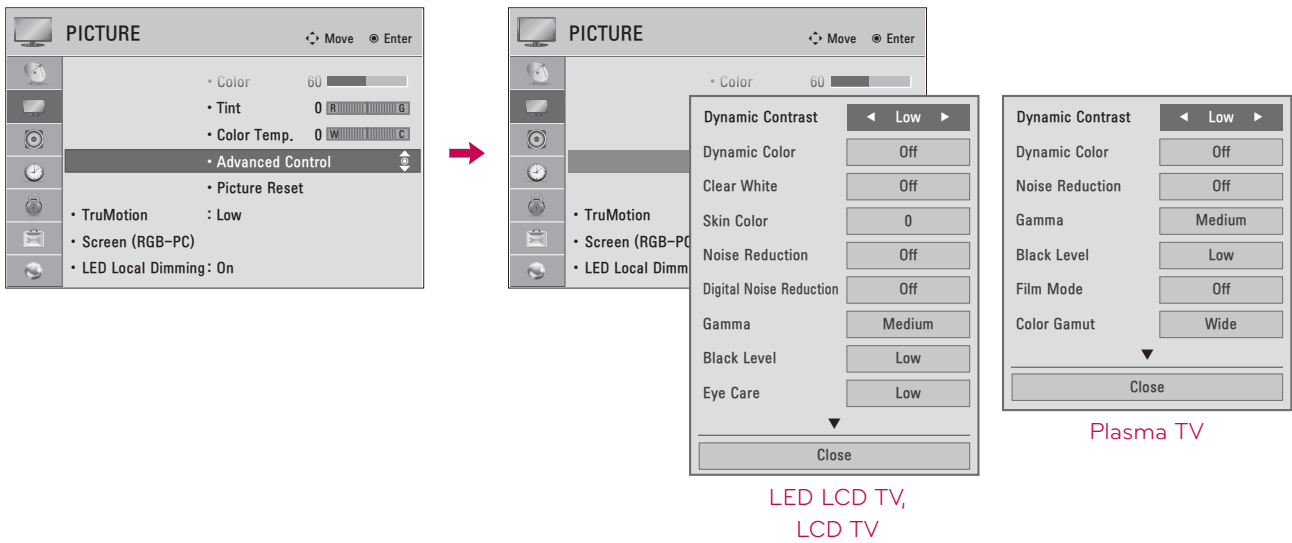
PICTURE CONTROL


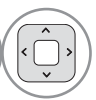



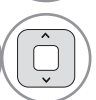
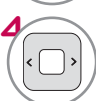


- 1 Select **PICTURE**
- 2 Select **Picture Mode**.
- 3 Select your desired menu option.
- 4 Select **Backlight** (For LED LCD TV/LCD TV), **Contrast**, **Brightness**, **Sharpness**, **Color Temp.**, or **Advanced Color**
- 5 Make appropriate adjustments.
- 6 Return to the previous menu.
- Return to TV viewing.

- **Backlight** (For LED LCD TV/LCD TV): This function adjusts the brightness of the backlight behind the LCD screen. Adjusting the backlight is recommended when setting the brightness of the TV. When decreasing the backlight, the brightness of the black becomes darker without any loss in video signal and the power consumption is reduced.
- **Contrast**: Increase or decrease the gradient of the video signal. You may use Contrast when the bright part of the picture is saturated.
- **Brightness**: Adjusts the base level of the signal in the picture. You may use Brightness when the dark part of the picture is saturated.
- **Sharpness**: Adjusts the level of crispness in the edges between the light and dark areas of the picture. The lower the level, the softer the image.
- **Color** Adjusts intensity of all colors.
- **Color Temp.** Adjusts the balance between red and green levels.
- **Color Temp.:** Set to warm to enhance hotter colors such as red, or set to cool to enhance cooler colors such as blue.

PICTURE IMPROVEMENT TECHNOLOGY (ADVANCED CONTROL)

Advanced Control allows you to adjust some of the advanced features of your LG display. To reset to the factory default after making adjustments to each input source, execute the **Picture Reset** function for each Picture Mode.

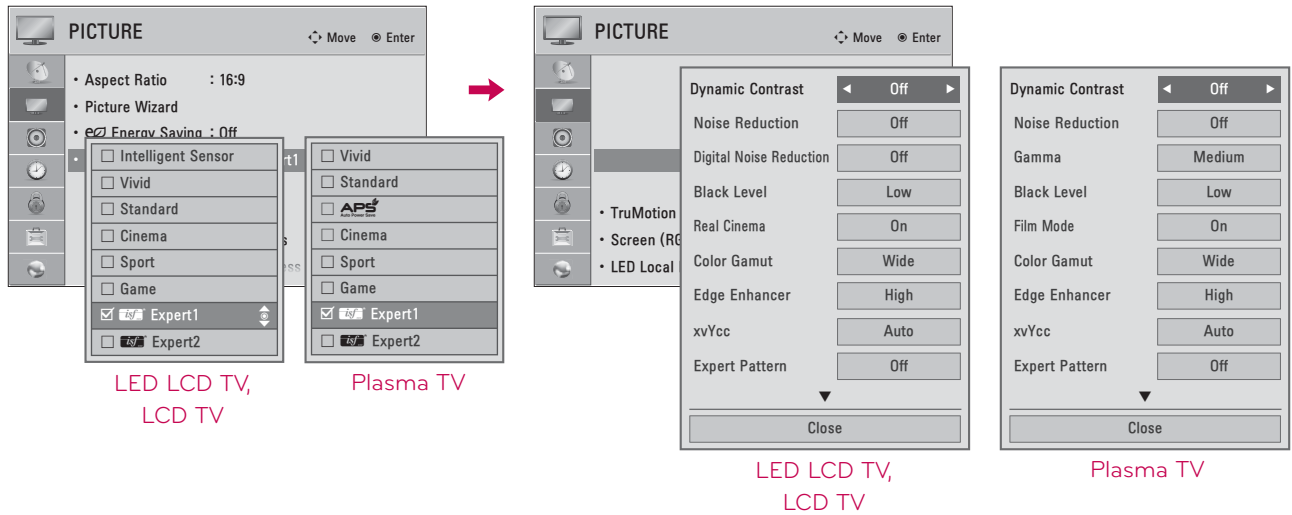


- 1   Select **PICTURE**.
- 2   Select **Advanced Control**.
- 3   Select your desired menu option.
- 4  Make appropriate adjustments.
- 5  Return to the previous menu.
-  Return to TV viewing.

PICTURE CONTROL

EXPERT PICTURE CONTROL

Expert1 and Expert2 provide even more advanced picture settings for users. Typical used by professionals for calibrating the TV.



- 1 Select **PICTURE**.
- 2 Select **Picture Mode**.
- 3 Select **Expert1** or **Expert2**.
- 4 Select **Expert Control**.
- 5 Select your desired menu option.
- 6 Make appropriate adjustments.
- 7 Return to the previous menu.
- Return to TV viewing.

*This feature is not available for all models.

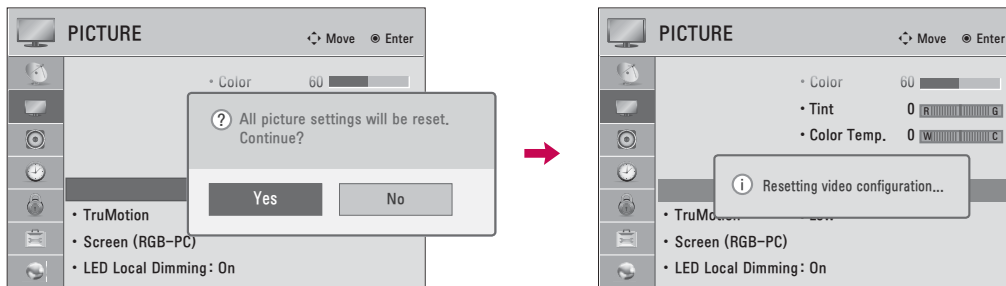
Dynamic Contrast	<ul style="list-style-type: none"> Adjusts the contrast to keep it at the best level according to the brightness of the screen. The picture is improved by making bright parts brighter and dark parts darker.
Dynamic Color	<ul style="list-style-type: none"> Adjusts screen colors so that they look livelier, richer and clearer. This feature enhances hue, saturation and luminance so that red, blue, and green look more vivid.
Skin Color	<ul style="list-style-type: none"> It detects the skin area of video and adjusts it to express a natural skin color.
Noise Reduction	<ul style="list-style-type: none"> Reduces screen noise without compromising video quality.
Digital Noise Reduction	<ul style="list-style-type: none"> Removes noise caused by compressing video.
Gamma	<ul style="list-style-type: none"> You can adjust brightness of dark areas and middle gray level areas of the picture. <p>Low : Make brighter and middle gray level areas of the picture brighter. Medium : Express original picture levels. High: Make dark and middle gray level areas of the picture darker.</p>
Black Level	<p>Low: The reflection of the screen gets darker. High: The reflection of the screen gets brighter.</p> <ul style="list-style-type: none"> Set black level of the screen to proper level. This function is available in the following modes: AV (NTSC-M), HDMI or Component.
Clear White	<ul style="list-style-type: none"> Make the white area of screen brighter and more white.
Eye Care	<ul style="list-style-type: none"> Adjust the brightness of the screen to prevent the screen from being too bright. Dims extremely bright pictures. This feature is enabled in "Picture Mode-Standard, Sports, Game".
Real Cinema or Film Mode	<ul style="list-style-type: none"> Makes video clips recorded in film look more natural by eliminating judder effect. DVD and Blu-ray movies are filmed at 24 frames per second (fps). With LG Real Cinema, every frame is consistently processed 5 times in 1/24 of a second producing 120 fps with TruMotion or 2 times in 1/24 of a second producing 48 fps without TruMotion, thus totally eliminating the judder effect. This function can also work when TruMotion is off.
Color Gamut	<p>LED LCD TV/LCD TV: Advanced Control Plasma TV: Advanced Control, Expert Control</p> <p>Standard: Displays standard set of colors. Wide: Increase number of colors used.</p> <ul style="list-style-type: none"> Maximize the utilization of colors to increase color quality. <p>LED LCD TV/LCD TV: Expert Control</p> <ul style="list-style-type: none"> Displays color domain of the signal. <p>Standard: Displays standard set of colors. Wide: Increase number of colors used. EBU: Mode to display EBU standard color area. SMPTE: Mode to display SMPTE standard color area. BT709: Mode to display BT709 standard color area.</p>









PICTURE CONTROL

Edge Enhancer	<ul style="list-style-type: none"> Show clearer and distinctive yet natural edges in the video. This function is enabled in "Picture mode - Expert".
xvYCC	<ul style="list-style-type: none"> This produces richer colors. This feature represents rich color as much as conventional video signal. This function is enabled in "Picture mode - Cinema / High Cinema / High Bright Room, Expert" when a xvYCC signal is inputted through HDMI.
Color Filter	<ul style="list-style-type: none"> This function filters specific colors in the video. You can use the RGB filter to set color saturation and hue accurately.
Expert Pattern	<ul style="list-style-type: none"> This is a pattern used for expert adjustment. This function is enabled in "Picture mode - Expert" when you watch DTV.
Color Temperature	<ul style="list-style-type: none"> Adjusts the overall color of the screen by changing the white baseline. <ol style="list-style-type: none"> Gamma : Select 1.9, 2.2, 2.4 Method : 2 Points <ul style="list-style-type: none"> Pattern: Inner, Outer Red/Green/Blue Contrast, Red/Green/Blue Brightness: The adjustment range is -50 - +50. Method : 10 Point IRE (LB LCD TV LCD TV) <ul style="list-style-type: none"> Pattern: Inner, Outer IRE (Institute of Radio Engineers) is the unit to display the size of the video signal and can be set among 10, 20, 30 - 100. You can adjust Red, Green or Blue according to each setting. Luminance: This function displays calculated luminance value for 2.2 gamma. You can input luminance value you want at 100 IRE, then the target luminance value for 2.2 gamma is displayed at every 10 steps from 10 IRE to 90 IRE. Red/Green/Blue: The adjustment range is -50 - +50. Method : 20 Point IRE (Esma TV) <ul style="list-style-type: none"> IRE (Institute of Radio Engineers) is the unit to display the size of the video signal and can be set among 5, 10, 15 - 100. You can adjust Red, Green or Blue according to each setting. Red/Green/Blue: The adjustment range is -50 - +50. Apply to all inputs
Color Management System	<ul style="list-style-type: none"> A tool used by the experts to make adjustments by using the test patterns, this does not affect other colors but can be used to selectively adjust the 6 color areas (Red/Green/Blue/Cyan/Mgt/Yellow). Color difference may not be distinctive even when you make the adjustments for the general video. Adjusts Red/Green/Blue/Yellow/Cyan, Magenta. <ul style="list-style-type: none"> Red/Green/Blue/Yellow/Cyan/Magenta Color: The adjustment range is -30 - +30. Red/Green/Blue/Yellow/Cyan/Magenta Tint: The adjustment range is -30 - +30. This feature is disabled in RGB-PC and HDMI-PC mode.

PICTURE RESET

Settings of the selected picture modes return to the default factory settings.

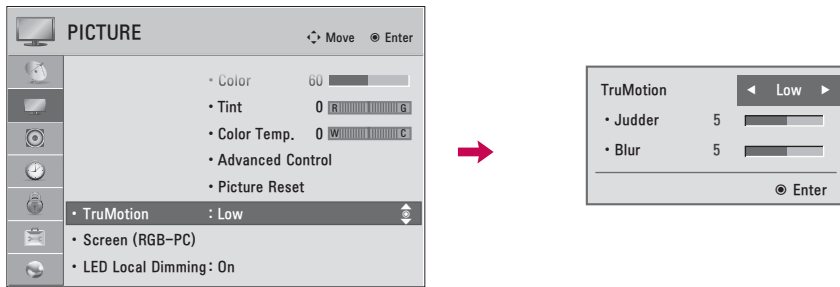








- 1   Select **PICTURE**.
- 2   Select **Picture Reset**.
- 3   Select **Yes**.
- 4  Initialize the adjusted value.
-  Return to TV viewing.

PICTURE CONTROL






TRUMOTION - For LED LCD TV, LCD TV

Advance video technology that provides clearer, smoother images, even during fast action scenes creating a more stable structure for a crisper picture.



- 1   Select **PICTURE**.
- 2   Select **TruMotion**.
- 3   Select **Low, High, User, or Off**.

Adjustment for TruMotion (Judder and Blur) with selecting User

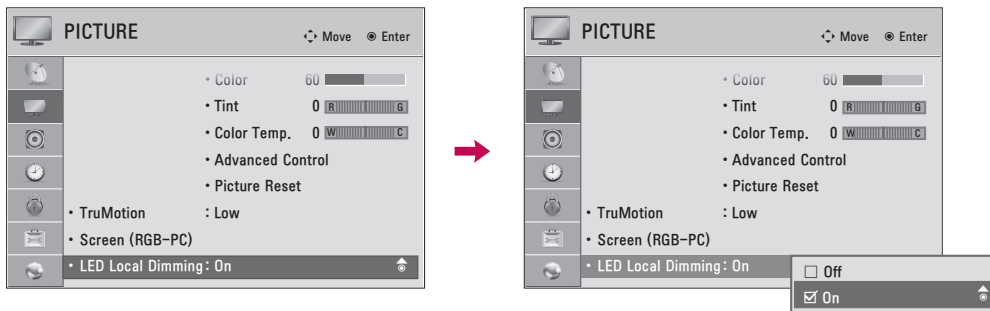
- 4   Select **Judder** or **Blur**.
- 5  Make appropriate adjustments.
- 6  Return to the previous menu.
-  Return to TV viewing.









- **Off**: Turn off **TruMotion** operation.
- **Low**: Provides smooth picture movement. Use this setting for standard use.
- **High**: Provides smoother picture movement.
- **Judder**: Adjusts noise of the screen.
- **Blur**: Adjusts after-image of the screen.
- **TruMotion** works with all inputs except PC mode.
- If you enable "**TruMotion**", noise may appear on the screen. If this occurs, set "**TruMotion**" to "**Off**".
- If you select "**Picture Mode-Game**" set "**TruMotion**" to "**Off**".

LED LOCAL DIMMING

- For 42/47/55LE5500, 42/47/55LE7500, 47/55LE8500

After analyzing the signal of the input video by areas of the screen, it adjusts the backlight to improve the contrast ratio. This feature is disabled in "Picture Mode-Game".

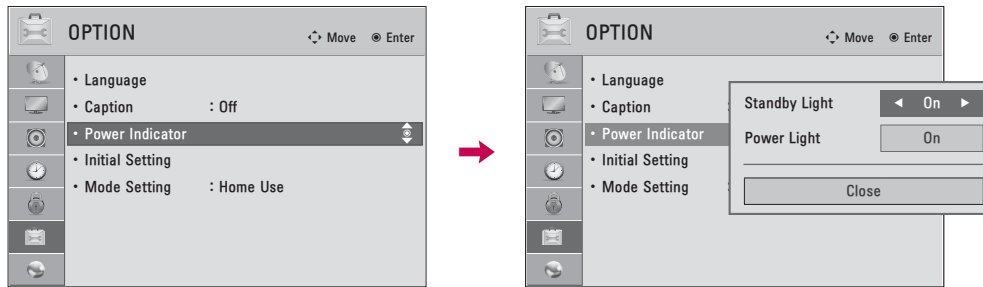






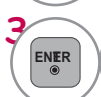




-   Select **PICTURE**.
-   Select **LED Local Dimming**.
-   Select **On** or **Off**.
-  Return to the previous menu.
-  Return to TV viewing.

PICTURE CONTROL

POWER INDICATOR - For LED LCD TV, LCD TV

Adjust the power/standby indicator light on the front of the TV.

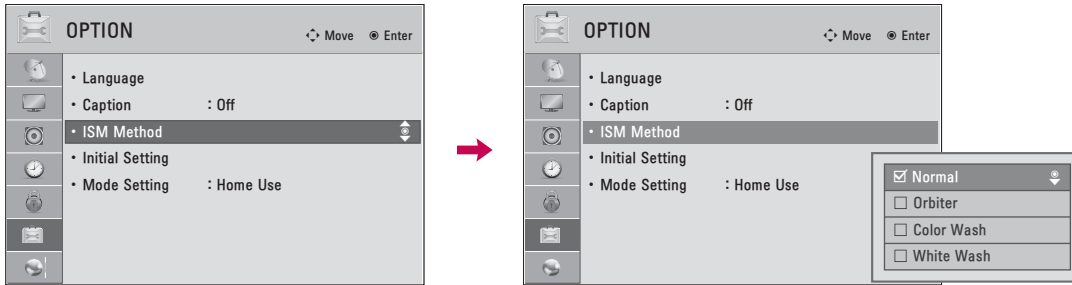









-   Select **OPTION**.
-   Select **Power Indicator**.
-   Select **Standby Light** or **Power Light**.
-  Select your desired options.
-  Return to the previous menu.
-  Return to TV viewing.

- **Standby Light:** Determines whether to set the indicator light on the front of the TV to **On** or **Off** in standby mode.
- **Power Light:** Determines whether to set the indicator light on the front of the TV to **On** or **Off** when the power turns on.

IMAGE STICKING MINIMIZATION (ISM) METHOD - For Plasma TV

A frozen still picture displayed on the screen for prolonged periods can result in a ghost image. You can use Orbiter to help prevent image sticking. The other two functions are for removing a ghost image.



-   Select **OPTION**.
-   Select **ISM Method**.
-   Select **Normal, Orbiter, Color Wash, or White Wash**.
-  Return to TV viewing.

- **Normal:** If image sticking is never a problem, ISM is not necessary - set to Normal.
- **Orbiter:** To avoid a ghost image on the screen, the image will move every 2 minutes to help prevent ghost images. However, it is best not to allow any fixed image to remain on the screen.
- **Color Wash:** The color block with the screen moved a little and the white pattern are alternately displayed. It is difficult to see the after image on all colors.
Once it has been corrected it will not be visible in any color.
- **White Wash:** White Wash removes ghost images from the screen. Use sparingly. Watch the TV normally for a while before using this feature to see if the ghost image disappears on its own.

NOTE

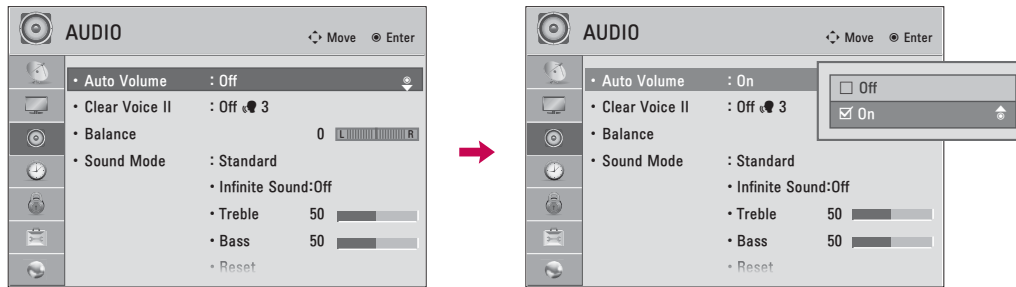
- An excessive ghosted image may be impossible to clear entirely with White Wash. To return to normal viewing, press the any button.






SOUND & LANGUAGE CONTROL

AUTO VOLUME

Auto Volume makes sure that the volume level remains consistent whether you are watching a commercial or a regular TV program.

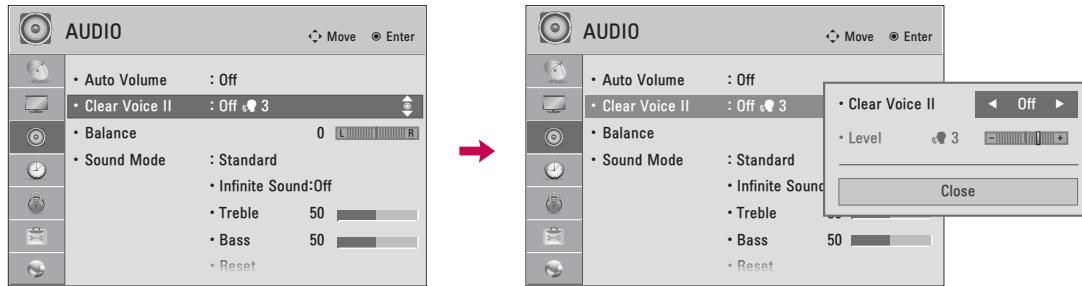
Because each broadcasting station has its own signal conditions, volume adjustment may be needed every time the channel is changed. This feature allows users to enjoy stable volume levels by making automatic adjustments for each program.



-   Select **AUDIO**.
-   Select **Auto Volume**.
-   Select **On** or **Off**.
-  Return to the previous menu.
-  Return to TV viewing.

CLEAR VOICE II

By differentiating the human sound range from others, it improves the sound quality of voices.



1   Select **AUDIO**.


2   Select **Clear Voice II**.


3   Select **On** or **Off**.

Adjustment for Clear Voice Level with selecting On

4  Select **Level**.

5  Make appropriate adjustments.

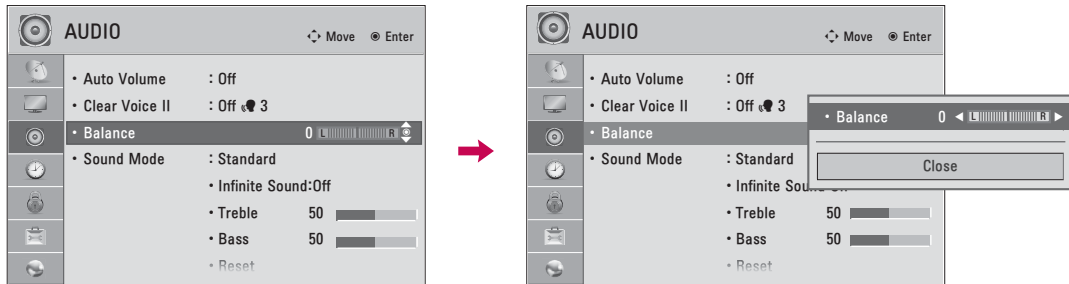
6  Return to the previous menu.









 Return to TV viewing.

SOUND & LANGUAGE CONTROL

BALANCE

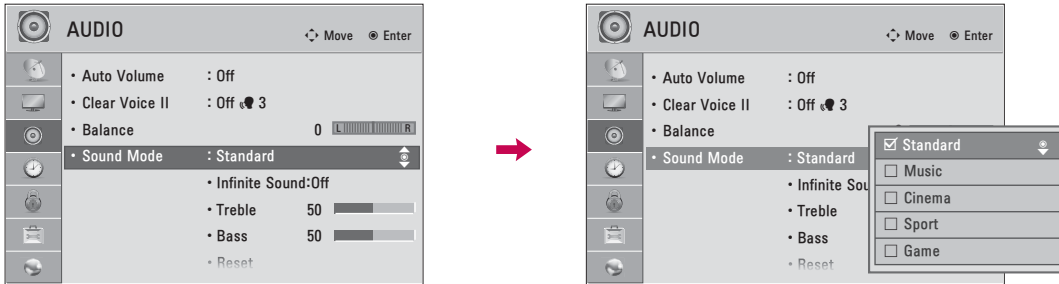
Adjust the left/right sound of speaker to suit your taste and room situations.











-   Select **AUDIO**.
-   Select **Balance**.
-   Make appropriate adjustments.
-  Return to the previous menu.
-  Return to TV viewing.

PRESET SOUND SETTINGS (SOUND MODE)

Sound Mode lets you enjoy the best sound without any special adjustment using factory presets.



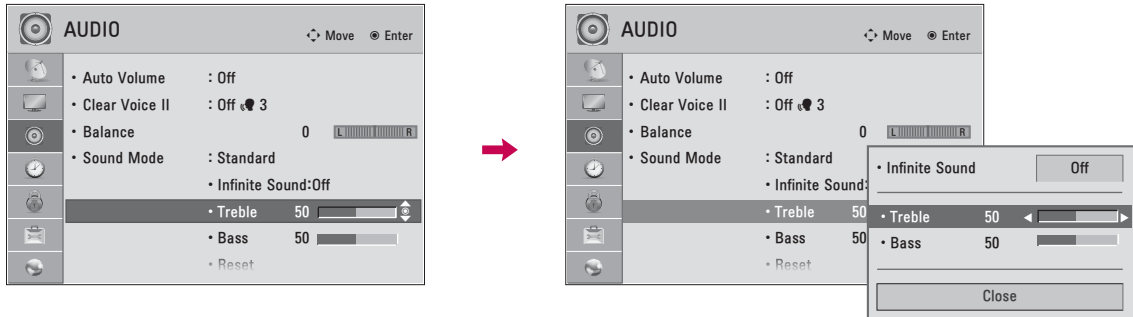
- 1   Select **AUDIO**.
- 2   Select **Sound Mode**.
- 3   Select **Standard, Music, Cinema, Sport, or Game**.
- 4  Return to the previous menu.
-  Return to TV viewing.


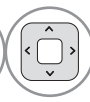

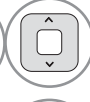

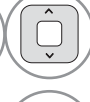






- **Standard, Music, Cinema, Sport, and Game** are preset for optimum sound quality at the factory.
- You can also adjust **Sound Mode** in the **Q.MENU**.
- **Standard**: Offers standard-quality sound.
- **Music**: Optimizes sound for listening to music.
- **Cinema**: Optimizes sound for watching movies.
- **Sport**: Optimizes sound for watching sports events.
- **Game**: Optimizes sound for playing games.

SOUND & LANGUAGE CONTROL

SOUND SETTING ADJUSTMENT - USER MODE

Adjust the sound to suit your taste and room situations.

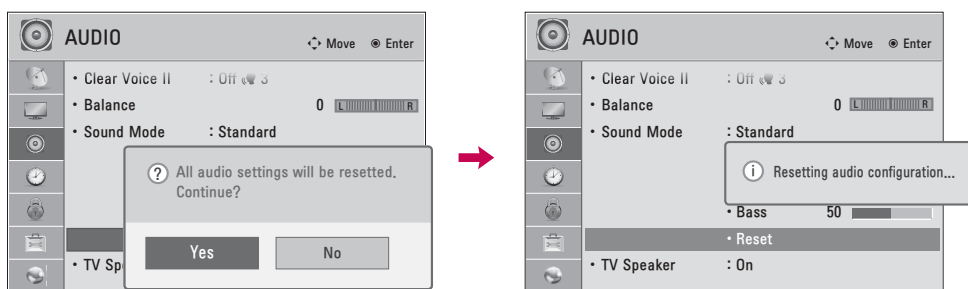










- 1   Select **AUDIO**.
- 2   Select **Sound Mode**.
- 3   Select **Standard, Music, Cinema, Sport, or Game**.
- 4   Select **Infinite Sound, Treble, or Bass**.
- 5   Make appropriate adjustments.
- 6  Return to the previous menu.
-  Return to TV viewing.

- If sound quality or volume is not at the level you want, it is recommended to use a separate home theater system or amp to cope with different user environments.
- If you select "Clear Voice II-On", the **Infinite Sound** feature will not operate.
- **Infinite Sound**: Infinite Sound is a patented LG proprietary sound processing technology that strives immersive 5.1 surround sound with just two front speakers.

AUDIO RESET

Settings of the selected Sound Mode return to the default factory settings.

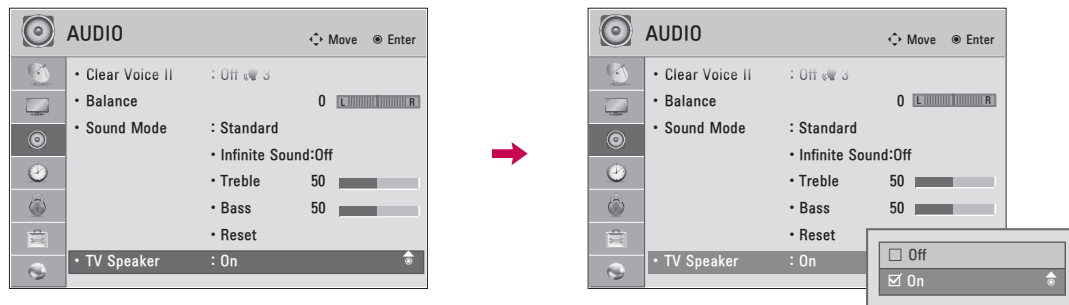









- 1   Select **AUDIO**.
- 2   Select **Reset**.
- 3   Select **Yes**.
- 4  Initialize the adjusted value.
-  Return to TV viewing.

SOUND & LANGUAGE CONTROL

TV SPEAKERS ON/OFF SETUP

If you wish to use an external Hi-Fi system, turn off the TV's internal speakers.








-   Select **AUDIO**.
-   Select **TV Speaker**.
-   Select **On** or **Off**.
-  Return to the previous menu.
-  Return to TV viewing.

STEREO/SAP BROADCAST SETUP






On analog signals, this TV can receive MTS stereo programs and any SAP (Secondary Audio Program) that accompanies the stereo program if the station transmits an additional sound signal. Mono sound is automatically used if the broadcast is only in Mono.



Analog TV

- 1   Select **SAP**.
- 2   Select **Mono, Stereo, or SAP**.
- 3  Return to TV viewing.

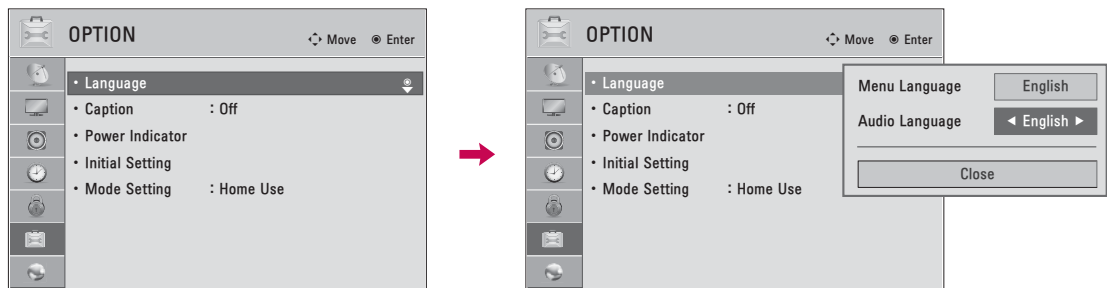
Digital TV





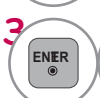

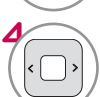


- 1   Select **Multi Audio**.
- 2   Select other languages.
- 3  Return to TV viewing.

SOUND & LANGUAGE CONTROL

AUDIO LANGUAGE

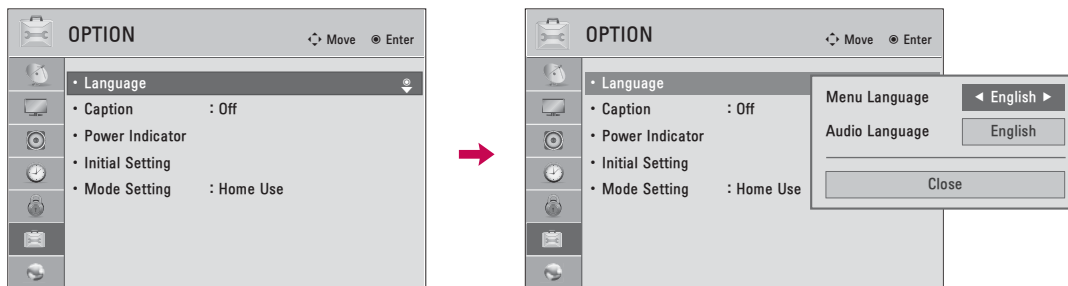
This feature operates only in DTV/Cable DTV mode.












-   Select **OPTION**.
-   Select **Language**.
-   Select **Audio Language**.
-  Select your desired language.
-  Return to the previous menu.
-  Return to TV viewing.

ON-SCREEN MENUS LANGUAGE SELECTION

The menus can be shown on the screen in the selected language.



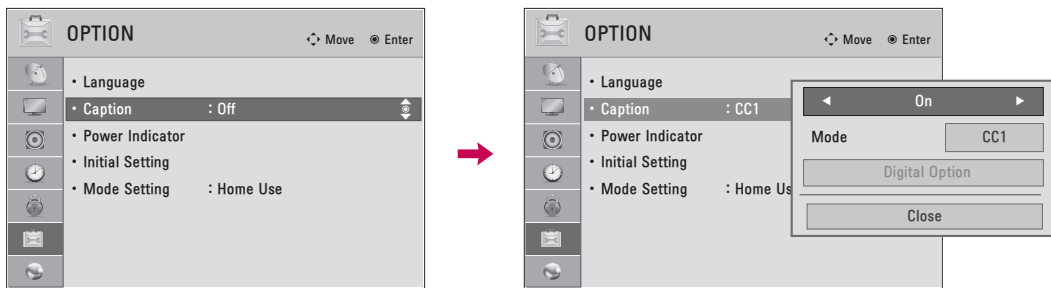
-   Select **OPTION**.
-   Select **Language**.
-   Select **Menu Language**.
-  Select your desired language.
From this point on, the on-screen menus will be shown in the selected language.
-  Return to the previous menu.
-  Return to TV viewing.


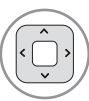


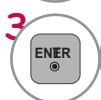





SOUND & LANGUAGE CONTROL

CAPTION MODE

Analog Broadcasting System Captions

Captions are provided to help the hearing impaired watch TV. Select a caption mode for displaying captioning information if provided on a program. Analog caption displays information at any position on the screen and is usually the program's dialog. Caption/Text, if provided by the broadcaster, would be available for both digital and analog channels on the Antenna/Cable. This TV is programmed to memorize the caption/text mode which was last set when you turned the power off. This function is only available when **Caption Mode** is set **On**.



- 1   Select **OPTION**.
- 2   Select **Caption**.
- 3   Select **On**.
- 4   Select **CC1-4** or **Text1-4**.
- 5  Return to the previous menu.
-  Return to TV viewing.

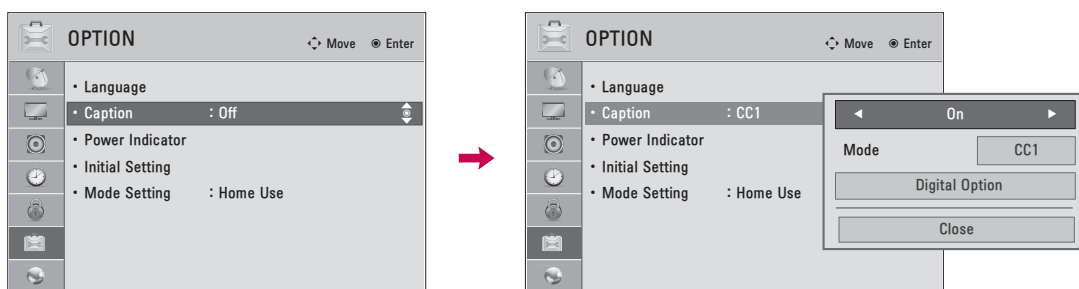
- When selecting **Off**, Sub-menus for Analog, DTV, and Digital Option become disabled.
- **Caption**
The term for the words that scroll across the bottom of the TV screen; usually the audio portion of the program provided for the hearing impaired.
- **Text**
The term for the words that appear in a large black frame and almost cover the entire screen; usually messages provided by the broadcaster.










Digital Broadcasting System Captions

Choose the language you want the DTV/Cable DTV Captions to appear in.

Other Languages can be chosen for digital sources only if they are included on the program.

This function is only available when **Caption Mode** is set **On**.

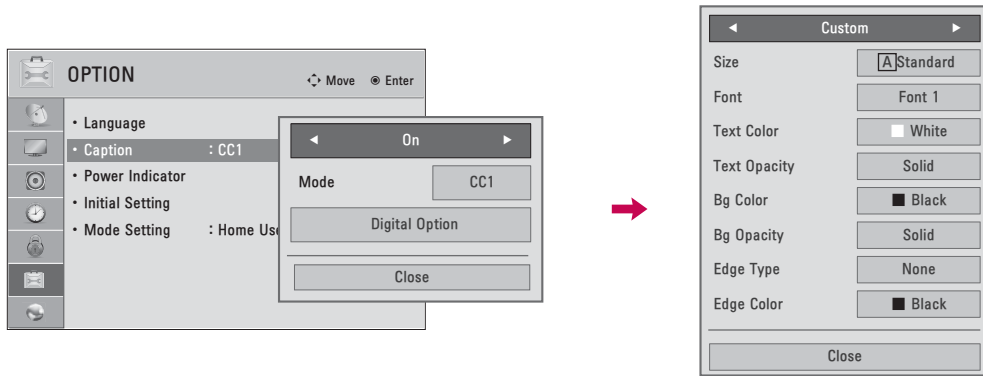


- 1   Select **OPTION**.
- 2   Select **Caption**.
- 3   Select **On**.
- 4   Select **CC1-4, Text1-4, or Service1 - 6**.
- 5  Return to the previous menu.
-  Return to TV viewing.

SOUND & LANGUAGE CONTROL

Caption Option

Customize the DTV/Cable DTV captions that appear on your screen.
This function is only available when **Caption Mode** is set **On**.



1 Select **OPTION**.

2 Select **Caption**.

3 Select **On**.

4 Select **Digital Option**.

5 Select **Custom**.

6 Customize the **Size**, **Font**, etc., to your preference. A preview icon is provided at the bottom of the screen, use it to see the caption language.

7 Return to the previous menu.

Return to TV viewing.

- **Size:** Set the word size.
- **Font:** Select a typeface for the text.
- **Text Color:** Choose a color for the text.
- **Text Opacity:** Specify the opacity for the text color.
- **Bg (Background) Color:** Select a background color.
- **Bg (Background) Opacity:** Select the opacity for the background color.
- **Edge Type:** Select an edge type.
- **Edge Color:** Select a color for the edges.

TIME SETTING

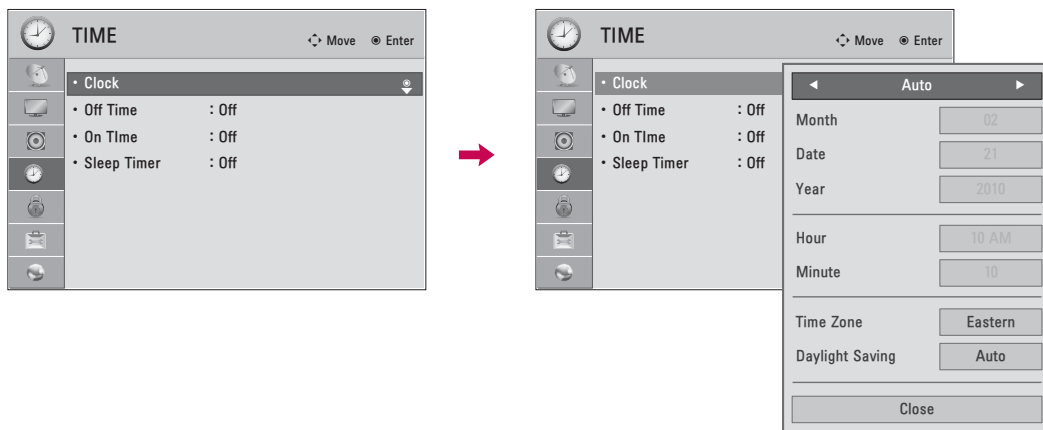
CLOCK SETTING













Auto Clock Setup

The time is set automatically from a digital channel signal.

The digital channel signal includes information for the current time provided by the broadcasting station.

Set the clock manually if the current time is set incorrectly by the auto clock function.

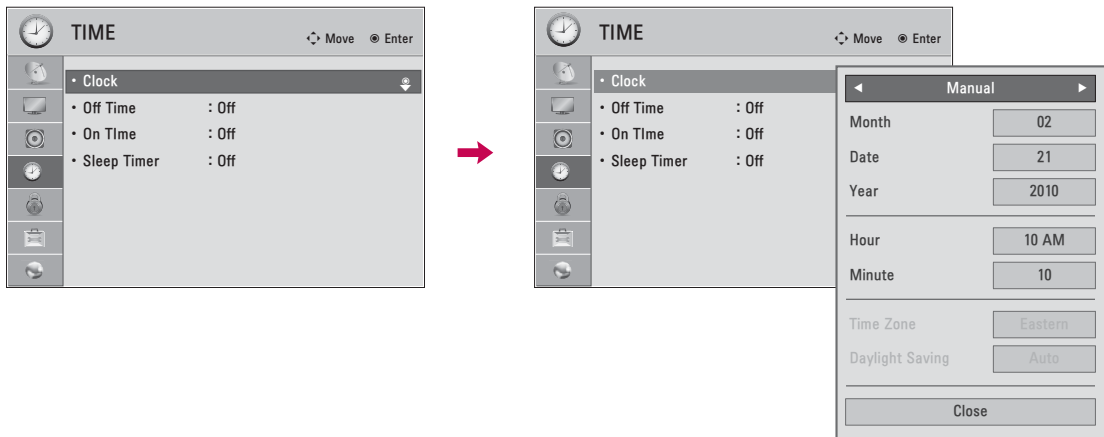












-   Select **TIME**.
-   Select **Clock**.
-   Select **Auto**.
-   Select your viewing area time zone.
USA: Eastern, Central, Mountain, Pacific, Alaska, or Hawaii.
Canada: Eastern, Central, Mountain, Pacific, New Foundland, or Atlantic.
-   Select **Auto**, **Off**, or **On** (depending on whether or not your viewing area observes Daylight Saving time).
-  Return to the previous menu.
-  Return to TV viewing.

TIME SETTING

Manual Clock Setup

If the current time setting is wrong, reset the clock manually.



-   Select **TIME**.
-   Select **Clock**.
-   Select **Manual**.
-  Select the Year, Month, Date, Hour, or Minute option.
-  Set the Year, Month, Date, Hour, or Minute option.
-  Return to the previous menu.
-  Return to TV viewing.

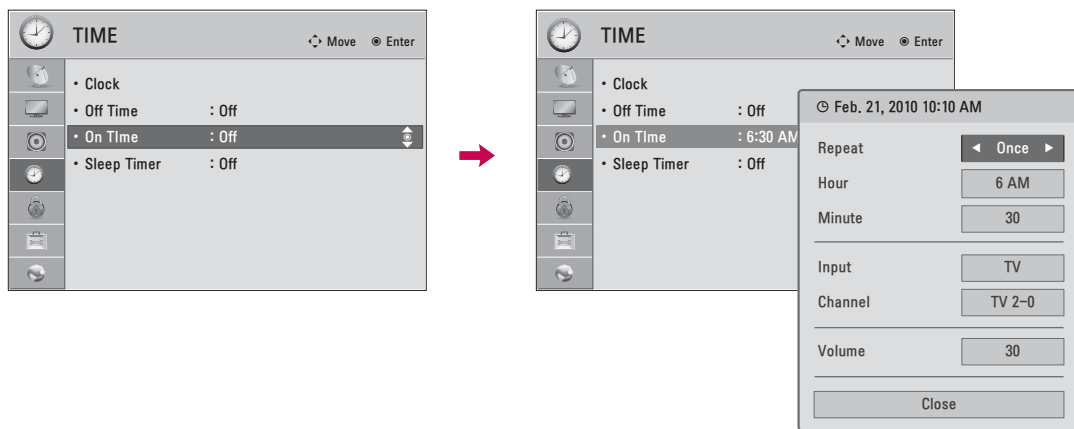
AUTO ON/OFF TIME SETTING

This function operates only if the current time has been set.

The **Off Time** function overrides the **On Time** function if they are both set to the same time.

The TV must be in standby mode for the **On Time** to work.

If you do not press any button within 2 hours after the TV turns on with the **On Time** function, the TV will automatically revert to standby mode.



- 1 Select **TIME**.
- 2 Select **Off Time** or **On Time**.
- 3 Select **Repeat**.
- 4 Select **Off, Once, Daily, Mon.~Fri., Mon.~Sat., Sat.~ Sun., or Sun..**
- 5 Select and set Hour or Minute.
- 6 Return to the previous menu.
- Return to TV viewing.

- To cancel **On/Off Time** function, select **Off**.

- Only for **On Time** function

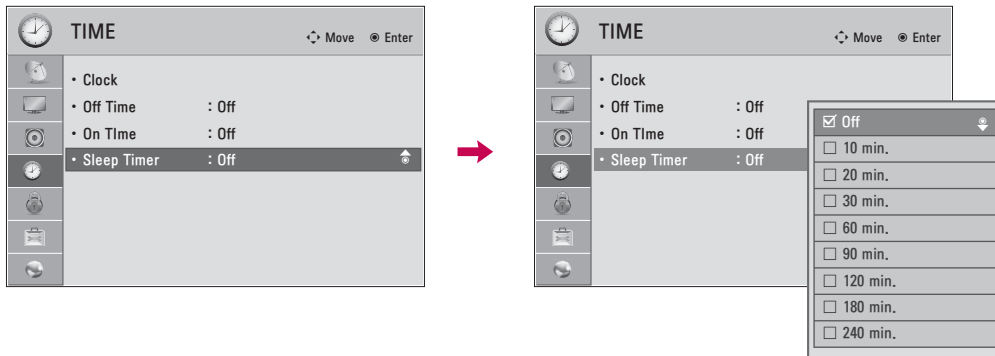
- 1 Select **Input**.
- 2 Select the desired input source.
- 3 When Selecting **TV**: set the channel at turn-on.
- 4 Adjust to sound level at turn-on.






TIME SETTING

SLEEP TIMER SETTING

The Sleep Timer turns the TV off at the preset time.

Note that this setting is cleared when the TV is turned off.



- 1   Select **TIME**.
- 2   Select **Sleep Timer**.
- 3   Make appropriate adjustments.
- 4  Return to the previous menu.
-  Return to TV viewing.

- To cancel the **Sleep Timer**, select **Off**.
- You can also adjust **Sleep Timer** in the **Q.MENU**.

PARENTAL CONTROL / RATINGS

Parental Control can be used to block specific channels, ratings and other viewing sources.

The Parental Control Function (V-Chip) is used to block program viewing based on the ratings sent by the broadcasting station. The default setting is to allow all programs to be viewed. Viewing can be blocked by choosing the type of the program and the categories. It is also possible to block all program viewing for a time period. To use this function, the following must be done :

1. Set ratings and categories to be blocked.
2. Specify a password
3. Enable the lock

V-Chip rating and categories

Rating guidelines are provided by broadcasting stations. Most television programs and television movies can be blocked by TV Rating and/or Individual Categories. Movies that have been shown at the theaters or direct-to-video movies use the Movie Rating System (MPAA) only.

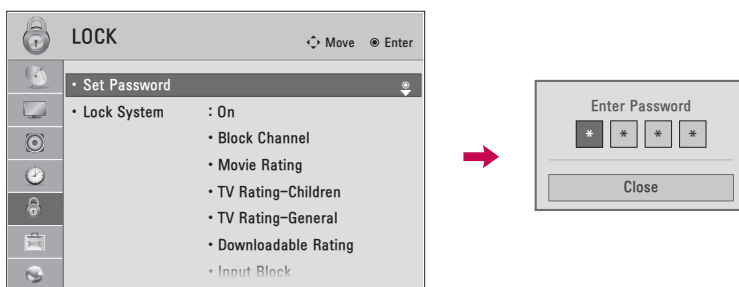
Ratings for Television programs including made-for-TV movies:





- TV-G (General audience)
- TV-PG (Parental guidance suggested)
- TV-14 (Parents strongly cautioned)
- TV-MA (Mature audience only)
- TV-Y (All children)
- TV-Y7 (Children 7 years older)

SET PASSWORD & LOCK SYSTEM

Setting up Your Password

Set up blocking schemes to block specific channels, ratings, and external viewing sources. A password is required to gain access to this menu.



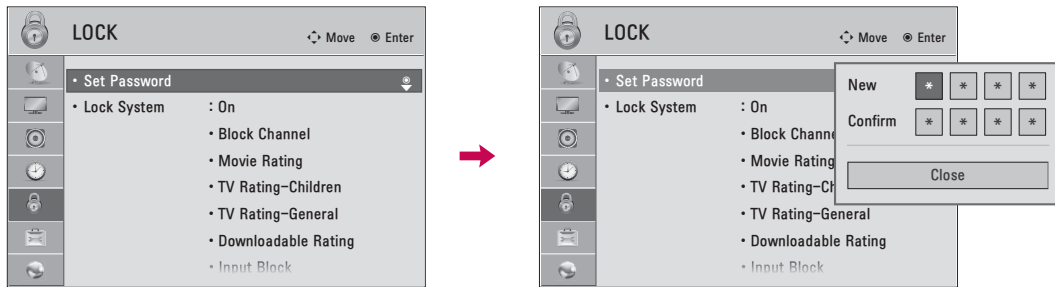
1.    Select **LOCK**.
2.  Input the password.




- Enter the password as requested.
- The TV is set up with the initial password "0-0-0-0".
- If you forget your password, press "0-3-2-5" on the remote control.


PARENTAL CONTROL / RATINGS

Set Password



Change the password by inputting a new password twice.





1    Select **LOCK**.

2  Input the password.

3  Select **Set Password**.

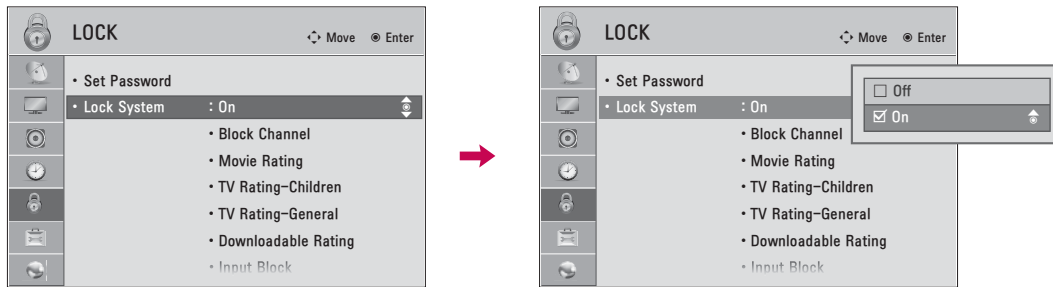
4   Choose any 4 digits for your new password.
As soon as the 4 digits are entered, re-enter the same 4 digits on the **Confirm**.




5  Return to the previous menu.


 Return to TV viewing.

Lock System

Enables or disables the blocking scheme you set up previously.




1    Select **LOCK**.

2  Input the password.

3  Select **Lock System**.

4   Select **On** or **Off**.

5  Return to the previous menu.

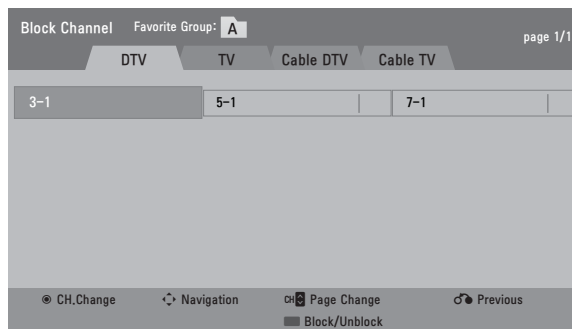
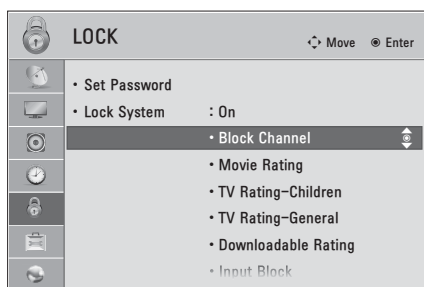
 Return to TV viewing.


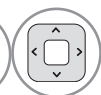

■ When you select **On**, the Lock System is enable.


PARENTAL CONTROL / RATINGS

CHANNEL BLOCKING



Blocks any channels that you do not want to watch or that you do not want your children to watch.





1    Select **LOCK**.


2  Input the password.

3  Select **Block Channel**.

4   Select a channel to block or unblock.

5  Block or unblock a channel.

6  Return to the previous menu.

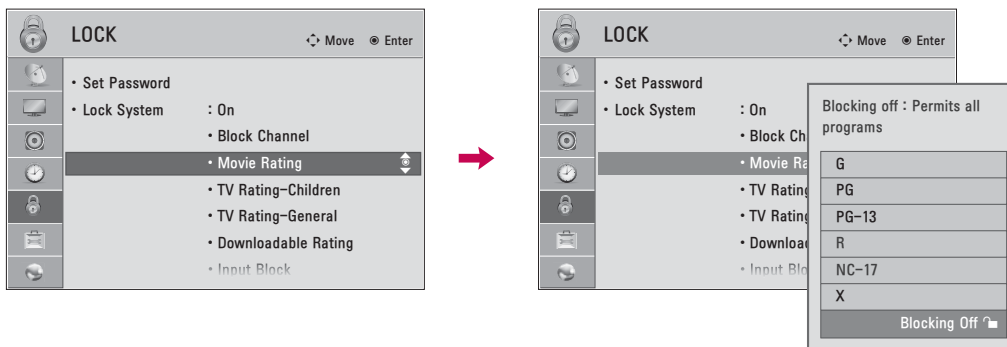
 Return to TV viewing.

■ If a channel is locked, enter the password to unlock it temporarily.

MOVIE & TV RATING

Movie Rating (MPAA)- For USA

Blocks movies according to the movie ratings limits specified, so children cannot view certain movies. You can set the ratings limit by blocking out all the movies with the ratings above a specified level. Keep in mind that the movie ratings limit only applies to movies shown on TV, not TV programs, such as soap operas.



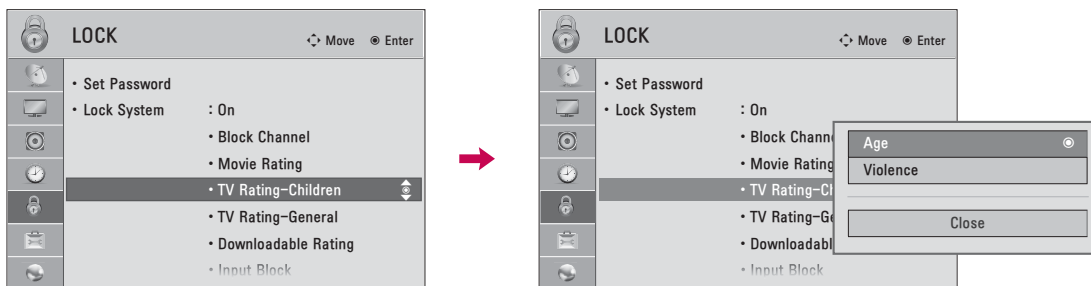
- 1 Select **LOCK**.
- 2 Input the password.
- 3 Select **Movie Rating**.
- 4 Select **G, PG, PG-13, R, NC-17, X, or Blocking Off**.
- 5 Return to the previous menu.
- Return to TV viewing.




- If **Movie Rating, TV Rating-Children** or **TV Rating-General** is locked, enter the password to unlock it temporarily.
- **G** (General audience)
- **PG** (Parental guidance suggested)
- **PG-13** (Parents strongly cautioned)
- **R** (Restricted)
- **NC-17** (No one 17 and under admitted)
- **X** (Adult only)
- **Blocking Off** (Permits all programs)
- If you set PG-13: G and PG movies will be available, PG-13, R, NC-17 and X will be blocked.


PARENTAL CONTROL / RATINGS

TV Rating Children - For USA

Prevents children from watching certain children's TV programs, according to the ratings limit set. The children rating does not apply to other TV programs. Unless you block certain TV programs intended for mature audiences in the TV Rating - sub menu, your children can view those programs.




1    Select **LOCK**.


2  Input the password.

3  Select **TV Rating-Children**.

4   Select **Age** or **Fantasy Violence**.

5   Select block options.

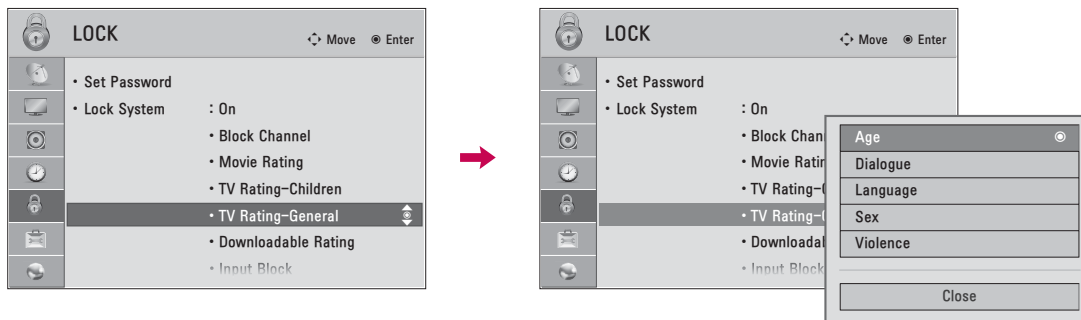
6  Return to the previous menu.

 Return to TV viewing.

- **Age** (applies to TV-Y, TV-Y7)
- **Fantasy Violence** (applies to TV-Y7)

TV Rating General - For USA

Based on the ratings, blocks certain TV programs that you and your family do not want to view.



1 Select **LOCK**.

2 Input the password.

3 Select **TV Rating-General**.

4 Select **Age, Dialogue, Language, Sex** or **Violence**.

5 Select block options.

6 Return to the previous menu.

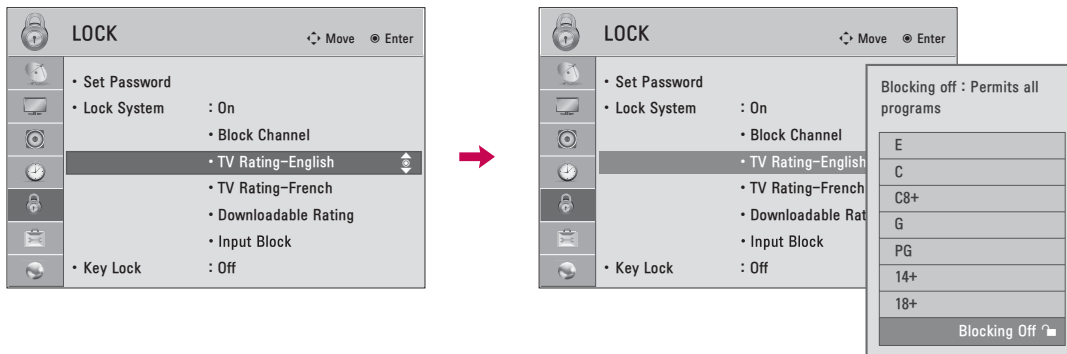
Return to TV viewing.

- **Age** (applies to TV-G,TV-PG,TV-14,TV-MA).
- **Dialogue**-sexual dialogue (applies to TV-PG,TV-14).
- **Language**-adult language (applies to TV-PG, TV-14, TV-MA).
- **Sex**-sexual situations (applies to TV-PG, TV-14, TV-MA).
- **Violence** (applies to TV-PG, TV-14, TV-MA).

PARENTAL CONTROL / RATINGS

TV Rating English - For CANADA

Selecting Canadian English rating system.

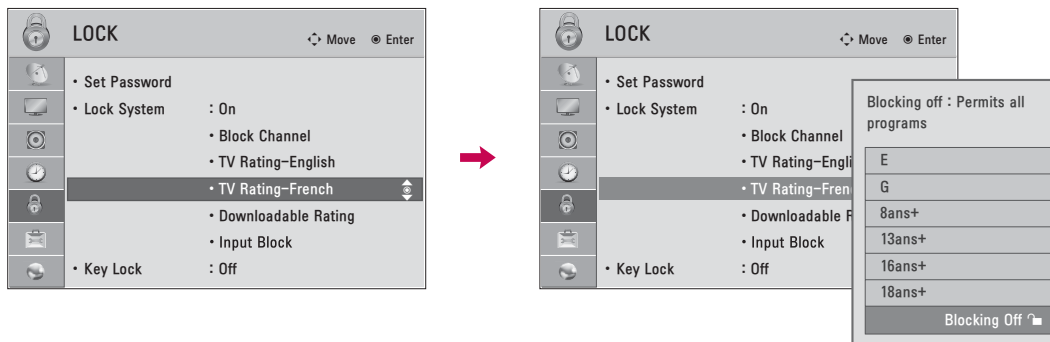


- 1 Select **LOCK**.
- 2 Input the password.
- 3 Select **TV Rating-English**.
- 4 Select **E, C, C8+, G, PG, 14+, 18+, or Blocking Off**.
- 5 Return to the previous menu.
- Return to TV viewing.

- If TV Rating-English or TV Rating-French is locked, enter the password to unlock it temporarily.
- **E** (Exempt)
- **C** (Children)
- **C8+** (Children eight years and older)
- **G** (General programming, suitable for all audiences)
- **PG** (Parental Guidance)
- **14+** (Viewers 14 years and older)
- **18+** (Adult programming)
- **Blocking Off** (Permits all programs)

TV Rating French - For CANADA

Selecting Canadian French rating system.



1 Select **LOCK**.

2 Input the password.

3 Select **TV Rating-French**.

4 Select **E, G, 8ans+, 13ans+, 16ans+, 18ans+,** or **Blocking Off**.

5 Return to the previous menu.

Return to TV viewing.

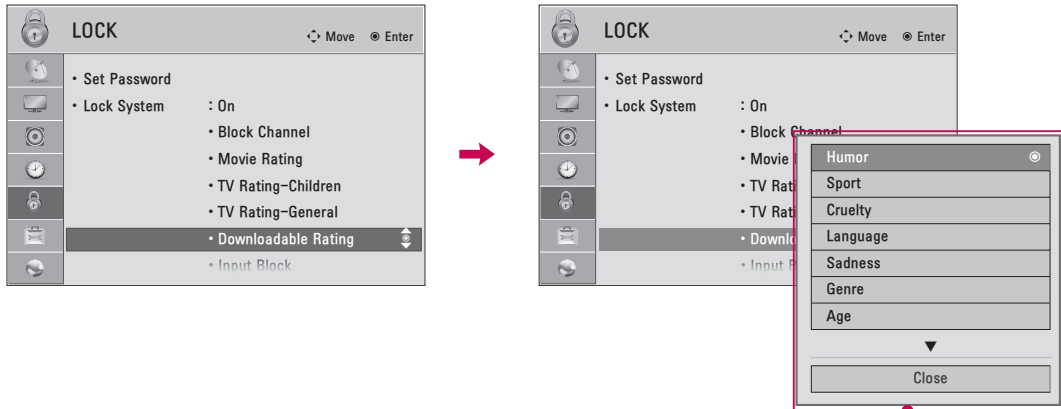
- **E** (Exempt)
- **G** (General)
- **8ans+** (General-Not convenient for little children)
- **13ans+** (Not convenient for children of 13 years and younger)
- **16ans+** (Not convenient for children of 16 years and younger)
- **18ans+** (This programs is only for adults)
- **Blocking Off** (Permits all programs)

PARENTAL CONTROL / RATINGS












DOWNLOADABLE RATING

This function is available only for digital channels.

This function operates only when TV has received Region5 Rating data.



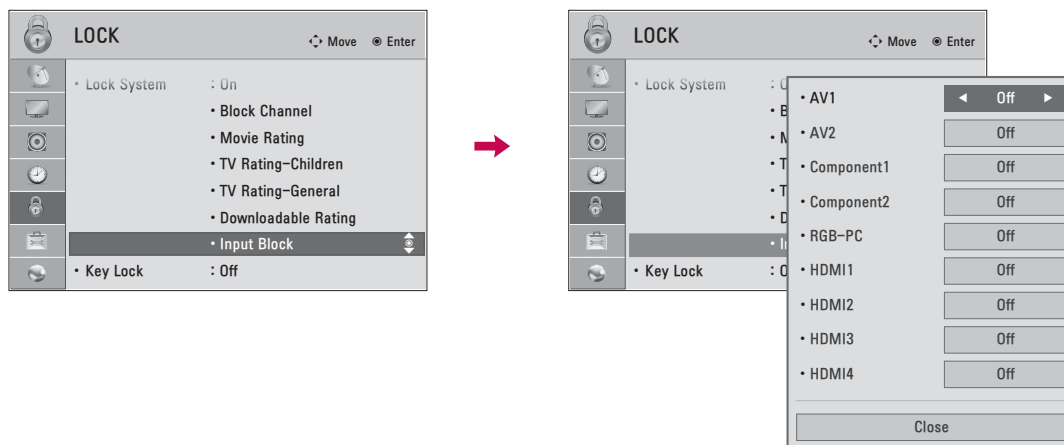
■ Based on rating table, your TV's OSD (On Screen Display) may differ slightly from what is shown in this manual.

- 1    Select **LOCK**.
- 2  Input the password.
- 3  Select **Downloadable Rating**.
- 4   Select desired **Downloadable Rating** option.
- 5   Select desired option and block it.
- 6  Return to the previous menu.
-  Return to TV viewing.

■ If a Downloadable rating is locked, enter the password to unlock it temporarily.

EXTERNAL INPUT BLOCKING

Enables you to block an input.



1 Select **LOCK**.

2 Input the password.

3 Select **Input Block**.

4 Select input source.

5 Select **On** or **Off**.

6 Return to the previous menu.

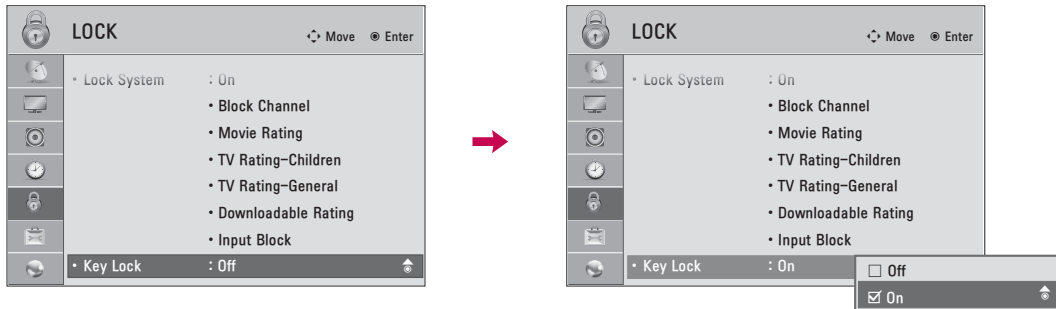
Return to TV viewing.




PARENTAL CONTROL / RATINGS


KEY LOCK

This feature can be used to prevent unauthorized viewing by locking out the front panel controls, so that it can only be used with the remote control.

This TV is programmed to remember which option it was last set to even if you turn the TV off.





1    Select **LOCK**.









2  Input the password.

3  Select **Key Lock**.

4   Select **On** or **Off**.

5  Return to the previous menu.

 Return to TV viewing.

- In Key Lock 'On', if the TV is turned off, press the  / **I**, **INPUT, CH** (  or  ) button on the TV or **POWER**, **INPUT, CH** ( ) or **NUMBER** buttons on the remote control.
- With the **Key Lock On**, the display ' **Key Lock**' appears on the screen if any button on the front panel is pressed while viewing the TV.

APPENDIX

TROUBLESHOOTING

Abnormal Operation	
The remote control doesn't work	<ul style="list-style-type: none"> Check to see if there is any object between the product and the remote control causing obstruction. Ensure you are pointing the remote control directly at the TV. Ensure that the batteries are installed with correct polarity (+ to +, - to -). Ensure that the correct remote operating mode is set: TV, VCR etc. Install new batteries. <small>*This feature is not available for all models.</small>
TV turns off suddenly	<ul style="list-style-type: none"> Is the sleep timer set? Check the power control settings. Power interrupted. If there is no signal, the TV turns off automatically in 15 minutes.

Video Problems	
No picture & No sound	<ul style="list-style-type: none"> Check whether the product is turned on. Try another channel. The problem may be with the broadcast. Is the power cord inserted into wall power outlet? Check your antenna direction and/or location. Test the wall power outlet, plug another product's power cord into the outlet where the product's power cord was plugged in.
Picture appears slowly after switching on	<ul style="list-style-type: none"> This is normal, the image is muted during the product startup process. Please contact your service center, if the picture has not appeared after five minutes.
No or poor color or poor picture	<ul style="list-style-type: none"> Adjust Color in menu option. Keep a sufficient distance between the product and the VCR. Try another channel. The problem may be with the broadcast. Are the video cables installed properly? Activate any function to restore the brightness of the picture.
Horizontal/vertical bars or picture shaking	<ul style="list-style-type: none"> Check for local interference such as an electrical appliance or power tool.
Poor reception on some channels	<ul style="list-style-type: none"> Station or cable product experiencing problems, tune to another station. Station signal is weak, reorient antenna to receive weaker station. Check for sources of possible interference.
Lines or streaks in pictures	<ul style="list-style-type: none"> Check antenna (Change the direction of the antenna).
No picture when connecting HDMI	<ul style="list-style-type: none"> Check HDMI cable over version 1.3. The HDMI cables don't support HDMI version 1.3, it cause flickers or no screen display. In this case use the latest cables that support HDMI version 1.3.

APPENDIX

Audio Problems	
No output from one of the speakers	<ul style="list-style-type: none"> Adjust Balance in menu option.
Unusual sound from inside the product	<ul style="list-style-type: none"> A change in ambient humidity or temperature may result in an unusual noise when the product is turned on or off and does not indicate a fault with the product.
No sound when connecting HDMI/USB	<ul style="list-style-type: none"> Check HDMI cable over version 1.3. Check USB cable over version 2.0. Use normal MP3 file. <small>*This feature is not available for all models.</small>

PC Mode Problems	
The signal is out of range	<ul style="list-style-type: none"> Adjust resolution, horizontal frequency, or vertical frequency on the PC. Check the input source.
Vertical bar or stripe on background & Horizontal Noise & Incorrect position	<ul style="list-style-type: none"> Activate the Auto configure feature or adjust size, phase, or H/V position. (Option)
Screen color is unstable or single color	<ul style="list-style-type: none"> Check the signal cable. Reinstall the PC video card.
When connecting the HDMI cable to the PC, there is no audio.	<ul style="list-style-type: none"> Check the manual for the video card in the PC to see if it supports HDMI audio and how to set it up properly.

Movie List Problems

<p>The file does not appear on the Movie List.</p>	<ul style="list-style-type: none"> ■ Check whether the file extension is supported.
<p>Message is displayed saying "This file is invalid" or the audio is working normally but the video is not working normally.</p>	<ul style="list-style-type: none"> ■ Check whether the file is playing normally on a PC. (Check whether the file is damaged.) ■ Check whether the resolution is supported. ■ Check whether the video/audio codec is supported. ■ Check whether the frame rate is supported.
<p>Message is displayed saying "Unsupported Audio" or the video is working normally but the audio is not working normally.</p>	<ul style="list-style-type: none"> ■ Check whether the file is playing normally on a PC. (Check whether the file is damaged.) ■ Check whether the audio codec is supported. ■ Check whether the bit rate is supported. ■ Check whether the sample rate is supported.
<p>Subtitle is not working.</p>	<ul style="list-style-type: none"> ■ Check whether the file is playing normally on a PC. (Check whether the file is damaged.) ■ Check whether the video file and subtitle file name are the same. ■ Check whether the video file and subtitle file are located in the same folder. ■ Check whether the subtitle file is supported. ■ Check whether the language is supported. (When you open the subtitle file on a PC, you can check the language of the subtitle file.)

APPENDIX

MAINTENANCE

Early malfunctions can be prevented. Careful and regular cleaning can extend the amount of time you can enjoy your new TV.

Caution: Be sure to turn the power off and unplug the power cord before you begin any cleaning.

Cleaning the Screen

- 1 Here's a great way to keep the dust off your screen for a while. Wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen.
- 2 Make sure the excess water is off the screen, and then let it air-dry before you turn on your TV.

Cleaning the Cabinet

- To remove dirt or dust, wipe the cabinet with a soft, dry, lint-free cloth.
- Please be sure not to use a wet cloth.

Extended Absence

CAUTION

- ▶ If you expect to leave your TV dormant for a long time (such as a vacation), it's a good idea to unplug the power cord to protect against possible damage from lightning or power surges.

PRODUCT SPECIFICATIONS

MODELS		32LD550 (32LD550-UB)	42LD550 (42LD550-UB)
Dimensions (Width x Height x Depth)	With stand	800.0 mm x 563.0 mm x 207.0 mm (31.5 inch x 22.2 inch x 8.1 inch)	1024.0 mm x 695.0 mm x 261.0 mm (40.3 inch x 27.4 inch x 10.3 inch)
	Without stand	800.0 mm x 503.0 mm x 74.7 mm (31.5 inch x 19.8 inch x 2.9 inch)	1024.0 mm x 632.0 mm x 78.7 mm (40.3 inch x 24.9 inch x 3.1 inch)
Weight	With stand	10.2 kg (22.4 lbs)	15.4 kg (33.9 lbs)
	Without stand	9.2 kg (20.2 lbs)	13.8 kg (30.4 lbs)

MODELS		46LD550 (46LD550-UB)	52LD550 (52LD550-UB)
Dimensions (Width x Height x Depth)	With stand	1115.0 mm x 752.0 mm x 270.0 mm (43.9 inch x 29.6 inch x 10.6 inch)	1266.0 mm x 851.0 mm x 330.0 mm (49.8 inch x 33.5 inch x 13.0 inch)
	Without stand	1115.0 mm x 680.0 mm x 77.0 mm (43.9 inch x 26.8 inch x 3.0 inch)	1266.0 mm x 745.0 mm x 96.4 mm (49.8 inch x 29.3 inch x 3.8 inch)
Weight	With stand	18.6 kg (41.0 lbs)	26.9 kg (59.3 lbs)
	Without stand	16.6 kg (36.5 lbs)	23.6 kg (52.0 lbs)

MODELS		60LD550 (60LD550-UB)
Dimensions (Width x Height x Depth)	With stand	1441.0 mm x 963.0 mm x 345.0 mm (56.7 inch x 37.9 inch x 13.6 inch)
	Without stand	1441.0 mm x 877.0 mm x 109.0 mm (56.7 inch x 34.5 inch x 4.3 inch)
Weight	With stand	40.0 kg (88.1 lbs)
	Without stand	35.7 kg (78.7 lbs)

Power requirement	AC 100-240 V ~ 50 / 60 Hz	
Television System	NTSC-M, ATSC, 64 & 256 QAM	
Program Coverage	VHF 2-13, UHF 14-69, CATV 1-135, DTV 2-69, CADTV 1-135	
External Antenna Impedance	75 Ω	
Environment condition	Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
	Operating Humidity	Less than 80 %
	Storage Temperature	-20 °C to 60 °C (-4 °F to 140 °F)
	Storage Humidity	Less than 85 %

■ The specifications shown above may be changed without prior notice for quality improvement.

APPENDIX

MODELS		47LD650 (47LD650-UA)	55LD650 (55LD650-UA)
Dimensions (Width x Height x Depth)	With stand	1137.0 mm x 758.0 x 270.0 mm (44.7 inch x 29.8 inch x 10.6 inch)	1329.0 mm x 872.0 mm x 330.0 mm (52.3 inch x 34.3 inch x 12.9 inch)
	Without stand	1137.0 mm x 685.0 mm x 76.8 mm (44.7 inch x 26.9 inch x 3.0 inch)	1329.0 mm x 796.0 mm x 96.5 mm (52.3 inch x 31.3 inch x 3.7 inch)
Weight	With stand	20.3 kg (44.7 lbs)	33.0 kg (72.7 lbs)
	Without stand	18.3 kg (40.3 lbs)	28.8 kg (63.4 lbs)

Power requirement	AC 100-240 V ~ 50 / 60 Hz	
Television System	NTSC-M, ATSC, 64 & 256 QAM	
Program Coverage	VHF 2-13, UHF 14-69, CATV 1-135, DTV 2-69, CADTV 1-135	
External Antenna Impedance	75 Ω	
Environment condition	Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
	Operating Humidity	Less than 80 %
	Storage Temperature	-20 °C to 60 °C (-4 °F to 140 °F)
	Storage Humidity	Less than 85 %

- The specifications shown above may be changed without prior notice for quality improvement.

MODELS		50R750 (50PK750-UA, 50PK750-UF)	60R750 (60PK750-UA, 60PK750-UF)
Dimensions (Width x Height x Depth)	With stand	1184.0 mm X 801.0 mm X 309.7 mm (46.6 inch x 31.5 inch x 12.1 inch)	1402.8 mm X 935.3 mm X 383.9mm (55.2 inch x 36.8 inch x 15.1 inch)
	Without stand	1184.0 mm X 738.5 mm X 52.4 mm (46.6 inch x 29.0 inch x 2.0 inch)	1402.8 mm X 866.8 mm X 52.4mm (55.2 inch x 34.1 inch x 2.0 inch)
Weight	With stand	32.3 kg (71.2 lbs)	47.2 kg (104.0 lbs)
	Without stand	29.9 kg (65.9 lbs)	42.7 kg (94.1 lbs)

MODELS		50R950 (50PK950-UA, 50PK940-UF)	60R950 (60PK950-UA, 60PK940-UF)
Dimensions (Width x Height x Depth)	With stand	1190.0 mm x 804.5 mm x 294.5 mm	1408.8 mm x 937.9 mm x 384.0 mm
	Without stand	1190.0 mm x 737.0 mm x 52.4 mm	1408.8 mm x 860.7 mm x 52.4 mm
Weight	With stand	34.8 kg	50.9 kg
	Without stand	30.2 kg	43.3 kg

Power requirement	AC 100-240 V ~ 50 / 60 Hz	
Television System	NTSC-M, ATSC, 64 & 256 QAM	
Program Coverage	VHF 2-13, UHF 14-69, CATV 1-135, DTV 2-69, CADTV 1-135	
External Antenna Impedance	75 Ω	
Environment condition	Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
	Operating Humidity	Less than 80 %
	Storage Temperature	-20 °C to 60 °C (-4 °F to 140 °F)
	Storage Humidity	Less than 85 %

- The specifications shown above may be changed without prior notice for quality improvement.

APPENDIX

MODELS		42LE5400 (42LE5400-UC)	47LE5400 (47LE5400-UC)
		42LE5500 (42LE5500-UA)	47LE5500 (47LE5500-UA)
Dimensions (Width x Height x Depth)	With stand	1016.0 mm x 692.0 mm x 270.0 mm (40.0 inch x 27.2 inch x 10.6 inch)	1126.6 mm x 757.9 mm x 284.4 mm (44.3 inch x 29.8 inch x 11.1 inch)
	Without stand	1016.0 mm x 630.0 mm x 29.3 mm (40.0 inch x 24.8 inch x 1.1 inch)	1126.6 mm x 692.0 mm x 29.3 mm (44.3 inch x 27.2 inch x 1.1 inch)
Weight	With stand	19.5 kg (42.9 lbs)	22.9 kg (50.4 lbs)
	Without stand	16.7 kg (36.8 lbs)	19.6 kg (43.2 lbs)

MODELS		55LE5400 (55LE5400-UC)
		55LE5500 (55LE5500-UA)
Dimensions (Width x Height x Depth)	With stand	1306.0 mm x 867.0 mm x 345.0 mm (51.4 inch x 34.1 inch x 13.5 inch)
	Without stand	1306.0 mm x 797.0 mm x 30.7 mm (51.4 inch x 31.3 inch x 1.2 inch)
Weight	With stand	34.5 kg (76.0 lbs)
	Without stand	28.8 kg (63.4 lbs)

Power requirement	AC 120 V ~ 50 / 60 Hz	
Television System	NTSC-M, ATSC, 64 & 256 QAM	
Program Coverage	VHF 2-13, UHF 14-69, CATV 1-135, DTV 2-69, CADTV 1-135	
External Antenna Impedance	75 Ω	
Environment condition	Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
	Operating Humidity	Less than 80 %
	Storage Temperature	-20 °C to 60 °C (-4 °F to 140 °F)
	Storage Humidity	Less than 85 %

- The specifications shown above may be changed without prior notice for quality improvement.

MODELS		42LE7500 (42LE7500-UC)	47LE7500 (47LE7500-UC)
Dimensions (Width x Height x Depth)	With stand	1018.2 mm x 693.5 mm x 269.8 mm (40.0 inch x 27.3 inch x 10.6 inch)	1128.6 mm x 758.9 mm x 284.4 mm (44.4 inch x 29.8 inch x 11.1 inch)
	Without stand	1018.2 mm x 630.7 mm x 29.3 mm (40.0 inch x 24.8 inch x 1.1 inch)	1128.6 mm x 693.3 mm x 29.8 mm (44.4 inch x 27.2 inch x 1.1 inch)
Weight	With stand	21.9 kg (48.2 lbs)	26.2 kg (57.7 lbs)
	Without stand	19.1 kg (42.1 lbs)	23.0 kg (50.7 lbs)

MODELS		55LE7500 (55LE7500-UC)
Dimensions (Width x Height x Depth)	With stand	1306.0 mm x 869.0 mm x 328.0 mm (51.4 inch x 34.2 inch x 12.9 inch)
	Without stand	1306.0 mm x 797.4 mm x 31.2 mm (51.4 inch x 31.3 inch x 1.2 inch)
Weight	With stand	39.1 kg (86.1 lbs)
	Without stand	33.5 kg (73.8 lbs)

MODELS		47LE8500 (47LE8500-UA)	55LE8500 (55LE8500-UA)
Dimensions (Width x Height x Depth)	With stand	1122.6 mm x 769.3 mm x 275.0 mm (44.1 inch x 30.2 inch x 10.8 inch)	1292.6 mm x 875.4 mm x 311.9 mm (50.8 inch x 34.4 inch x 12.2 inch)
	Without stand	1122.6 mm x 707.3 mm x 34.5 mm (44.1 inch x 27.8 inch x 1.3 inch)	1292.6 mm x 802.9 mm x 34.5 mm (50.8 inch x 31.6 inch x 1.3 inch)
Weight	With stand	31.6 kg (69.6 lbs)	43.8 kg (96.5 lbs)
	Without stand	26.9 kg (59.3 lbs)	35.8 kg (78.9 lbs)

Power requirement	AC 120 V ~ 50 / 60 Hz	
Television System	NTSC-M, ATSC, 64 & 256 QAM	
Program Coverage	VHF 2-13, UHF 14-69, CATV 1-135, DTV 2-69, CADTV 1-135	
External Antenna Impedance	75 Ω	
Environment condition	Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
	Operating Humidity	Less than 80 %
	Storage Temperature	-20 °C to 60 °C (-4 °F to 140 °F)
	Storage Humidity	Less than 85 %

■ The specifications shown above may be changed without prior notice for quality improvement.

APPENDIX

IR CODES

*This feature is not available for all models.

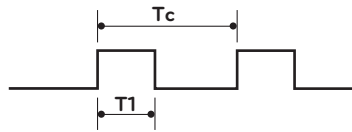
1. How to Connect

- Connect your wired remote control to the Remote Control port on the TV.

2. Remote Control IR Codes

■ Output waveform

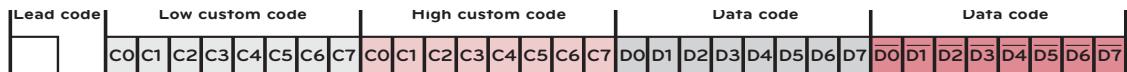
Single pulse, modulated with 37.917 KHz signal at 455 KHz



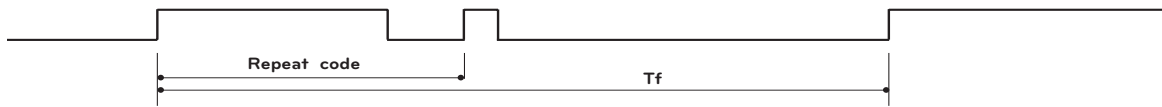
Carrier frequency
 $FCAR = 1/TC = fOSC/12$
 Duty ratio = $T1/TC = 1/3$

■ Configuration of frame

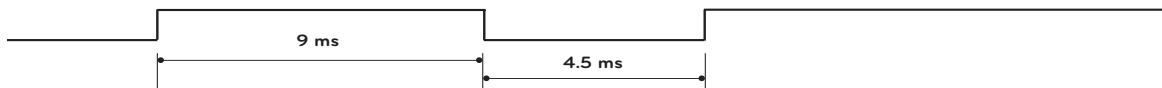
1st frame



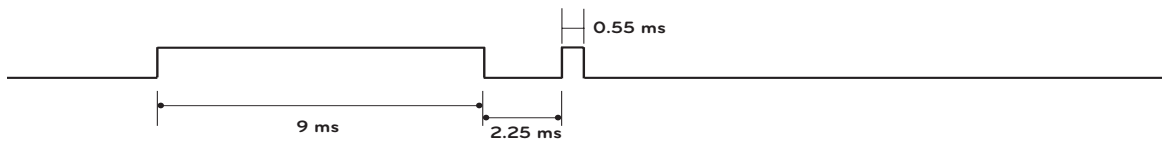
Repeat frame



■ Lead code

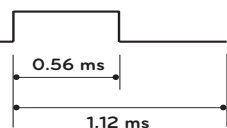


■ Repeat code

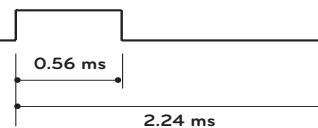


■ Bit description: Tf

Bit "0"

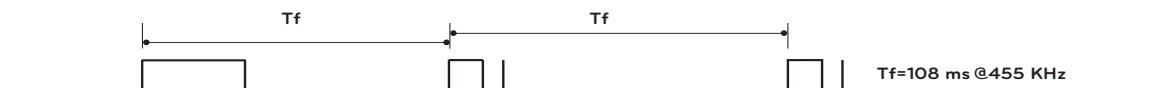


Bit "1"



■ Frame interval: Tf

The waveform is transmitted as long as a key is depressed.



Code (Hexa)	Function	Note	Code (Hexa)	Function	Note
00	CH ^	Remote Control Button	B0	▶	Remote Control Button
01	CH v	Remote Control Button	B1	■	Remote Control Button
02	VOL +	Remote Control Button	BA		Remote Control Button
03	VOL -	Remote Control Button	D6	TV	Discrete IR Code (TV Input Selection)
06	›	Remote Control Button			
07	‹	Remote Control Button	C4	POWER ON	Discrete IR Code (Only Power On)
08	⏻	Remote Control Button (Power On/Off)	C5	POWER OFF	Discrete IR Code (Only Power Off)
09	MUTE/DELETE	Remote Control Button			
0B	INPUT	Remote Control Button	5A	AV1	Discrete IR Code (AV1 Input Selection)
0F	TV	Remote Control Button			
10-19	Number 0-9	Remote Control Button	D0	AV2	Discrete IR Code (AV2 Input Selection)
1A	FLASHBK	Remote Control Button			
1E	FAV/MARK	Remote Control Button	BF	COMPONENT1	Discrete IR Code (Component1 Input Selection)
28	BACK	Remote Control Button			
30	AV MODE	Remote Control Button	D4	COMPONENT2	Discrete IR Code (Component2 Input Selection)
40	^	Remote Control Button			
41	v	Remote Control Button	D5	RGB-PC	Discrete IR Code (RGB-PC Input Selection)
43	MENU	Remote Control Button			
44	ENTER	Remote Control Button	CE	HDMI1	Discrete IR Code (HDMI1 Input Selection)
45	Q.MENU	Remote Control Button			
4C	- (Dash)/LIST	Remote Control Button	CC	HDMI2	Discrete IR Code (HDMI2 Input Selection)
5B	EXIT	Remote Control Button			
58	WIDGETS	Remote Control Button	E9	HDMI3	Discrete IR Code (HDMI3 Input Selection)
59	NETCAST	Remote Control Button			
61	BLUE	Remote Control Button	DA	HDMI4	Discrete IR Code (HDMI4 Input Selection)
63	YELLOW	Remote Control Button			
71	GREEN	Remote Control Button	76	Ratio 4:3	Discrete IR Code (Only 4:3 Mode)
72	RED	Remote Control Button			
79	RATIO	Remote Control Button	77	Ratio 16:9	Discrete IR Code (Only 16:9 Mode)
7E	SIMPLINK	Remote Control Button			
8E	▶▶	Remote Control Button	AF	Ratio Zoom	Discrete IR Code (Only Zoom Mode)
8F	◀◀	Remote Control Button			
95	ENERGY SAVING	Remote Control Button			
AA	INFO	Remote Control Button			

■ Use this feature depending on your models.

APPENDIX

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Version 2, June 1991

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The model and serial number of the TV is located on the back and one side of the TV.
Record it below should you ever need service.

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SERIAL _____