



OWNER'S MANUAL

LCD TV

Please read this manual carefully before operating your set and retain it for future reference.

32LD320H
37LD320H
42LD320H

WARNING / CAUTION



WARNING / CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING/CAUTION

TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

NOTE TO CABLE/TV INSTALLER

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

WARNING / CAUTION

To prevent fire or shock hazards, do not expose this product to rain or moisture.

FCC Notice

Class B digital device

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) This device may not cause (harmful) interference, and (2) this device must accept any interference received, including interference that may cause undesired operation (of the device).

Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CAUTION

Do not attempt to modify this product in any way without written authorization from LG Electronics.

Unauthorized modification could void the user's authority to operate this product.

SAFETY INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS

Read these instructions.

Keep these instructions.

Heed all warnings.

Follow all instructions.



- 1** Do not use this apparatus near water.



- 2** Clean only with dry cloth.



- 3** Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.



- 4** Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



- 5** Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.



- 6** Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.



- 7** Only use attachments/accessories specified by the manufacturer.

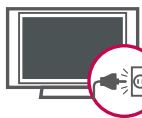


- 8** Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



S3125A

- 9** Unplug this apparatus during lightning storms or when unused for long periods of time.



- 10** Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



- 11** Never touch this apparatus or antenna during a thunder or lightning storm.

- 12** When mounting a TV on the wall, make sure not to install the TV by the hanging power and signal cables on the back of the TV.

- 13** Do not allow an impact shock or any objects to fall into the product, and do not drop onto the screen with something.

- 14** CAUTION concerning the Power Cord: It is recommended that appliances be placed upon a dedicated circuit; that is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain. Do not connect too many appliances to the same AC power outlet as this could result in fire or electric shock.

Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized servicer. Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance.

Do not make the TV with the power cord plugged in. Do not use a damaged or loose power cord. Be sure to grasp the plug when unplugging the power cord. Do not pull on the power cord to unplug the TV.



SAFETY INSTRUCTIONS

15 **WARNING** - To reduce the risk of fire or electrical shock, do not expose this product to rain, moisture or other liquids. Do not touch the TV with wet hands. Do not install this product near flammable objects such as gasoline or candles or expose the TV to direct air conditioning.

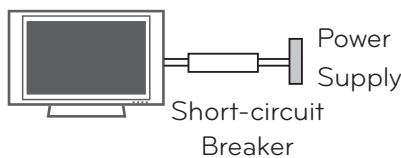


16 Do not expose to dripping or splashing and do not place objects filled with liquids, such as vases, cups, etc. on or over the apparatus (e.g. on shelves above the unit).



17 **GROUNDING**
Ensure that you connect the earth ground wire to prevent possible electric shock (i.e. a TV with a three-prong grounded AC plug must be connected to a three-prong grounded AC outlet). If grounding methods are not possible, have a qualified electrician install a separate circuit breaker.

Do not try to ground the unit by connecting it to telephone wires, lightning rods, or gas pipes.



18 **DISCONNECTING DEVICE FROM MAINS**
Mains plug is the disconnecting device. The plug must remain readily operable.

19 As long as this unit is connected to the AC wall outlet, it is not disconnected from the AC power source even if you turn off this unit by SWITCH.

20 **Cleaning**
When cleaning, unplug the power cord and scrub gently with a soft cloth to prevent scratching. Do not spray water or other liquids directly on the TV as electric shock may occur. Do not clean with chemicals such as alcohol, thinners or benzene.

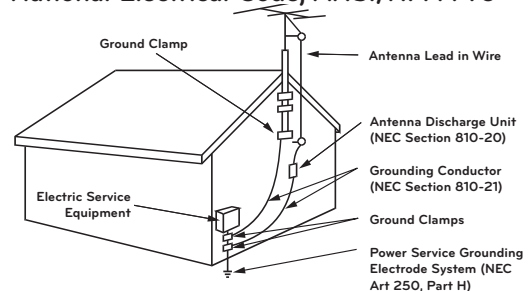
21 **Moving**
Make sure the product is turned off, unplugged and all cables have been removed. It may take 2 or more people to carry larger TVs. Do not press against or put stress on the front panel of the TV.

22 **ANTENNAS**
Outdoor antenna grounding
If an outdoor antenna is installed, follow the precautions below. An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits as death or serious injury can occur.

Be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges.

Section 810 of the National Electrical Code (NEC) in the U.S.A. provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements for the grounding electrode.

Antenna grounding according to the National Electrical Code, ANSI/NFPA 70



NEC: National Electrical Code

23 **Ventilation**
Install your TV where there is proper ventilation. Do not install in a confined space such as a bookcase. Do not cover the product with cloth or other materials (e.g.) plastic while plugged in. Do not install in excessively dusty places.

24 Take care not to touch the ventilation openings. When watching the TV for a long period, the ventilation openings may become hot.

25 If you smell smoke or other odors coming from the TV, unplug the power cord contact and authorized service center.

26 Do not press strongly upon the panel with hand or sharp object such as nail, pencil or pen, or make a scratch on it.



27 Keep the product away from direct sunlight.

28 Dot Defect

The Plasma or LCD panel is a high technology product with resolution of two million to six million pixels. In a very few cases, you could see fine dots on the screen while you're viewing the TV. Those dots are deactivated pixels and do not affect the performance and reliability of the TV.

29 Generated Sound

"Cracking" noise: A cracking noise that occurs when watching or turning off the TV is generated by plastic thermal contraction due to temperature and humidity. This noise is common for products where thermal deformation is required.

Electrical circuit humming/panel buzzing: A low level noise is generated from a high-speed switching circuit, which supplies a large amount of current to operate a product. It varies depending on the product.

This generated sound does not affect the performance and reliability of the product.

30 For LED LCD TV/LCD TV

If the TV feels cold to the touch, there may be a small "flicker" when it is turned on. This is normal, there is nothing wrong with TV.

Some minute dot defects may be visible on the screen, appearing as tiny red, green, or blue spots. However, they have no adverse effect on the monitor's performance.

Avoid touching the LCD screen or holding your finger(s) against it for long periods of time. Doing so may produce some temporary distortion effects on the screen.

ON DISPOSAL

(Only Hg lamp used LCD TV)

The fluorescent lamp used in this product contains a small amount of mercury. Do not dispose of this product with general household waste. Disposal of this product must be carried out in accordance to the regulations of your local authority.

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FEATURE OF THIS TV

- Some of these features are not available on all models.



High-definition television. High-resolution digital television broadcast and playback system composed of roughly a million or more pixels, 16:9 aspect-ratio screens, and AC3 digital audio. A subset of digital television, HDTV formats include 1080i and 720p resolutions.



A unique invisible speaker system tuned by renowned audio expert, Mr. Mark Levinson. Speakers are embedded in strategic spots behind the front cabinet and use minute vibrations to turn the entire front bezel into the speaker system. The result is a clean, polished look, and enhanced audio by increasing the "sweet spot", giving a wider and richer sound field.



Automatically enhances and amplifies the sound of human voice frequency range to help keep dialogue audible when background noise swells.



Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.



HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC."

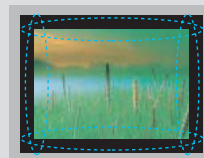
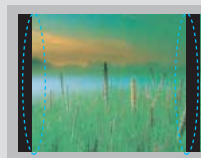


View videos and photos and listen to music on your TV through USB 2.0 ('videos' dependent on model).



IMPORTANT INFORMATION TO PREVENT "IMAGE BURN / BURN-IN" ON YOUR TV SCREEN

- When a fixed image (e.g. logos, screen menus, video game, and computer display) is displayed on the TV for an extended period, it can become permanently imprinted on the screen. This phenomenon is known as "image burn" or "burn-in." Image burn is not covered under the manufacturer's warranty.
- In order to prevent image burn, avoid displaying a fixed image on your TV screen for a prolonged period (2 or more hours for LCD, 1 or more hours for Plasma).
- Image burn can also occur on the letter-boxed areas of your TV if you use the 4:3 aspect ratio setting for an extended period.



PREPARATION

ACCESSORIES

Ensure that the following accessories are included with your TV. If an accessory is missing, please contact the dealer where you purchased the TV.

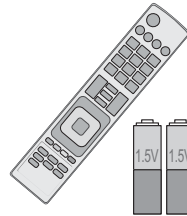
The accessories included may differ from the images below.



Owner's Manual



CD Manual

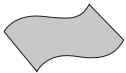


Remote Control,
Batteries (AAA)



Torx plus Star
head screw
(Refer to P.26)

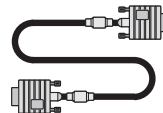
Not included with all models



Polishing Cloth

- * Wipe spots on the exterior only with the polishing cloth.
- * Do not wipe roughly when removing stains. Excessive pressure may cause scratches or discoloration.

Option Extras



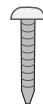
D-sub 15 pin Cable

When using the VGA (D-sub 15 pin cable) PC connection, the user must use shielded signal interface cables with ferrite cores to maintain standards compliance.

26/32/37/42LD320H



(M4 x 24)
Screws for stand
assembly
(Refer to P.13)



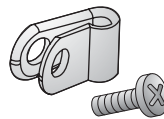
Screw for stand
fixing
(Refer to P.19)



Protection Cover
(Refer to P.14)



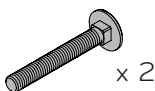
Power Cord



Protective Bracket and
Screw for Power Cord
(Refer to P.17)



Plug in type holder
(Refer to P.17)



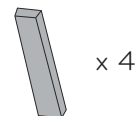
Screws for stand
fixing
(Refer to P.19)



Washers for stand
fixing
(Refer to P.19)



Nuts for stand fix-
ing
(Refer to P.19)



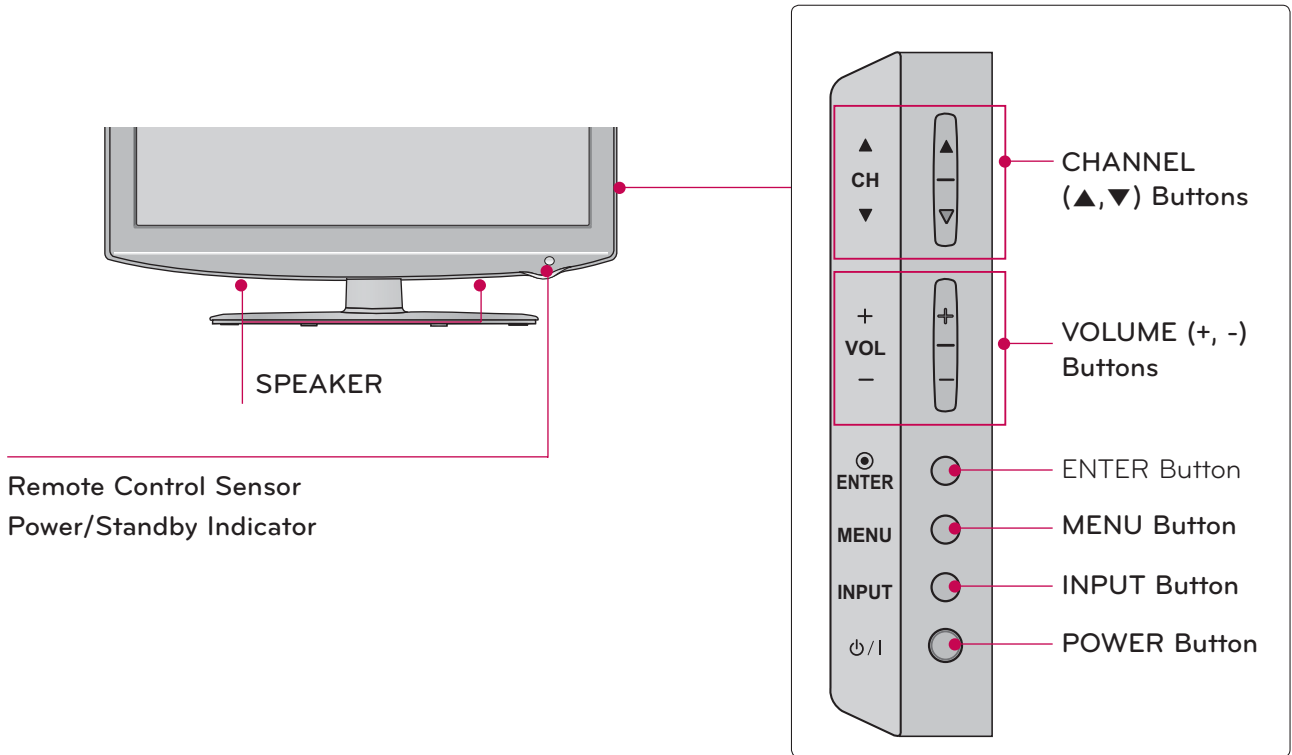
Rubbers for stand
fixing
(Refer to P.19)

PREPARATION

FRONT PANEL INFORMATION

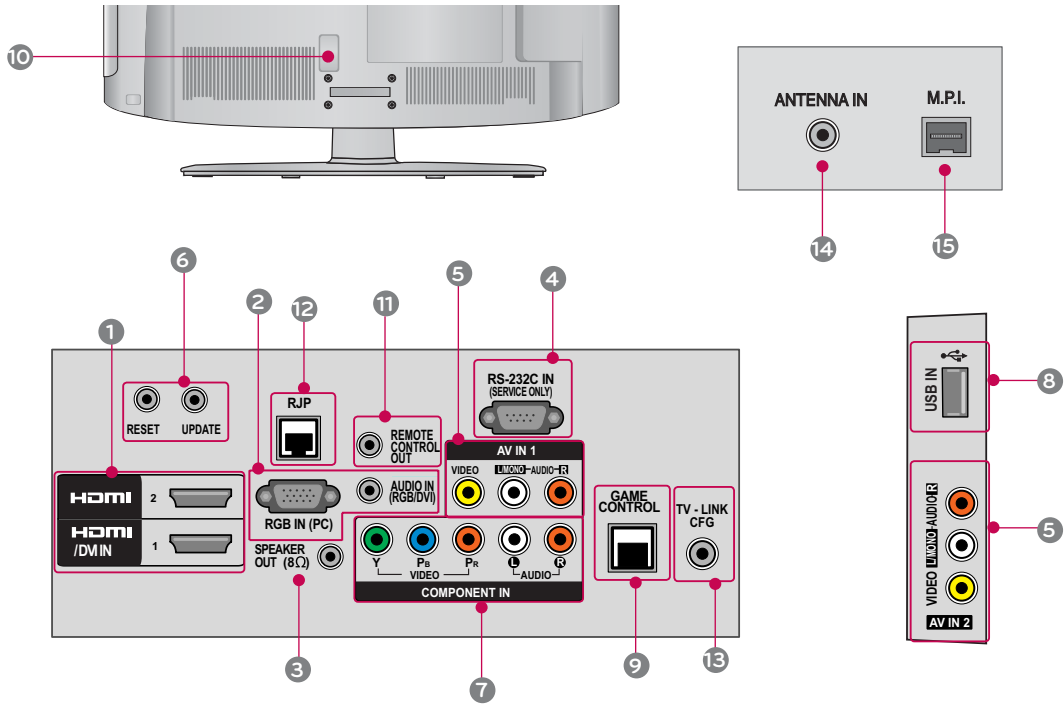
■ Image shown may differ from your TV.

PREPARATION



BACK PANEL INFORMATION

■ Image shown may differ from your TV.



PREPARATION

1 HDMI/DVI IN, HDMI IN

Digital Connection.

Supports HD video and Digital audio. Doesn't support 480i.

Accepts DVI video using an adapter or HDMI to DVI cable (not included).

2 RGB IN (PC)

Analog PC Connection. Uses a D-sub 15 pin cable (VGA cable).

AUDIO IN (RGB/DVI)

0.32 cm (1/8 inch) headphone jack for analog PC audio input.

3 SPEAKER OUT (8Ω)

Connect to external speaker input.

4 RS-232C IN (SERVICE ONLY)

Used by third party devices.

This port is used for service or Hotel mode.

5 AV (Audio/Video) IN

Analog composite connection. Supports standard definition video only (480i).

6 UPDATE

Enables/disables software downloads and debug mode.

RESET

Performs a hardware reset.

7 COMPONENT IN

Analog Connection.

Supports HD.

Uses a red, green, and blue cable for video & red and white for audio.

8 USB INPUT

Used for viewing videos, photos and listening to MP3s.

9 GAME CONTROL

Control port

10 Power Cord Socket

For operation with AC power.

Caution: Never attempt to operate the TV on DC power.

11 REMOTE CONTROL OUT

IR output for controlling an auxiliary device.

12 RJP (REMOTE JACK PACK PORT)

Connect to remote jack pack control output port.

13 TV - LINK CFG

Used for FTG Configuration

14 ANTENNA IN

Connect over the air signals th this jack.

15 M. P. I.

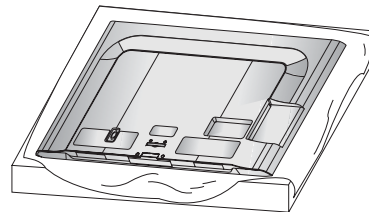
Control port.

STAND INSTRUCTIONS

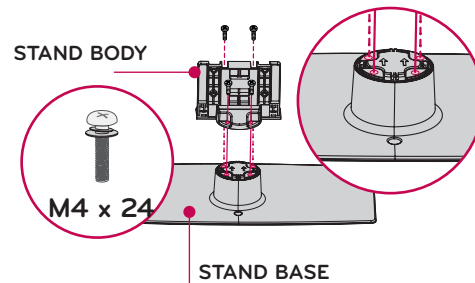
■ Image shown may differ from your TV.

INSTALLATION

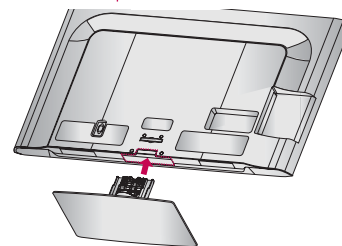
1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.




2 Assemble the parts of the STAND BODY with the STAND BASE of the TV.





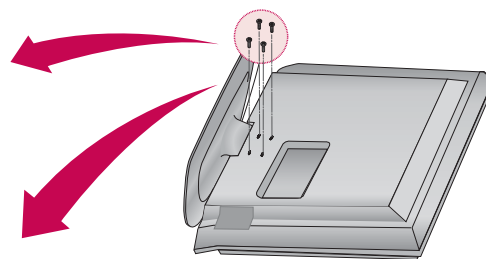
3 Assemble the TV as shown.



4  x 4
Tighten the stand with the four screws (provided as parts of the TV).

or

 x 2  x 2 Tighten the two of these four screws and the two Torx plus star head screws (provided as parts of the TV) to secure the TV. Tighten the two Torx plus star head screws with a star head driver bit (not provided as parts of the TV).



NOTE

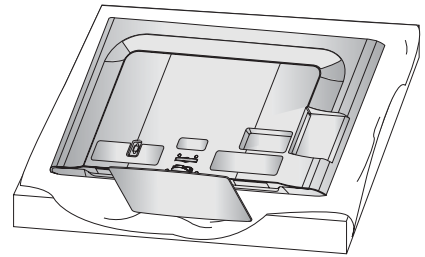
► When assembling the desk type stand, make sure the screws are fully tightened (If not tightened fully, the TV can tilt forward after the product installation). Do not over tighten.

PREPARATION

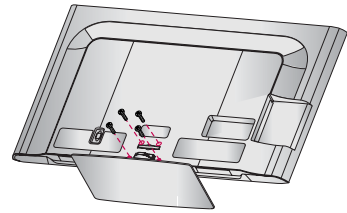
■ Image shown may differ from your TV.

DETACHMENT

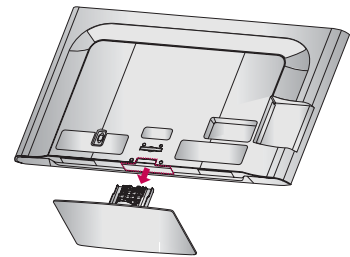
1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



2 Remove the screws from the TV.



3 Detach the stand from TV.

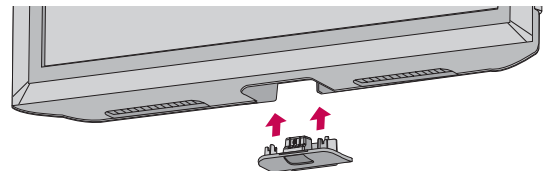


PROTECTION COVER

After removing the stand, install the included **PROTECTION COVER** over the hole for the stand.

Press the **PROTECTION COVER** into the TV until you hear it click.

When installing the wall mounting bracket, use the **PROTECTION COVER**.



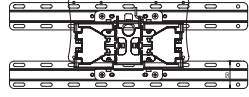
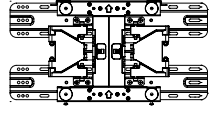
VESA WALL MOUNTING

Install your wall mount on a solid wall perpendicular to the floor. When attaching to other building materials, please contact your nearest installer.

If installed on a ceiling or slanted wall, it may fall and result in severe personal injury.

We recommend that you use an LG brand wall mount when mounting the TV to a wall.

LG recommends that wall mounting be performed by a qualified professional installer.

Model	VESA (A * B) 	Standard Screw	Quantity	Wall Mounting Bracket (sold separately)
26LD320H 32LD320H	200 * 100	M4	4	LSW100B, LSW100BG 
37LD320H, 42LD320H	200 * 200	M6	4	LSW200B, LSW200BG 

PREPARATION

NOTE

- ▶ Screw length needed depends on the wall mount used. For further information, refer to the instructions included with the mount.
- ▶ Standard dimensions for wall mount kits are shown in the table.
- ▶ When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly are provided.
- ▶ Do not use screws longer than the standard dimension, as they may cause damage to the inside to the TV.
- ▶ For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on their specifications.
- ▶ Do not use screws that do not comply with the VESA standard screw specifications.
Do not use fasten the screws too strongly, this may damage the TV or cause the TV to a fall, leading to personal injury. LG is not liable for these kinds of accidents.
- ▶ LG is not liable for TV damage or personal injury when a non-VESA or non specified wall mount is used or the consumer fails to follow the TV installation instructions.

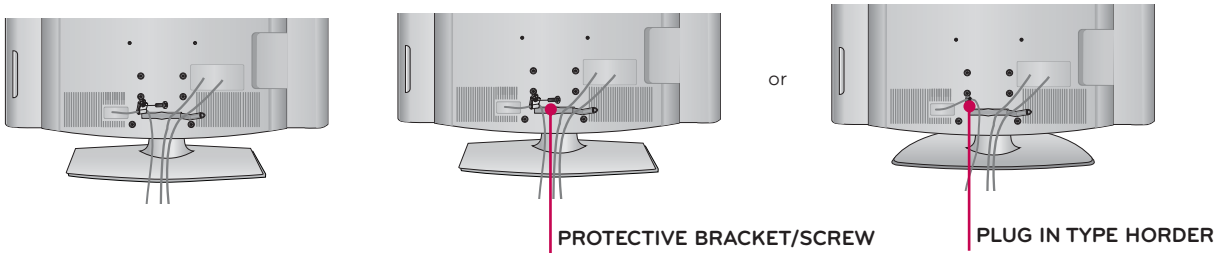
CAUTION

- ▶ Do not install your wall mount kit while your TV is turned on. It may result in personal injury due to electric shock.

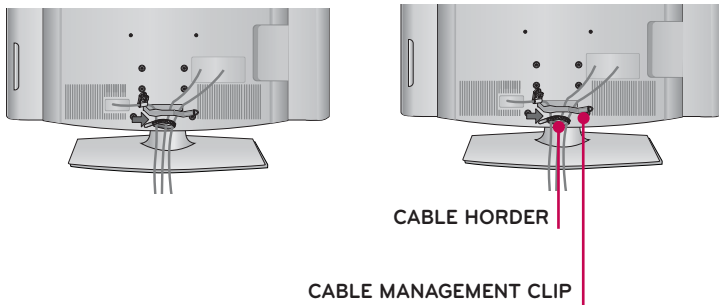
CABLE MANAGEMENT

■ Image shown may differ from your TV.

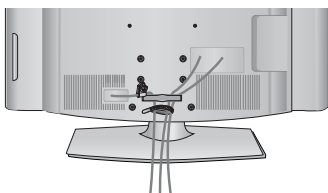
- 1 Connect the cables as necessary.
 To connect additional equipment, see the **EXTERNAL EQUIPMENT SETUP** section.
 Secure the power cord with the **PROTECTIVE BRACKET/SCREW** or the **PLUG IN TYPE HORDER**. It will help prevent the power cable from being removed by accident.



- 2 Install the **CABLE MANAGEMENT CLIP** as shown. If your TV has the **CABLE HORDER**, install it as shown and bundle the cables.



- 3 Put the cables inside the **CABLE MANAGEMENT CLIP** and snap it closed.

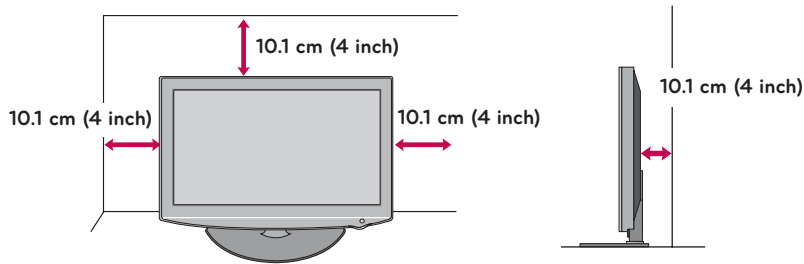


PREPARATION

DESKTOP PEDESTAL INSTALLATION

- Image shown may differ from your TV.

For proper ventilation, allow a clearance of 10.1 cm (4 inch) on all four sides from the wall.

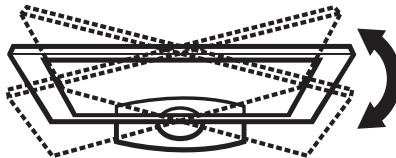


⚠ CAUTION

- ▶ Ensure adequate ventilation by following the clearance recommendations.
- ▶ Do not mount near or above any type of heat source.

SWIVEL STAND

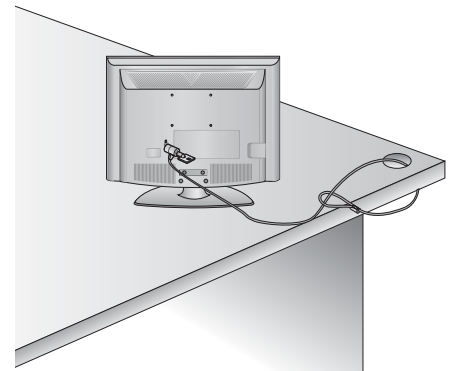
After installing the TV, you can adjust the TV set manually to the left or right direction by 90 ° to suit your viewing position.



KENSINGTON SECURITY SYSTEM

- This feature is not available for all models.
 - The TV is equipped with a Kensington Security System connector on the back panel. Connect the Kensington Security System cable as shown below.
 - For the detailed installation and use of the Kensington Security System, refer to the user's guide provided with the Kensington Security System.
- For further information, contact <http://www.kensington.com>, the internet homepage of the Kensington company. Kensington sells security systems for expensive electronic equipment such as notebook PCs and LCD projectors.

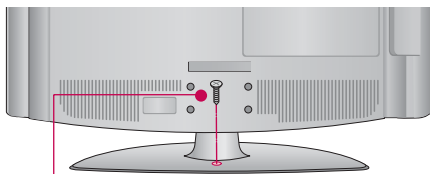
NOTE: The Kensington Security System is an optional accessory.



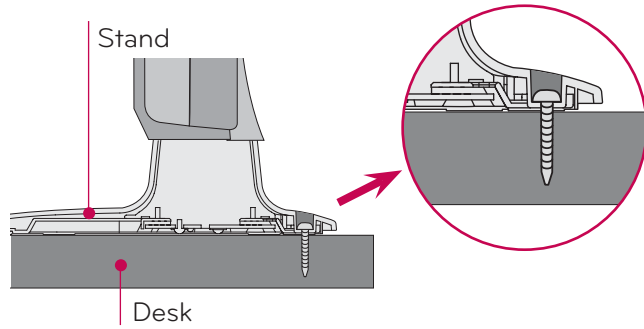
ATTACHING THE TV TO A DESK

- Image shown may differ from your TV.

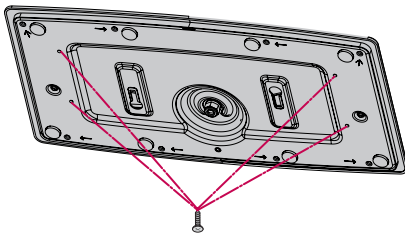
The TV must be attached to a desk so it cannot be pulled in a forward/backward direction, potentially causing injury or damaging the product.



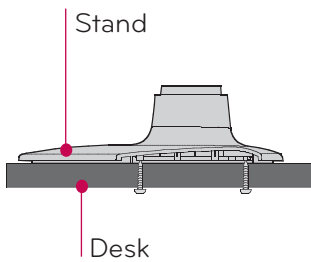
1-Screw
(provided as parts of the product)



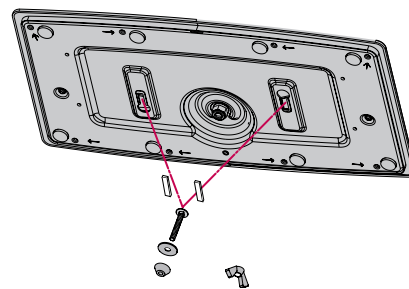
TYPE 1



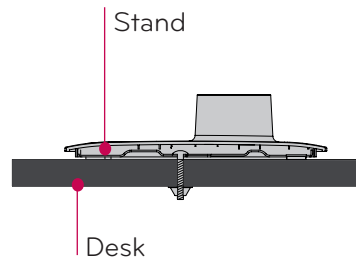
4-Screws
(not provided as parts of the product)



TYPE 2



2-Screws, 2-Washers, 2-Nuts,
4-Rubbers
(provided as parts of the product)



- ▶ You can select any type of attachment (Type 1 or Type 2)
- ▶ Do not over tighten.

⚠ WARNING

- ▶ To prevent TV from falling over, the TV should be securely attached to the floor/wall per installation instructions. Tipping, shaking, or rocking the machine may cause injury.

PREPARATION

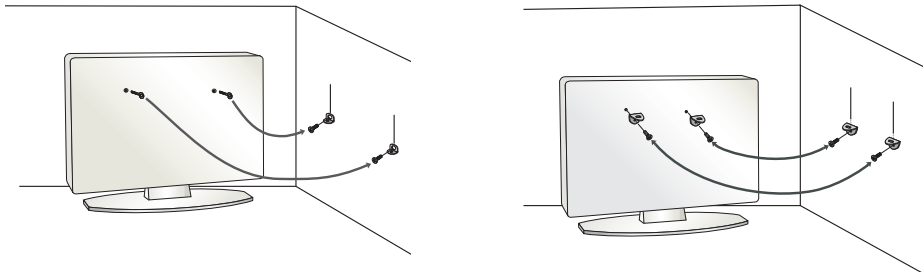
SECURING THE TV TO THE WALL TO PREVENT FALLING WHEN THE TV IS USED ON A STAND

PREPARATION

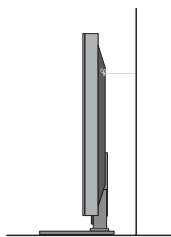
- You should purchase necessary components to prevent the TV from tipping over (when not using a wall mount).
- Image shown may differ from your TV.

We recommend that you set up the TV close to a wall so it cannot fall over if pushed backwards. Additionally, we recommend that the TV be attached to a wall so it cannot be pulled in a forward direction, potentially causing injury or damaging the product.

Caution: Please make sure that children don't climb on or hang from the TV.



- Insert the eye-bolts (or TV brackets and bolts) to tighten the product to the wall as shown in the picture.
 - * If your product has the bolts in the eye-bolts position before inserting the eye-bolts, loosen the bolts.
 - * Insert the eye-bolts or TV brackets/bolts and tighten them securely in the upper holes.
- Secure the wall brackets with the bolts (sold separately) to the wall. Match the height of the bracket that is mounted on the wall to the holes in the product.
- Ensure the eye-bolts or brackets are tightened securely.



- Use a sturdy rope (sold separately) to tie the product. It is safer to tie the rope so it becomes horizontal between the wall and the product.

NOTE

- ▶ Use a platform or cabinet strong enough and large enough to support the size and weight of the TV.
- ▶ To use the TV safely make sure that the height of the bracket on the wall and the one on the TV are the same.

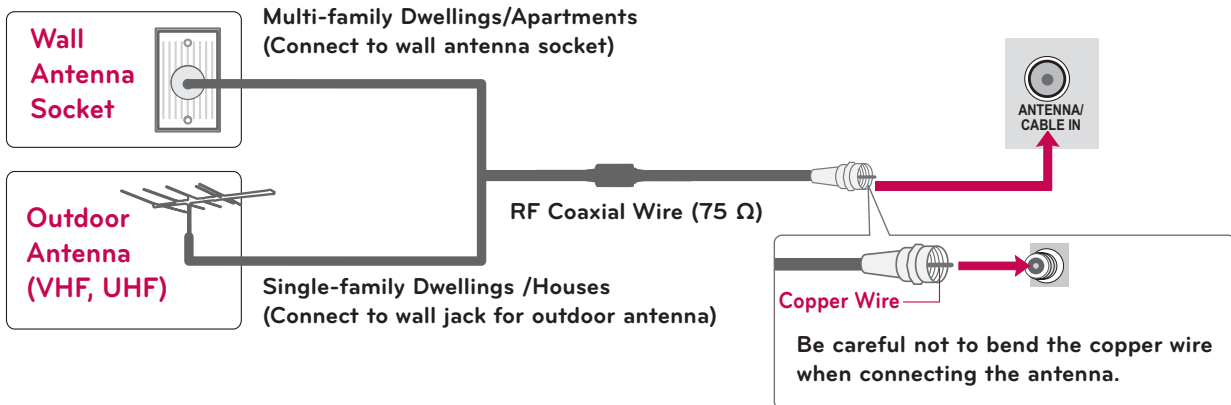
- To prevent damage do not connect to the power outlet until all connections are made between the devices.
- Image shown may differ from your TV.

ANTENNA OR CABLE CONNECTION

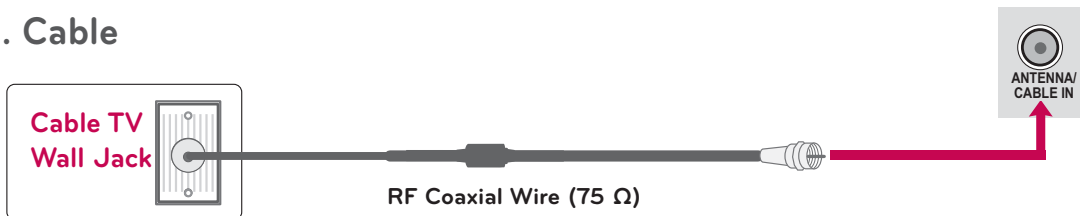
1. Antenna (Analog or Digital)

Wall Antenna Socket or Outdoor Antenna without a Cable Box Connections.

For optimum picture quality, adjust antenna direction if needed.



2. Cable



- If the antenna needs to be split for two TV's, install a 2-Way Signal Splitter.
- For much more information about antennas visit our Knowledgebase at <http://lgknowledgebase.com>. Search for antenna.

EXTERNAL EQUIPMENT SETUP

- To prevent the equipment damage, never plug in any power cords until you have finished connecting all equipment.

HD RECEIVER SETUP

This TV can receive digital over-the-air/digital cable signals without an external digital set-top box. However, if you do receive digital signals from a digital set-top box or other digital external device.

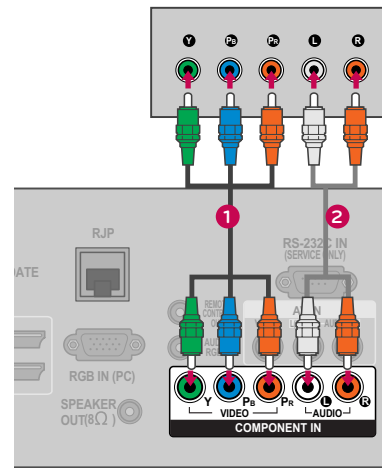
Component Connection

1. How to connect

- 1 Connect the video outputs (Y, PB, PR) of the digital set-top box to the **COMPONENT IN VIDEO** or 1/2* jacks on the TV. Match the jack colors (Y = green, PB = blue, and PR = red).
- 2 Connect the audio output of the digital set-top box to the **COMPONENT IN AUDIO** or 1/2* jacks on the TV.

2. How to use

- Turn on the digital set-top box.
(Refer to the owner's manual for the digital set-top box operation.)
- Select the **Component** or **Component1** input source on the TV using the **INPUT** button on the remote control.



Y, Cb/PB, Cr/PR

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720x480i	15.73	59.94
	15.73	60.00
720x480p	31.47	59.94
	31.50	60.00
1280x720p	44.96	59.94
	45.00	60.00
1920x1080i	33.72	59.94
	33.75	60.00
1920x1080p	26.97	23.976
	27.00	24.00
	33.71	29.97
	33.75	30.00
	67.432	59.94
	67.50	60.00

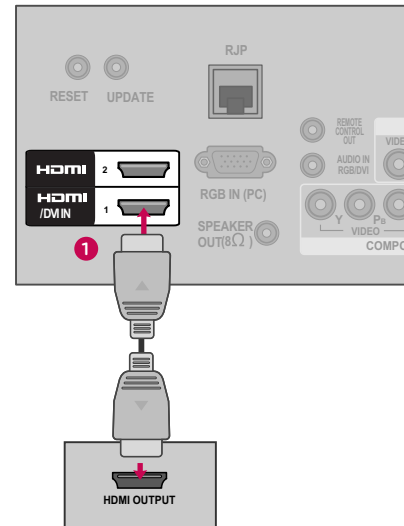
HDMI Connection

1. How to connect

- 1 Connect the digital set-top box to **HDMI/DVI IN 1, 2, 3***, or **4**** jack on the TV.
- 2 No separate audio connection is necessary. HDMI supports both audio and video.

2. How to use

- Turn on the digital set-top box.
(Refer to the owner's manual for the digital set-top box.)
- Select the **HDMI1**, or **HDMI2** input source on the TV using the **INPUT** button on the remote control.



NOTE

- ▶ If an HDMI cable doesn't support High Speed HDMI, it can cause flickers or no screen display. In this case use the latest cables that support High Speed HDMI.
- ▶ HDMI Audio Supported Format: Dolby Digital (32 kHz, 44.1 kHz, 48 kHz), Linear PCM (32 kHz, 44.1 kHz, 48 kHz)

HDMI-DTV

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720x480p	31.47	59.94
	31.50	60.00
1280x720p	44.96	59.94
	45.00	60.00
1920x1080i	33.72	59.94
	33.75	60.00
1920x1080p	26.97	23.976
	27.00	24.00
	33.71	29.97
	33.75	30.00
	67.432	59.94
	67.50	60.00

EXTERNAL EQUIPMENT SETUP

DVI to HDMI Connection

1. How to connect

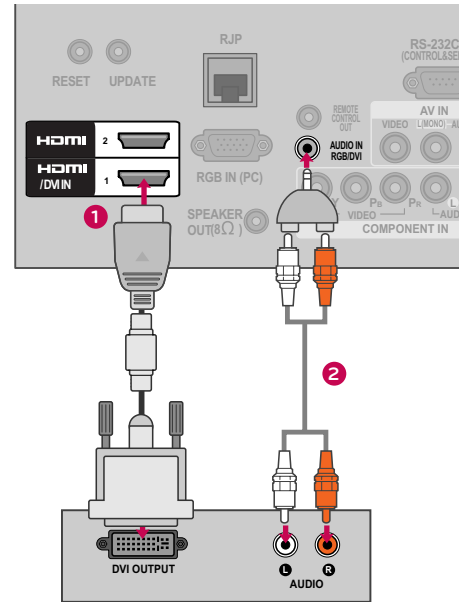
- 1 Connect the DVI output of the digital set-top box to the **HDMI/DVI IN 1** or **2*** jack on the TV.
- 2 Connect the digital set-top box audio output to the **AUDIO IN (RGB/DVI)** jack on the TV.

2. How to use

- Turn on the digital set-top box.
(Refer to the owner's manual for the digital set-top box.)
- Select the **HDMI1** or **HDMI2** input source on the TV using the **INPUT** button on the remote control.

NOTE

- ▶ A DVI to HDMI cable or adapter is required for this connection. DVI doesn't support audio, so a separate audio connection is necessary.



DVD SETUP

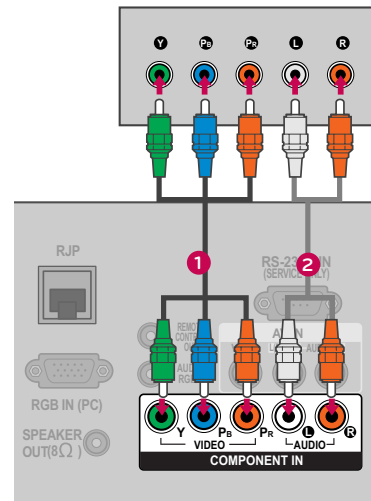
Component Connection

1. How to connect

- 1 Connect the video outputs (Y, PB, PR) of the DVD to the **COMPONENT IN VIDEO** or 1/2* jacks on the TV. Match the jack colors (Y = green, PB = blue, and PR = red).
- 2 Connect the audio outputs of the DVD to the **COMPONENT IN AUDIO** or 1/2* jacks on the TV.

2. How to use

- Turn on the DVD player, insert a DVD.
- Select the **Component** or **Component1** input source on the TV using the **INPUT** button on the remote control.
- Refer to the DVD player's manual for operating instructions.



Component Input ports

To get better picture quality, connect a DVD player to the component input ports as shown below.

Component ports on the TV	Y	P _B	P _R
Video output ports on DVD player	Y	P _B	P _R
	Y	B-Y	R-Y
	Y	C _b	C _r
	Y	P _b	P _r

EXTERNAL EQUIPMENT SETUP

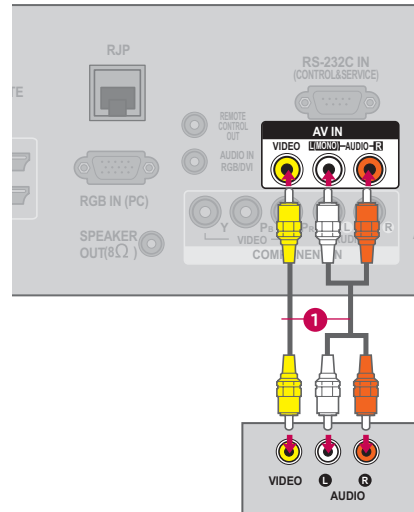
Composite (RCA) Connection

1. How to connect

- 1 Connect the **AUDIO/VIDEO** jacks between TV and DVD. Match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red)

2. How to use

- Turn on the DVD player, insert a DVD.
- Select the **AV** or **AV1/2** input source on the TV using the **INPUT** button on the remote control.
- Refer to the DVD player's manual for operating instructions.



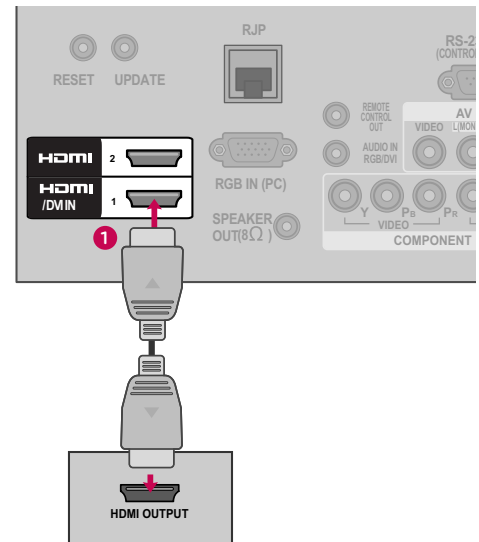
HDMI Connection

1. How to connect

- 1 Connect the HDMI output of the DVD to the **HDMI/DVI IN 1**, or **2** jack on the TV.
- 2 No separate audio connection is necessary. HDMI supports both audio and video.

2. How to use

- Select the **HDMI1**, or **HDMI2** input source on the TV using the **INPUT** button on the remote control.
- Refer to the DVD player's manual for operating instructions.



NOTE

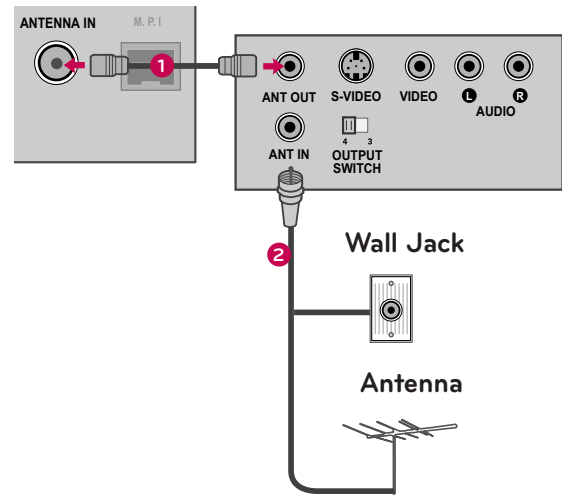
- ▶ If an HDMI cable doesn't support High Speed HDMI, it can cause flickers or no screen display. In this case use the latest cables that support High Speed HDMI.
- ▶ HDMI Audio Supported Format: Dolby Digital (32 kHz, 44.1 kHz, 48 kHz), Linear PCM (32 kHz, 44.1 kHz, 48 kHz)

VCR SETUP

Antenna Connection

1. How to connect

- 1 Connect the RF antenna out socket of the VCR to the **ANTENNA/CABLE IN** socket on the TV.
- 2 Connect the antenna cable to the RF antenna in socket of the VCR.



2. How to use

- Set VCR output switch to 3 or 4 and then tune TV to the same channel number.
- Insert a video tape into the VCR and press PLAY on the VCR (Refer to the VCR owner's manual).

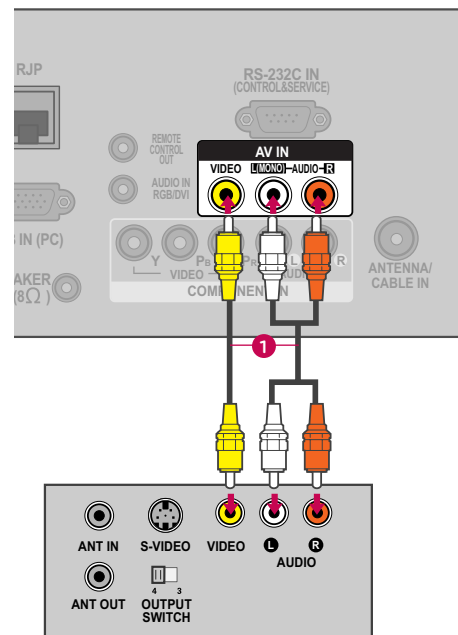
Composite (RCA) Connection

1. How to connect

- 1 Connect the **AUDIO/VIDEO** jacks between TV and VCR. Match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red)

2. How to use

- Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
- Select the **AV** or **AV1/2** input source on the TV using the **INPUT** button on the remote control.



NOTE

- ▶ If you have a mono VCR, connect the audio cable from the VCR to the **AUDIO L(MONO)** jack of the TV.

EXTERNAL EQUIPMENT SETUP

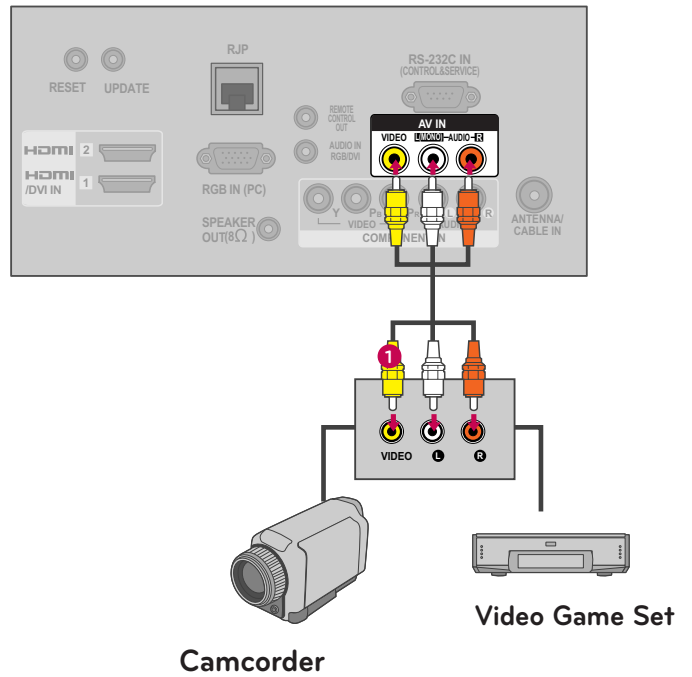
OTHER A/V SOURCE SETUP

1. How to connect

- 1 Connect the **AUDIO/VIDEO** jacks between TV and external equipment. Match the jack colors. (Video = yellow, Audio Left = white, and Audio Right = red)

2. How to use

- Select the **AV** or **AV1/2** input source on the TV using the **INPUT** button on the remote control.
- Operate the corresponding external equipment.



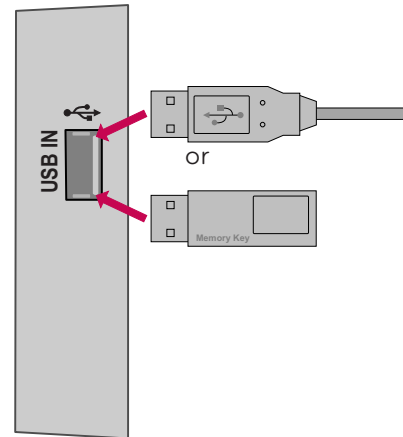
USB CONNECTION

1. How to connect

- 1 Connect the USB device to the **USB IN** jack on the side of TV.
-

2. How to use

- After connecting the **USB IN** jack, you use the USB function.



EXTERNAL EQUIPMENT SETUP

PC SETUP

This TV provides Plug and Play capability, meaning that a PC adjusts automatically to the TV's settings.

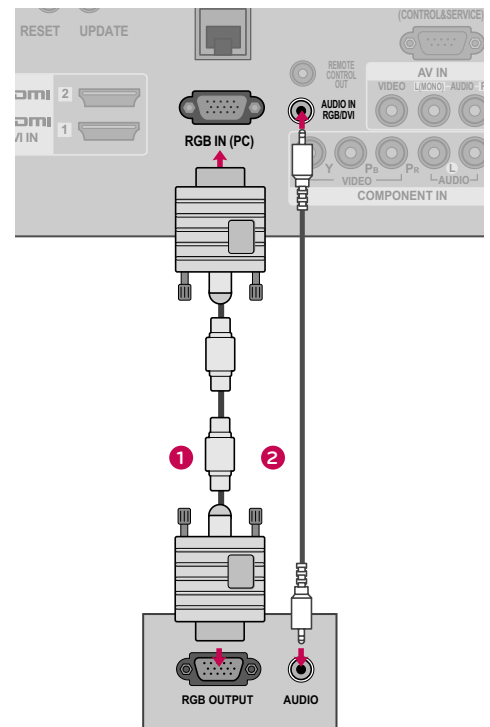
VGA (D-Sub 15 Pin) Connection

1. How to connect

- 1 Connect the VGA output of the PC to the **RGB IN (PC)** jack on the TV.
- 2 Connect PC audio output to the **AUDIO IN (RGB/DVI)** jack on the TV.

2. How to use

- Turn on the PC and the TV.
- Select the **RGB-PC** input source on the TV using the **INPUT** button on the remote control.



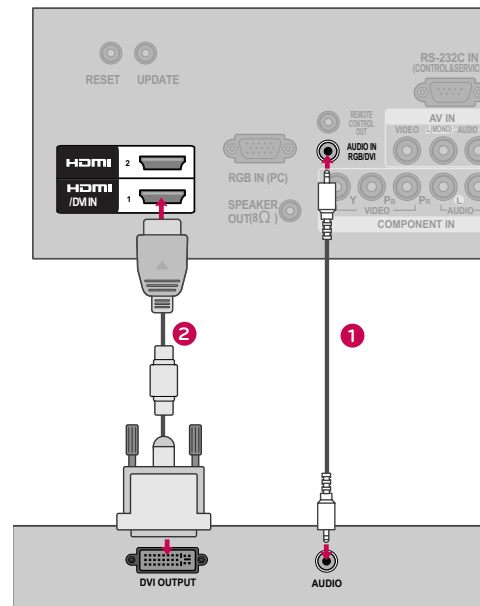
DVI to HDMI Connection

1. How to connect

- 1 Connect the DVI output of the PC to the **HDMI/DVI IN 1** or **2*** jack on the TV.
- 2 Connect the PC audio output to the **AUDIO IN (RGB/DVI)** jack on the TV.

2. How to use

- Turn on the PC and the TV.
- Select the **HDMI1** or **HDMI2** input source on the TV using the **INPUT** button on the remote control.



EXTERNAL EQUIPMENT SETUP

NOTE

- ▶ To get the the best picture quality, adjust the PC graphics card to **1920 x 1080**.(22/26LD320H : **1360 x 768**)
- ▶ Depending on the graphics card, DOS mode may not work if a HDMI to DVI Cable is in use.
- ▶ In PC mode, there may be noise associated with the resolution, vertical pattern, contrast or brightness. If noise is present, change the PC output to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on the PICTURE menu until the picture is clear.
- ▶ Avoid keeping a fixed image on the screen for a long period of time. The fixed image may become permanently imprinted on the screen.
- ▶ The synchronization input form for Horizontal and Vertical frequencies is separate.
- ▶ Depending on the graphics card, some resolution settings may not allow the image to be positioned on the screen properly.
- ▶ When selecting HDMI-PC, set the "Input Label - PC" in the OPTION menu.

Supported Display Specifications (RGB-PC, HDMI-PC)

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
640x350	31.468	70.09
720x400	31.469	70.08
640x480	31.469	59.94
800x600	37.879	60.31
1024x768	48.363	60.00
1280x768	47.776	59.87
1360x768	47.712	60.015
1280x1024	63.981	60.02
1600x1200	75.00	60.00
1920x1080 RGB-PC	66.587	59.934
1920x1080 HDMI-PC	67.50	60.00

Except 26/32LD320H

EXTERNAL EQUIPMENT SETUP

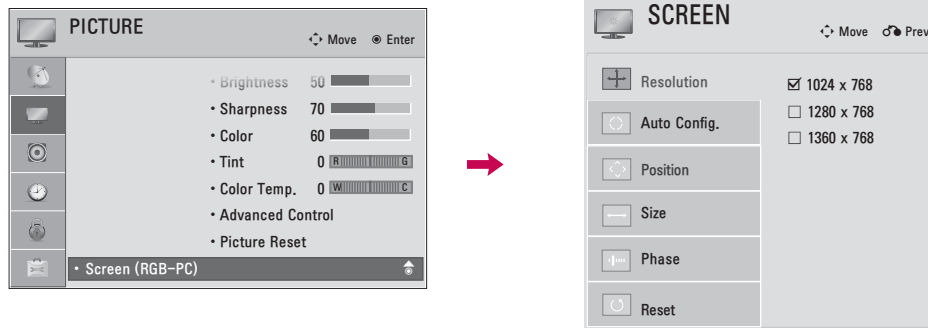
Screen Setup for PC mode


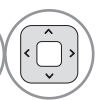

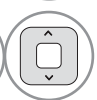

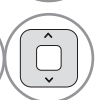



Selecting Resolution

You can choose the resolution in RGB-PC mode.

The Position, Phase, and Size can also be adjusted.

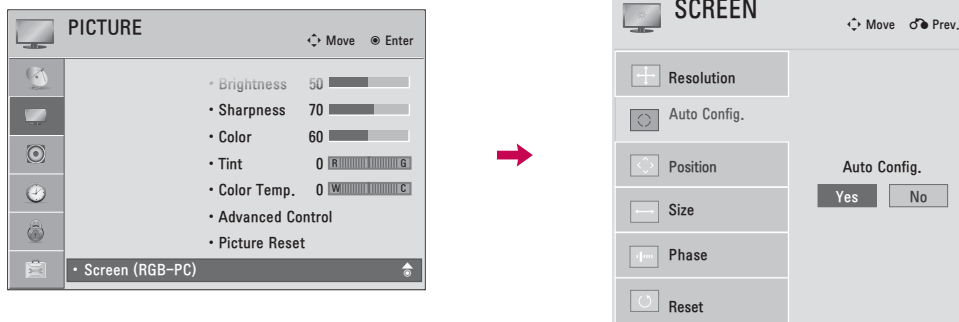
You can choose this option only when the PC resolution is set to 1024X768, 1280X768 or 1360X768.












-   Select **PICTURE**.
-   Select **Screen (RGB-PC)**.
-   Select **Resolution**.
-   Select the desired resolution.
- 

Auto Configure

Automatically adjusts picture position and minimizes image instability. After adjustment, if the image is still not correct, try using the manual settings or a different resolution or refresh rate on the PC.



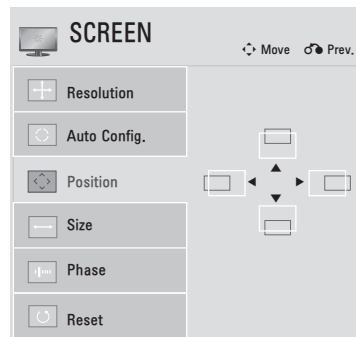
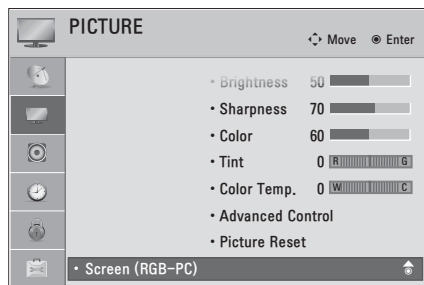
- 1   Select **PICTURE**.
- 2   Select **Screen (RGB-PC)**.
- 3   Select **Auto Config.**.
- 4   Select **Yes**.
- 5  Start Auto Configuration.










- If the position of the image is still not correct, try Auto adjustment again.
- If picture needs to be adjusted again after Auto adjustment in RGB-PC, you can adjust the **Position**, **Size** or **Phase**.

EXTERNAL EQUIPMENT SETUP

Adjustment for screen Position, Size, and Phase

If the picture is not clear after auto adjustment or if text is shaking, adjust the picture phase manually. This feature operates only in RGB-PC mode.

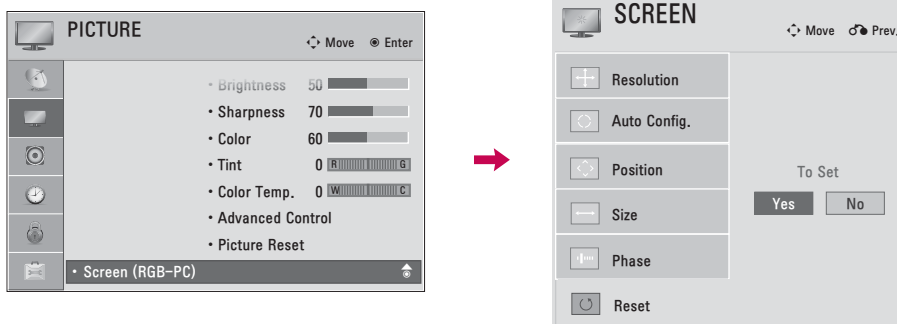











- 1   Select **PICTURE**.
- 2   Select **Screen (RGB-PC)**.
- 3   Select **Position, Size, or Phase**.
- 4   Make appropriate adjustments.
- 5 

- **Position:** This function is to adjust picture to left/right and up/down as you prefer.
- **Size:** This function is to minimize any vertical bars or stripes visible on the screen background. And the horizontal screen size will also change.
- **Phase:** This function allows you to remove any horizontal noise and clear or sharpen the image of characters.

Screen Reset (Reset to original initial values)

Returns **Position**, **Size**, and **Phase** to the default initial settings.
This feature operates only in RGB-PC mode.



- 1   Select **PICTURE**.
- 2   Select **Screen (RGB-PC)**.
- 3   Select **Reset**.
- 4   Select **Yes**.
- 5  Start **Reset**.

WATCHING TV / CHANNEL CONTROL

REMOTE CONTROL FUNCTIONS

When using the remote control, aim it at the remote control sensor on the TV.
The remote control may differ from the images below.

POWER Turns the TV on from standby or off to standby.

ALARM Set the time that the TV will automatically turn itself on.

TIMER Select the amount of time before your TV turns off automatically.

INPUT Rotates through inputs.
Also switches the TV on from standby.

TV Returns to the last TV channel.

NUMBER button

- (DASH) Used to enter a program number for multiple program channels such as 2-1, 2-2, etc.

FLASHBK Tunes to the last channel viewed.

MENU Displays the main menu or clears all on-screen displays and return to TV viewing.

SAP Analog mode: Selects MTS sound (Mono, Stereo, or a SAP)
DTV mode: Changes the audio language.

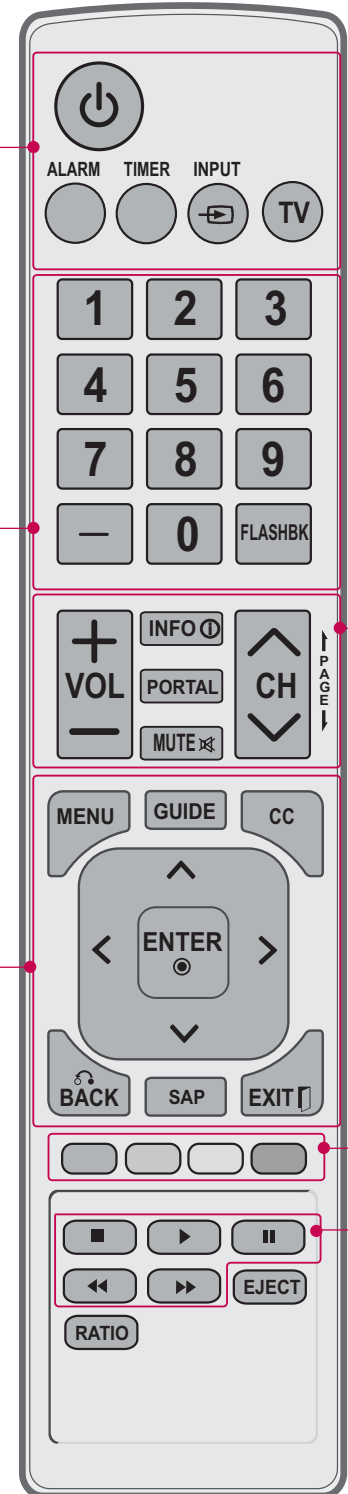
CC Select a closed caption.

THUMBSTICK (Up/Down/Left Right/ENTER) Navigates the on-screen menus and adjusts the system settings to your preference.

BACK Allows the user to move return one step in an interactive application or other user interaction function.

GUIDE Show Channel schedule.

EXIT Clears all on-screen displays and return to TV viewing.



VOLUME UP/DOWN

Adjusts the volume.

INFO

Displays channel information at the bottom of the screen.

PORTAL

Displays and removes the hotel interactive menu.

MUTE

Switches the sound on or off.

CHANNEL UP/DOWN

Changes the channel.

PAGE UP/DOWN

Moves from one full set of screen information to the next one.

COLOR BUTTON

Access special functions in some menus.

VCR/DVD control buttons

Control video cassette recorders or DVD players.

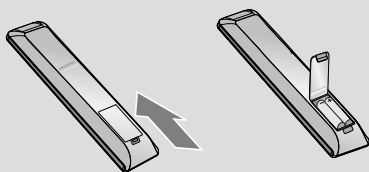
EJECT

Eject the USB device.

RATIO

Change the aspect ratio

Installing Batteries



- Open the battery compartment cover on the back side and install the batteries matching correct polarity.
- Install two 1.5V AAA batteries. Don't mix old or used batteries with new ones.
- Close cover.

WATCHING TV / CHANNEL CONTROL

TURNING ON THE TV

- 1 First, connect power cord correctly.
At this moment, the TV switches to standby mode.
 - In standby mode to turn TV on, press the **⏻** / **I**, **INPUT, CH (▲ or ▼)** button on the TV or press the **⏻**, **INPUT, CH (▲ or ▼)**, **Number (0-9)** button on the remote control.
- 2 Select the viewing source by using the **INPUT** button on the remote control.
- 3 When finished using the TV, press the **POWER** button on the remote control. The TV reverts to standby mode.

NOTE

- ▶ If you intend to be away on vacation, disconnect the power plug from the wall power outlet.
- ▶ If you do not complete the **Initial setting**, it will appear whenever the TV is switched on until the **Initial setting** procedure is completed.

CHANNEL SELECTION

- 1 Press the **CH (▲ or ▼)** or **NUMBER** buttons to select a channel number.

VOLUME ADJUSTMENT

Adjust the volume to suit your personal preference.


- 1 Press the **VOL (+ or -)** button to adjust the volume.
- 2 If you want to switch the sound off, press the **MUTE** button.
- 3 You can cancel the Mute function by pressing the **MUTE** or **VOL (+ or -)** button.


ON-SCREEN MENUS SELECTION

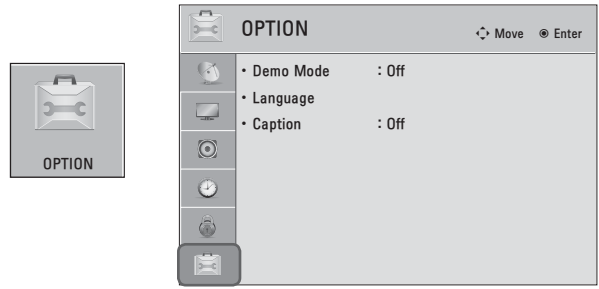
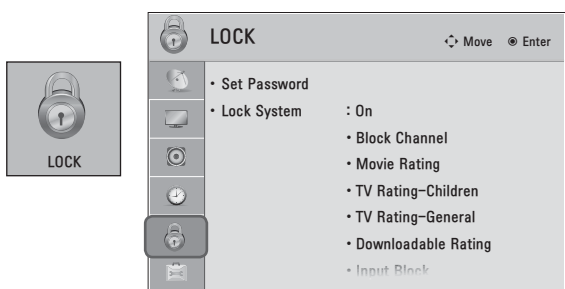
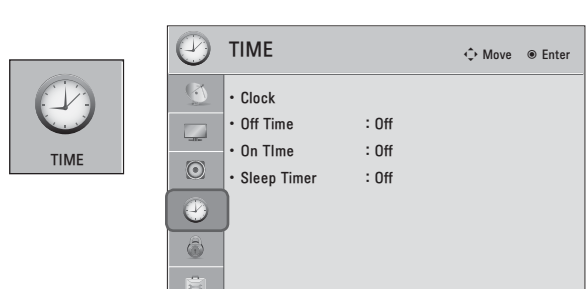
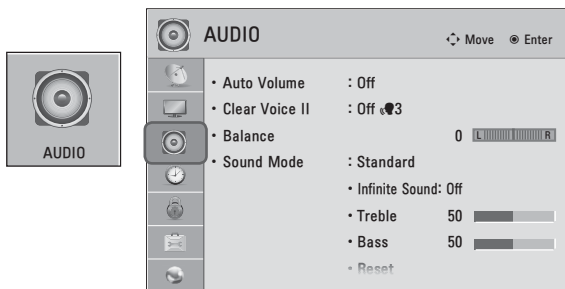
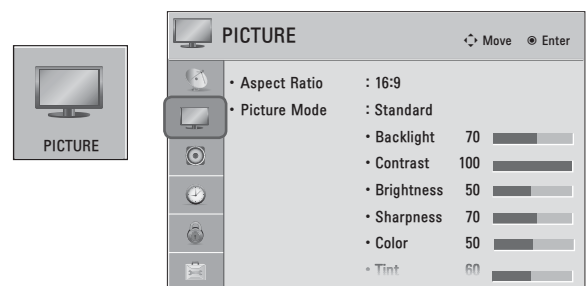
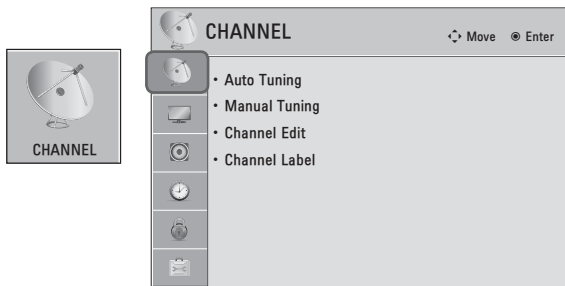
Your TV's OSD (On Screen Display) may differ slightly from that shown in this manual.

1   Display each menu.

2   Select a menu item.

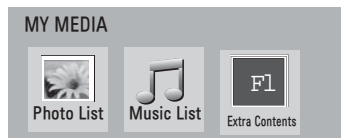
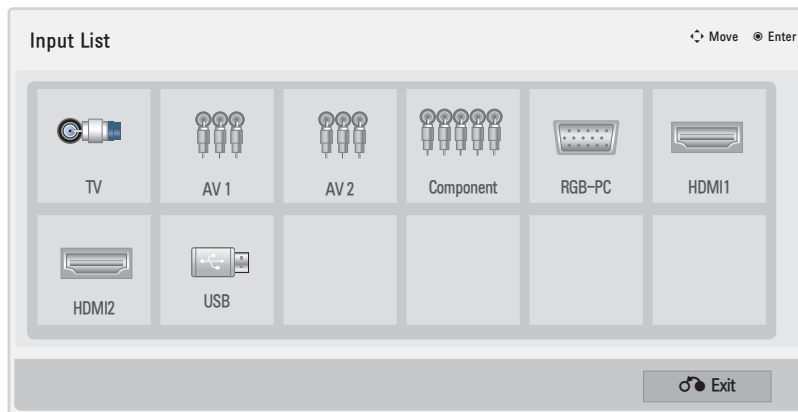
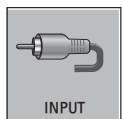
3  Accept the current selection.

4  Return to TV viewing.



WATCHING TV / CHANNEL CONTROL

i.e)

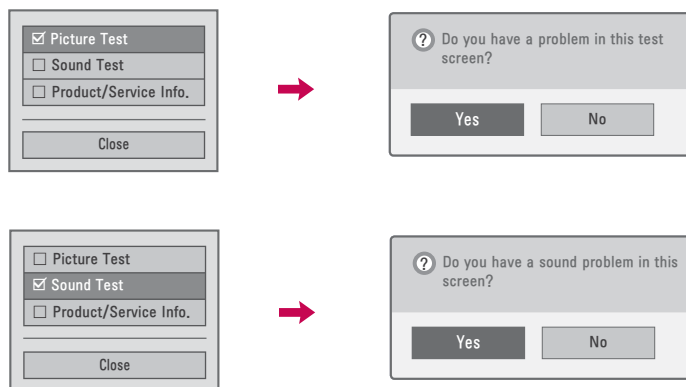










WATCHING TV / CHANNEL CONTROL

CUSTOMER SUPPORT

Picture Test / Sound Test

This function is a customer support function that can execute picture and sound tests.

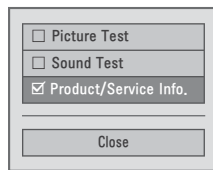








-   Select **Customer Support**.
-   Select **Picture Test** or **Sound Test**.
-   Select **Yes**.
-  Return to the previous menu.
-  Return to TV viewing.

WATCHING TV / CHANNEL CONTROL

Product/Service Info.

This function shows support and product information.
Customer Service Center can differ by country.



-
-   Select **Customer Support**.
 -   Select **Product/Service Info..**
You can check the various product/Service information based on your model.
 -  Return to the previous menu.
 -  Return to TV viewing.

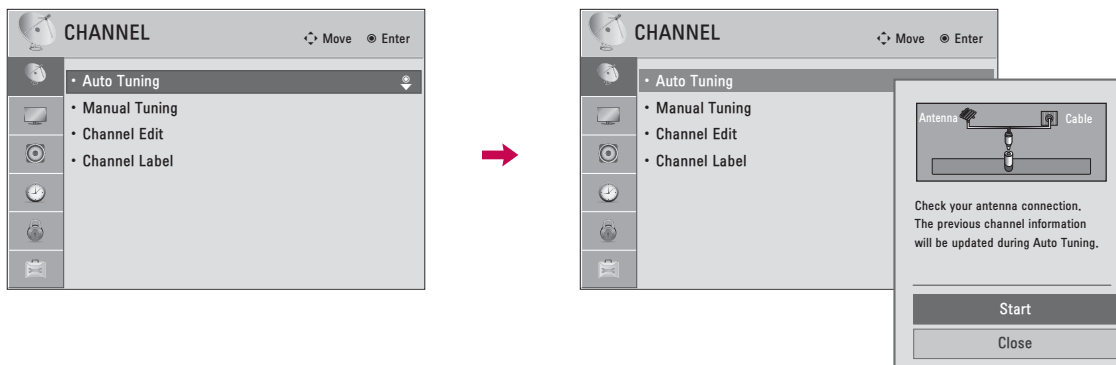
CHANNEL SETUP


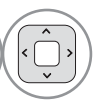

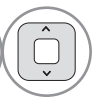

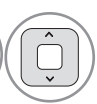



Auto Scan (Auto Tuning)

Automatically finds all channels available through antenna or cable inputs, and stores them in memory on the channel list.

Run this function if you change your residence or move the TV.

Auto Tuning memorizes only the channels available at the time.

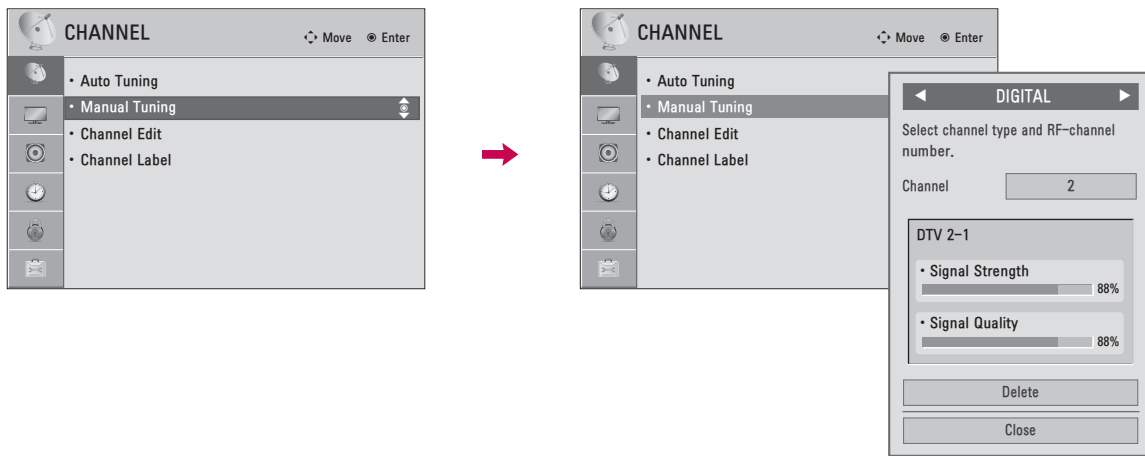














-   Select **CHANNEL**.
-   Select **Auto Tuning**.
-   Select **Start**.
-  Run **Auto tuning**.
-  Return to the previous menu.
-  Return to TV viewing.

WATCHING TV / CHANNEL CONTROL

Add/Delete Channel (Manual Tuning)

When selecting DTV or Cable DTV input signal in **Manual Tuning**, you can view the on-screen signal strength monitor to see the quality of the signal being received.



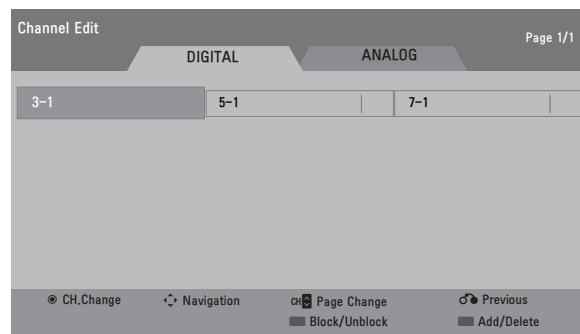
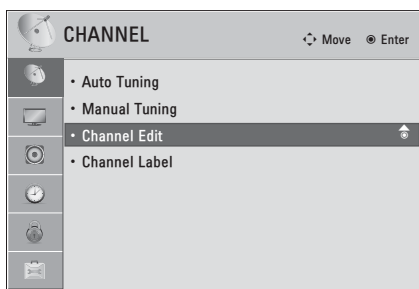
- 1   Select **CHANNEL**.
- 2   Select **Manual Tuning**.
- 3   Select **DIGITAL**, or **ANALOG**.
- 4   Select channel you want to add or delete.
- 5   Select **Add** or **Delete**.
- 6  Return to the previous menu.
-  Return to TV viewing.

- The TV will ask for a password if parental control has been activated (LOCK Menu). Use the password you set up in the LOCK Menu to allow a channel search.
- The maximum number of channels the TV can store is 1000.

Channel Editing

The channels in the Channel Edit List are displayed in black and the channels deleted from the Channel Edit List are displayed in blue.

When a channel number is deleted, it means that you will be unable to select it using CH \wedge V button during TV viewing. If you wish to select the deleted channel, directly enter the channel number with the NUMBER buttons or select it in the Channel Edit menu.




1   Select **CHANNEL**.


2   Select **Channel Edit**.


3   Select a channel.


4  Add or delete a channel.


Block or unblock the channel.

 You can block/unblock channels even if you select "Lock system-Off" in the LOCK menu.

 Switch to the chosen channel number.

 Move the pages when the channel list is too long.

5  Return to the previous menu.

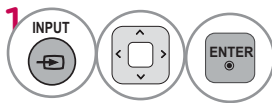
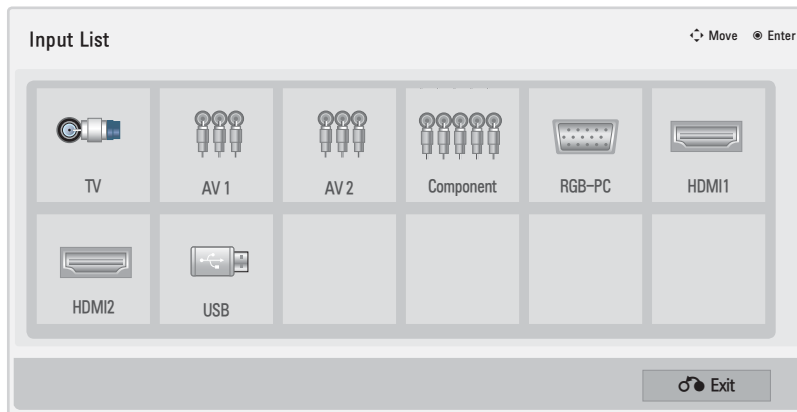
 Return to TV viewing.

WATCHING TV / CHANNEL CONTROL

INPUT LIST

Only these input signals which are connected to a TV can be activated and selected.

ie)

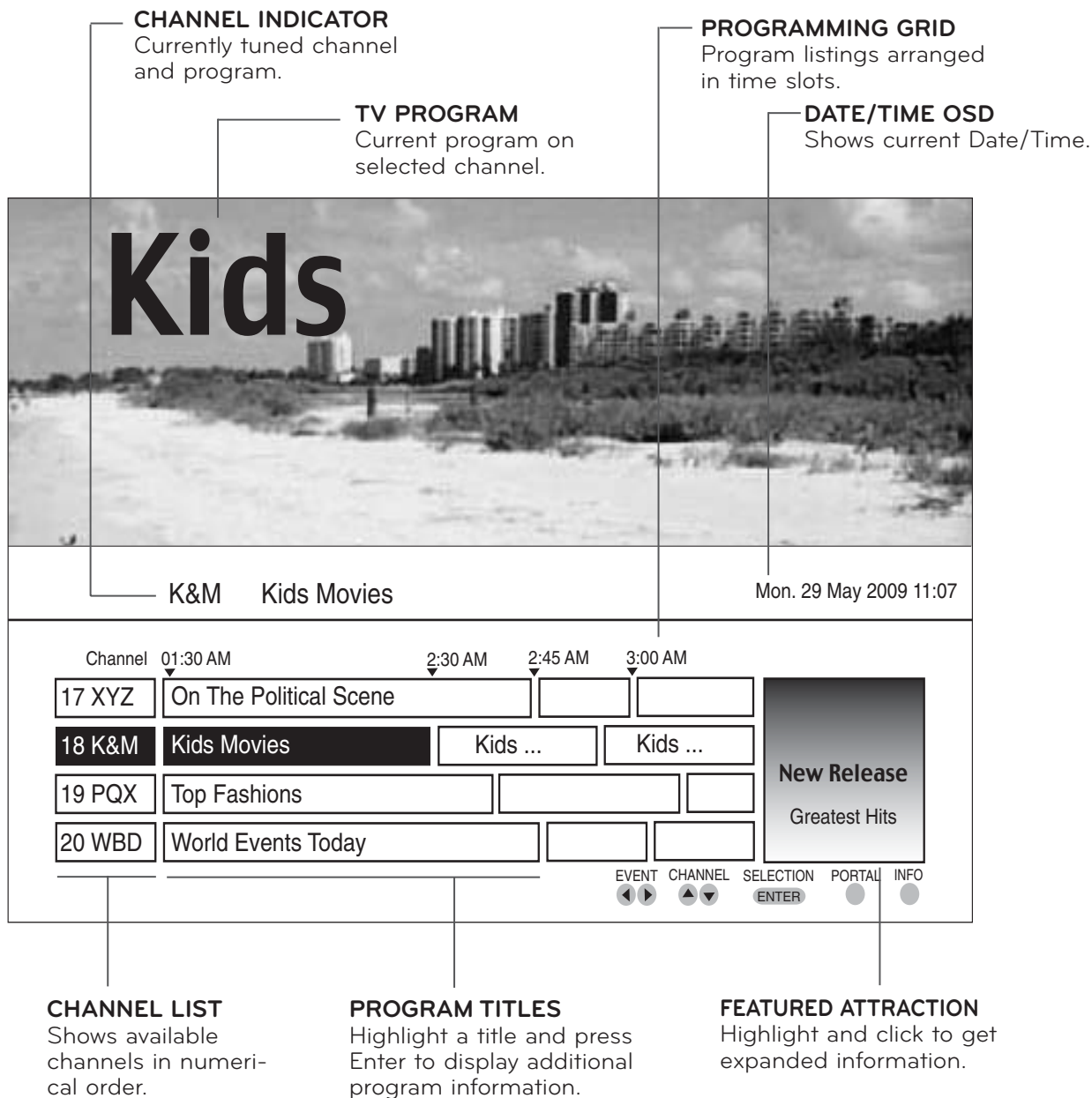


Select the desired input source.

- **TV:** Select it to watch over-the-air, cable and digital cable broadcasts.
- **AV:** Select them to watch a VCR or other external equipment.
- **Component:** Select them to watch DVD or a Digital set-top box.
- **RGB-PC:** Select it to view PC input.
- **HDMI:** Select them to watch high definition devices.

EXAMPLE ELECTRONIC PROGRAM GUIDE

This is an example of a typical TV electronic program guide showing available programming.



WATCHING TV / CHANNEL CONTROL

1 Select GUIDE button to shows available TV programs.

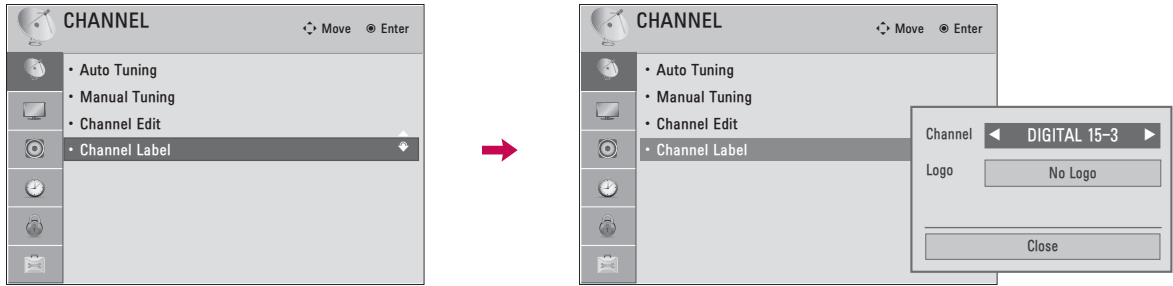
2 Select a Channel.




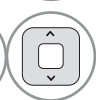

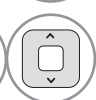





WATCHING TV / CHANNEL CONTROL

CHANNEL LABEL

Choose preset labels for your channels.

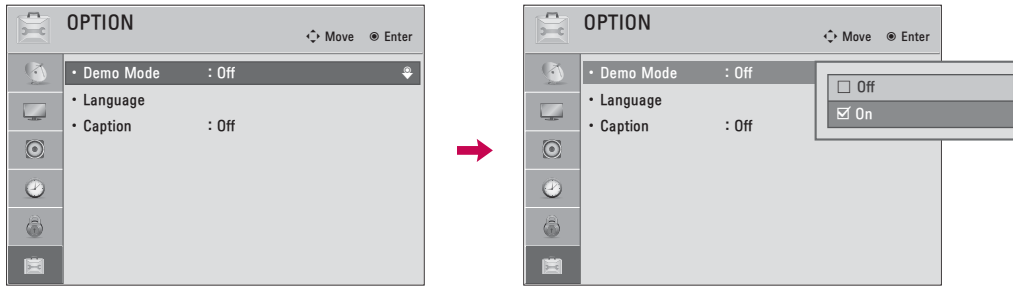
If a channel label is provided on the signal from the broadcasting station, the TV displays a short name for a channel even if you didn't preset a label for the channel.




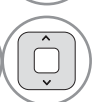

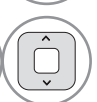



-   Select **CHANNEL**.
-   Select **Channel Label**.
-   Select a Channel.
-  Select a channel to set logo.
-   Select the appropriate logo for the channel.
-  Return to the previous menu.
-  Return to TV viewing.

DEMO MODE

Displays a slide show to explain the various feature of this TV.



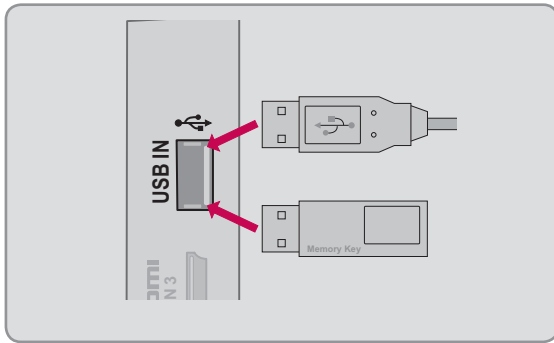
-   Select **OPTION**.
-   Select **Demo Mode**.
-   Select On to show the various feature of the TV.
-  Return to TV viewing.
After a while, **Demo Mode** starts.
If you want to stop the demo, press any button (Except VOL +, - and MUTE button).

MY MEDIA

CONNECTION METHOD

USB Connection

- 1 Connect the USB device to the **USB IN** jack on the side of TV.



Precautions when using the USB device

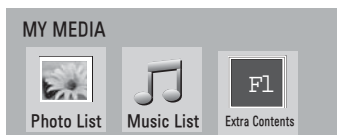
- ▶ Only a USB storage device is recognizable.
- ▶ Connecting a USB storage device through a USB hub is not supported.
- ▶ A USB storage device which uses its own driver may not be recognized.
- ▶ The recognition speed of a USB storage device may depend on each device.
- ▶ Please do not turn off the TV or unplug the USB device when the connected USB storage device is working. When such device is suddenly separated or unplugged, the stored files or the USB storage device may be damaged.
- ▶ Only use a USB storage device which has normal music files, image files, or movie files.
- ▶ Please use only a USB storage device which was formatted as a FAT 32 or NTFS file system provided with the Windows operating system. Others may not be recognized.
- ▶ Some USB storage devices require a power adapter. The power adapter must be connected in order to be seen by the TV.
- ▶ If a device is not recognized by the TV, try a different cable. Excessively long cables are not supported.
- ▶ Some USB storage devices may not be supported or operate properly.
- ▶ Please backup important files because data on USB device could be damaged. Data management is consumer's responsibility and as a result, the manufacturer does not cover data damage.
- ▶ If your USB memory device has multiple partitions, or if you use a USB multi-card reader, you can use up to 4 partitions or USB memory devices.
- ▶ In case of USB storage devices formatted as NTFS, deletion is not supported.
- ▶ File alignment method of USB storage device is similar to Window XP and file names can be up to 100 English characters.
- ▶ The recommended capacity is 1TB or less for a USB external hard disk and 32 GB or less for USB memory.
- ▶ If a USB external hard disk with a "Energy Saving" function doesn't work, turn the hard disk off and on again to make it work properly. Refer to the user manual of the USB external hard disk.
- ▶ USB storage devices below USB 2.0 are supported as well. But they may not work properly in the movie list.






MY MEDIA

ENTRY MODE

The My Media menu will open automatically when you insert a USB drive. My Media can also be accessed by choosing My Media in the user menu.

On USB device, you can not add a new folder or delete the existing folder.



-   Select **MY MEDIA**.
-   Select **Photo List** or **Music List** or **Extra Contents**.
- 

■ This TV can view JPG image files, HD DivX files or play MP3 audio files.

PHOTO LIST

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

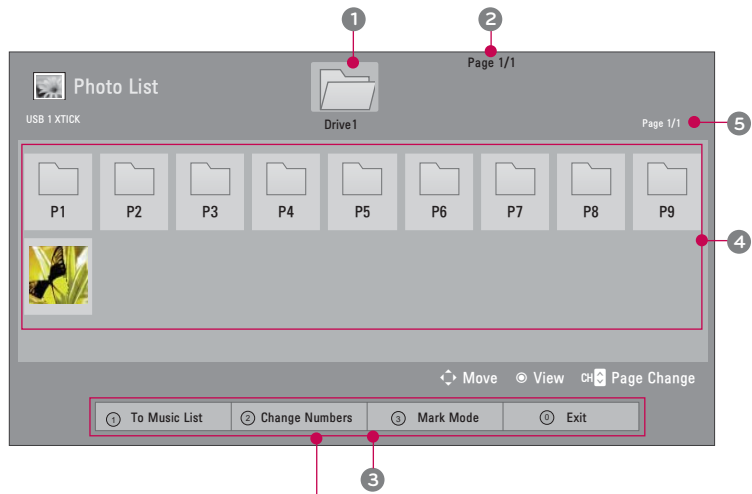
Supported photo file: *.JPG

- 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



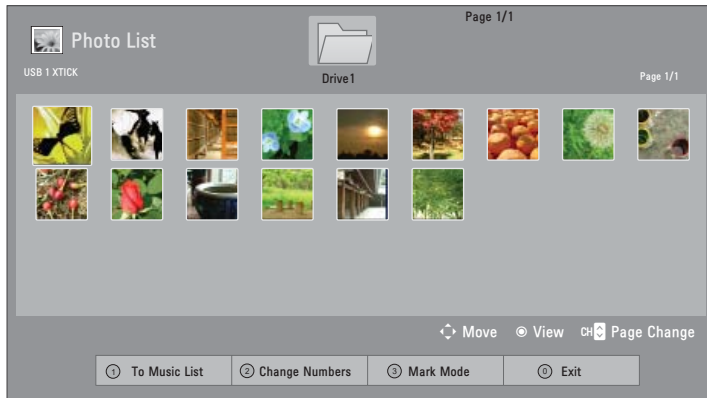
- 1 Moves to upper level folder
- 2 Current page/total pages
- 3 Corresponding buttons on the remote control
- 4 Contents under the folder focused on 1
- 5 Current page/total pages of contents






1	Move to Music List .
2	Change Numbers: Changes the number or thumbnails displayed at a time.
3	Allows you to mark certain files.
0	Return to TV viewing.

MY MEDIA

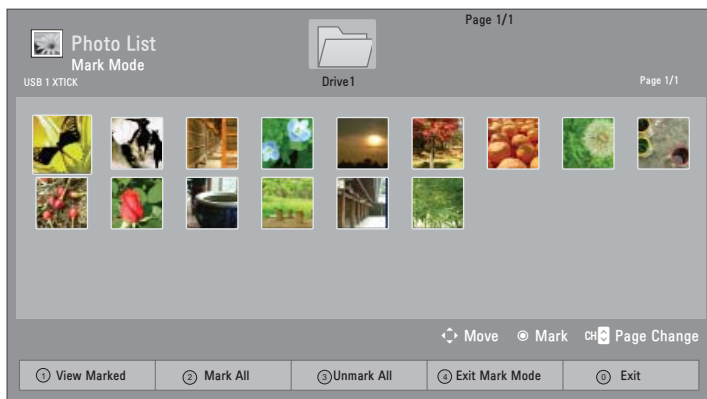
Photo Selection








- 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



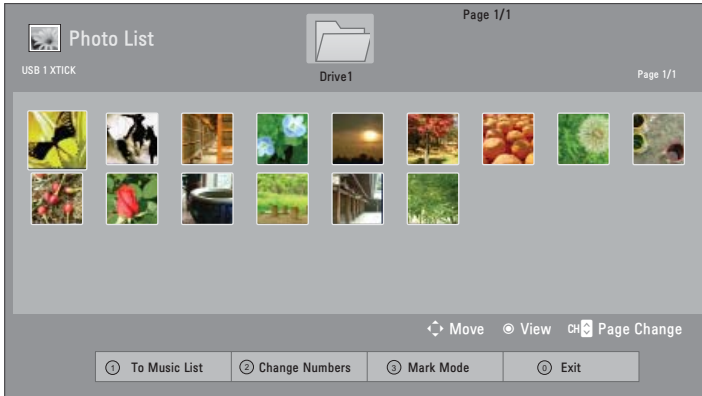
- 1  Select the target folder or drive.
- 2   Select the desired photo files.
- 3  Mark your desired photo files.
- 4  View the marked photo files.

- | | |
|---|---|
| 1 | View Marked: Display the selected photo. |
| 2 | Mark All: Mark all photos on the screen. |
| 3 | Unmark All: Deselect all marked photos. |
| 4 | 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

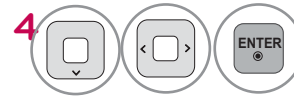
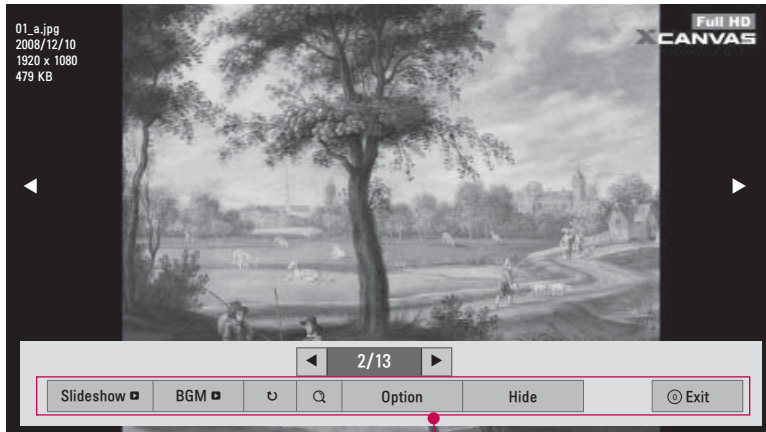
More operations are available in full screen mode.



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.

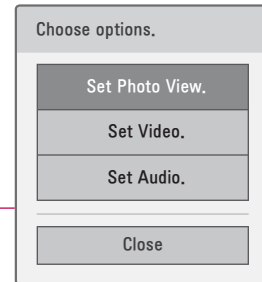
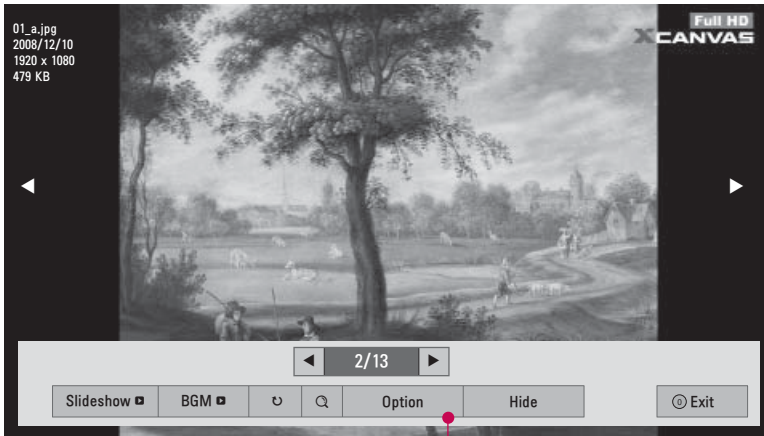






Select the **Slideshow**, **BGM**, **⌛ (Rotate)**, **🔍 (Zoom In)**, **Option**, or **Hide**.

■ 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.
- ▶ **BGM (Background Music):** Listen to music while viewing photos in full size.
 - Set the BGM device and album in **Option-Set Photo View** menu.
- ▶ **⌛ (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.
- ▶ **🔍 (Zoom In):** View the photo by zoom in 2, 4 times by using Blue button.
- ▶ **Option:** Set values for **Slide Speed** and **Music Album**.
 - You cannot change **Music Album** 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

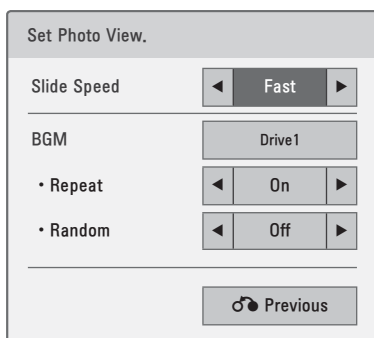




- 1   Show the **Option** menu.
- 2   Select **Set Photo View.**, **Set Video.**, or **Set Audio.**

NOTE

- ▶ Option values changed in Photo List do not affect Music List.

Set Photo View Menu Options

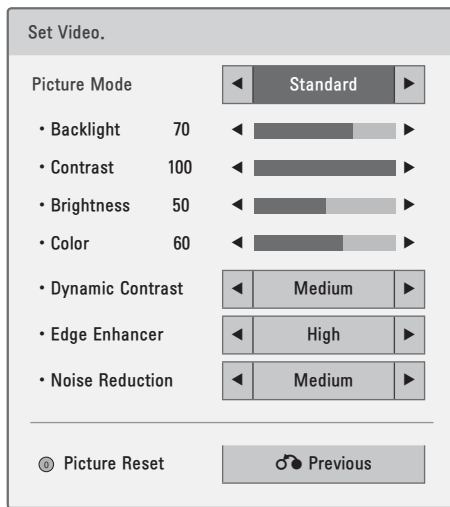


- 1  Select **Slide Speed** or **BGM**.
- 2  Make appropriate adjustments.

MY MEDIA

* Image shown may differ from your TV.

Set Video Menu Options

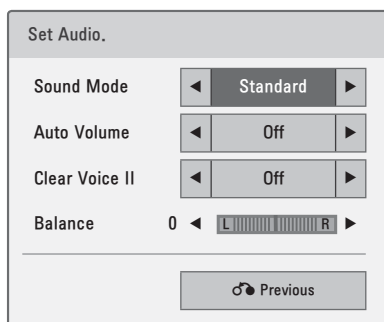


1 Select **Picture Mode**.



2 Make appropriate adjustments.

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.

- MUSIC (*.MP3) supporting file
- Bit rate 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
 - Sampling rate MPEG2.5 Layer3: 8 kHz, 11.025 kHz, 12 kHz

Screen Components

1 Select **MY MEDIA**.

2 Select **Music List**.

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

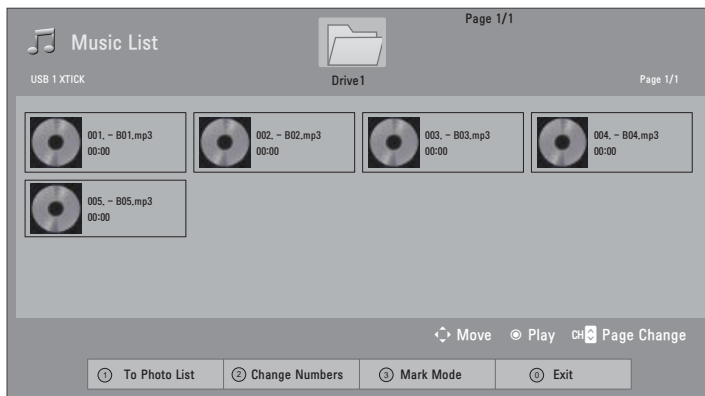
5 Contents under the folder focused on **1**





6 Current page/total pages of contents

1	Move to Photo List .
2	Change Numbers: Changes the number or thumbnails displayed at a time.
3	Allows you to mark certain files.
0	Return to TV viewing.

MY MEDIA

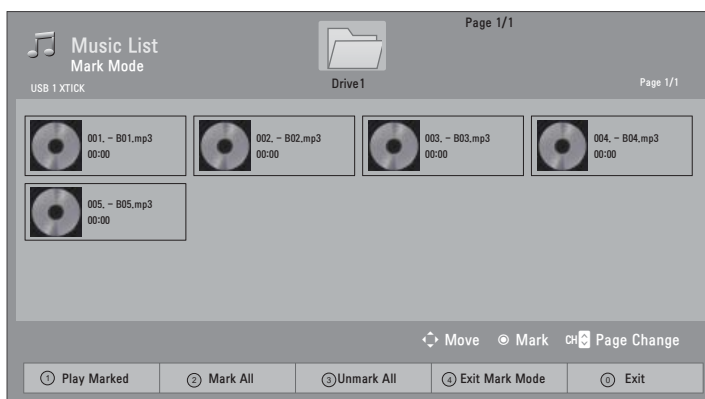
Music Selection








- 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

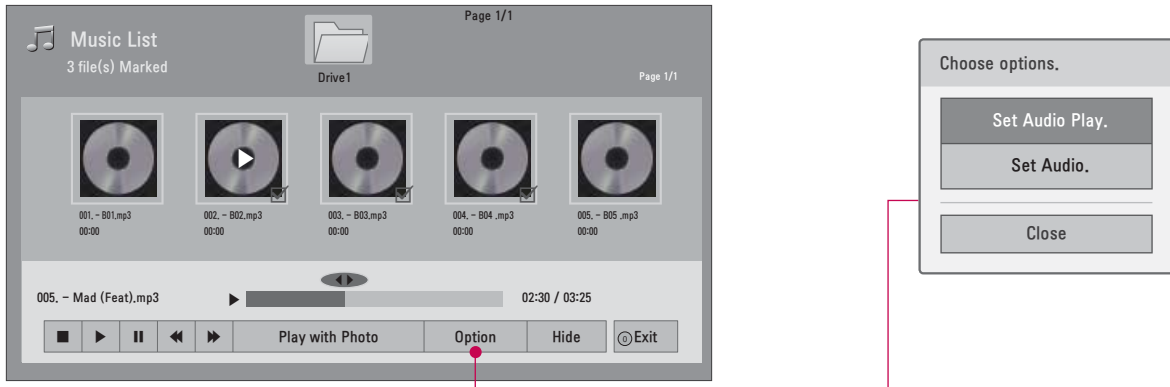






- 1  Select the target folder or drive.
- 2   Select the desired music file.
- 3  Mark your desired music file.
- 4  Play the marked music file.

- | | |
|---|--|
| 1 | Play Marked: Play the selected songs. Once a song finishes playing, the next selected one will be played automatically. |
| 2 | Mark All: Mark all songs in the folder. |
| 3 | Unmark All: Deselect all marked song. |
| 0 | 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..**

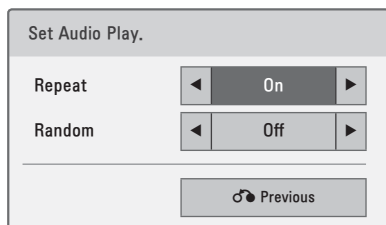
NOTE

- ▶ Option values changed in Music List does not affect Photo 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.
	A cursor indicating the position can be played on the screen.
	Move to the previous menu screen.

Set Audio Play Menu Options

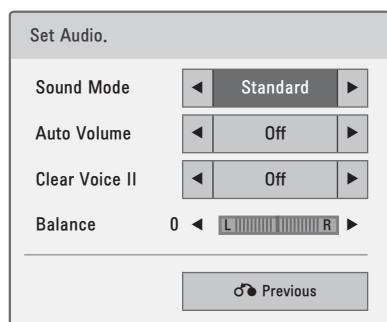


1 Select **Repeat** or **Random**.



2 Make appropriate adjustments.

Set Audio Menu Options

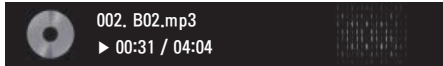


1 Select **Sound Mode**, **Auto Volume**, **Clear Voice II** or **Balance**.



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.

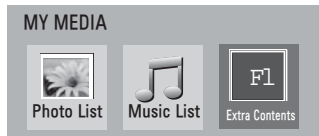


NOTE

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

EXTRA CONTENTS

Extra Contents will be activated when Data Channel service is available.



1 Select **MY MEDIA**.

2 Select **Extra Contents**.

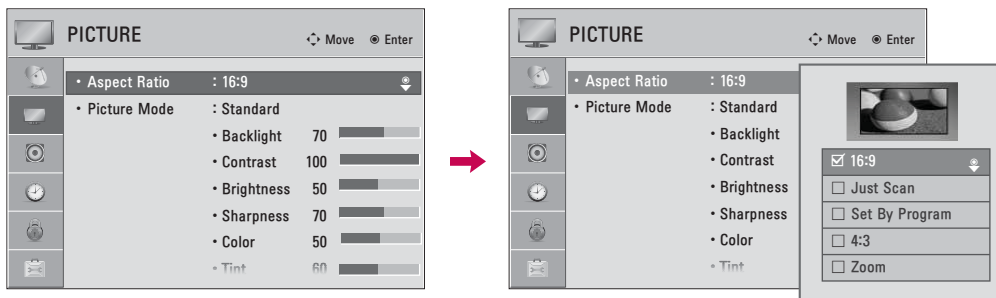
NOTE









- ▶ Pro:Centric contents in USB memory stick can be played.
- ▶ For more information, contact to Customer Support.(www.lgcommercial.com)

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).



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

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)



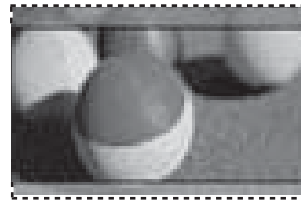
4:3

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



Zoom

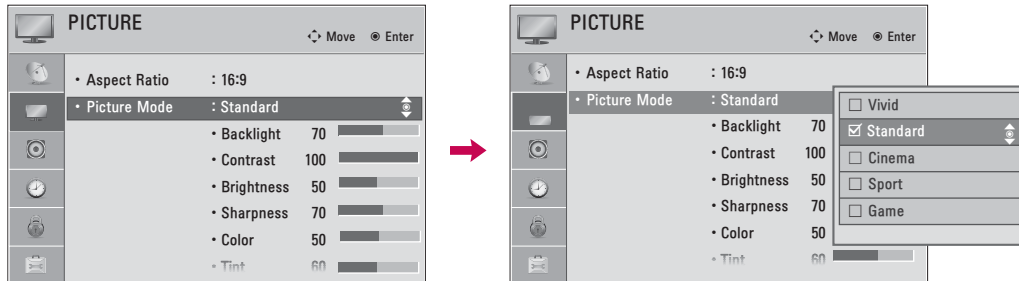
Choose Zoom when you want to view the picture without any alteration. However, the top and bottom portions of the picture will be cropped.











PICTURE CONTROL

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.

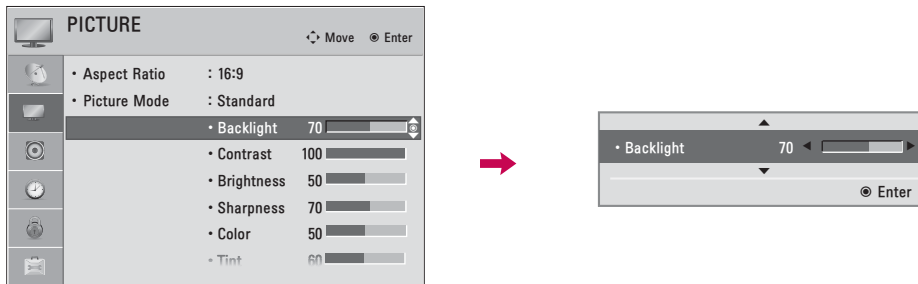













-   Select **PICTURE**.
-   Select **Picture Mode**.
-   Select **Vivid, Standard, Cinema, Sport,** or **Game**.
-  Return to the previous menu.
-  Return to TV viewing.

- **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.
- **Cinema:** This mode optimizes video for watching movies.
- **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.

MANUAL PICTURE ADJUSTMENT - USER MODE

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



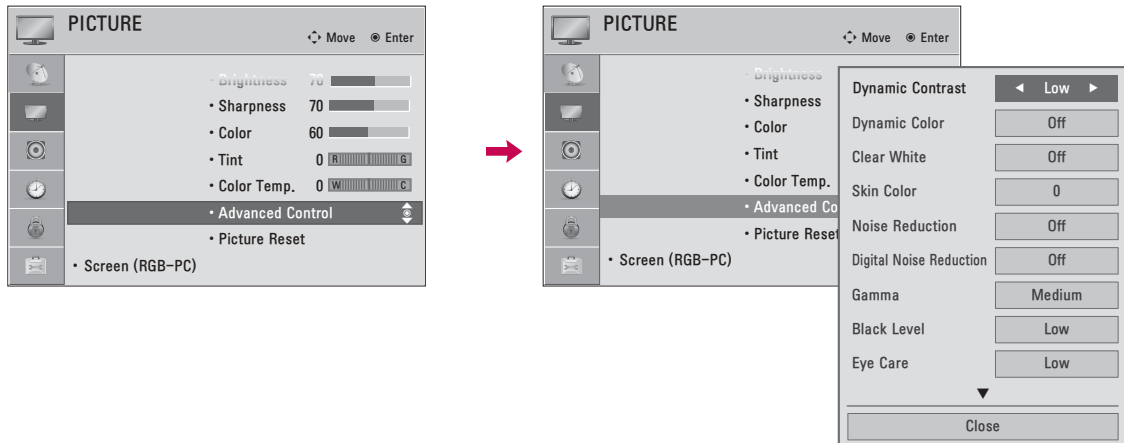
- 1   Select **PICTURE**.
- 2   Select **Picture Mode**.
- 3   Select **Vivid, Standard, Cinema, Sport, or Game**.
- 4   Select **Backlight, Contrast, Brightness, Sharpness, Color, Tint, Color Temp., or Advanced Control**.
- 5   Make appropriate adjustments.
- 6  Return to the previous menu.
-  Return to TV viewing.










- **Backlight:** 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.
- **Tint:** 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 CONTROL

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.



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

*This feature is not available for all models.

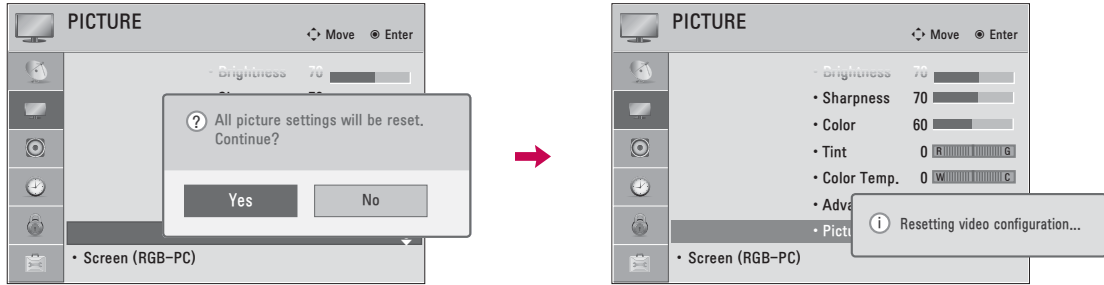
Dynamic Contrast	<ul style="list-style-type: none"> Adjusts the contrast to keep it at the best level according to the brightness of the screen. The picture is improved by making bright parts brighter and dark parts darker.
Dynamic Color	<ul style="list-style-type: none"> Adjusts screen colors so that they look livelier, richer and clearer. This feature enhances hue, saturation and luminance so that red, blue and green white 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	<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>Advanced Control</p> <ul style="list-style-type: none"> Maximize the utilization of colors to increase color quality. <p>Standard: Displays standard set of colors. Wide: Increase number of colors used.</p>
	<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

xvYCC	<ul style="list-style-type: none"> ■ This is produces richer colors. ■ This feature represents rich color as much as conventional video signal. ■ This function is enabled in "Picture Mode - Cinema, Expert" when a xvYCC signal is inputted through HDMI.
Color Temperature	<ul style="list-style-type: none"> ■ Adjusts the overall color of the screen by changing the white baseline. <ul style="list-style-type: none"> a. Gamma : Select 1.9, 2.2, 2.4 b. 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. c. Method : 10 Point IRE <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. d. 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.









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.

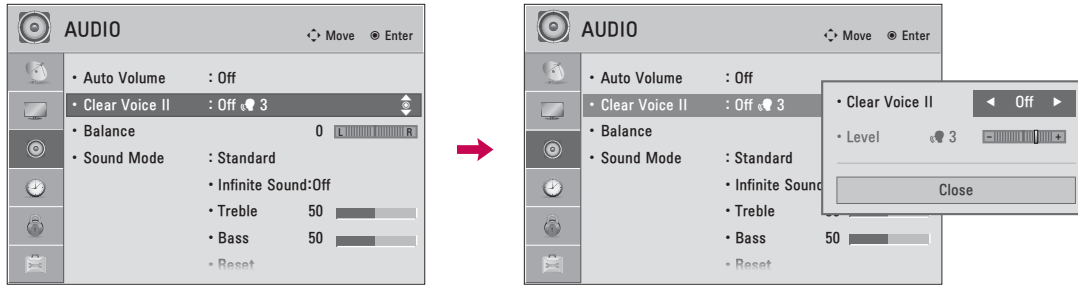
Because each broadcasting station has its own signal conditions, volume adjustment may be needed every time the channel is changed. This feature allows users to enjoy stable volume levels by making automatic adjustments for each program.



-   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.

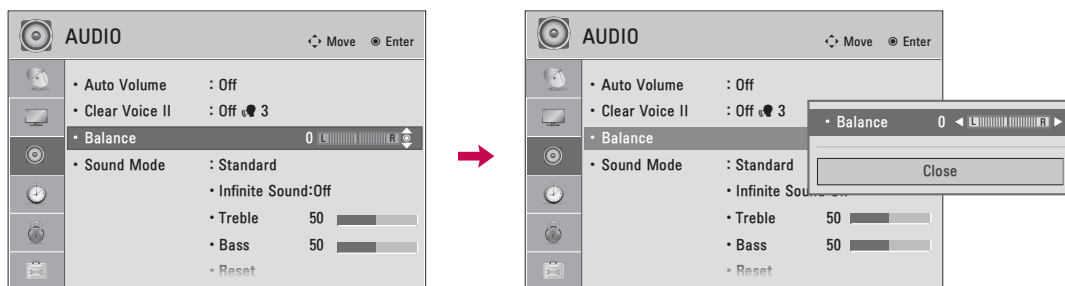
6  Return to the previous menu.







 Return to TV viewing.

SOUND & LANGUAGE CONTROL

BALANCE

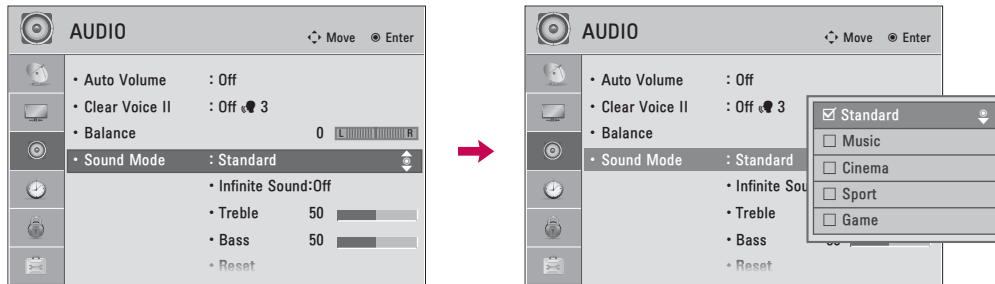
Adjust the left/right sound of speaker to suit your taste and room situations.











-   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.



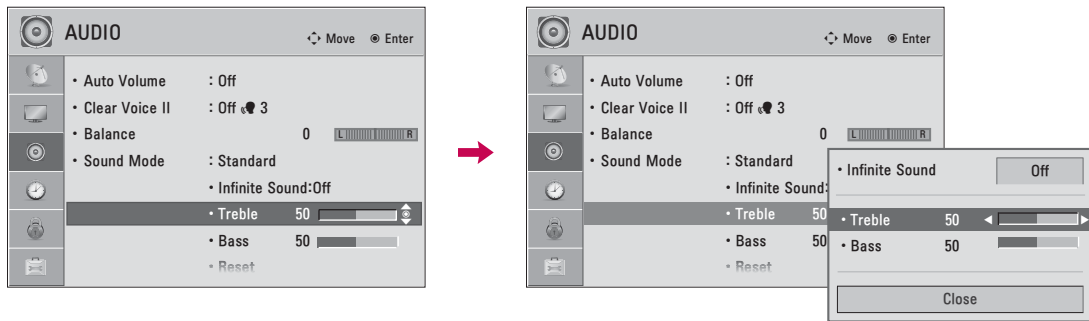
- 1   Select **AUDIO**.
- 2   Select **Sound Mode**.
- 3   Select **Standard, Music, Cinema, Sport, or Game**.
- 4  Return to the previous menu.
-  Return to TV viewing.













- **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.

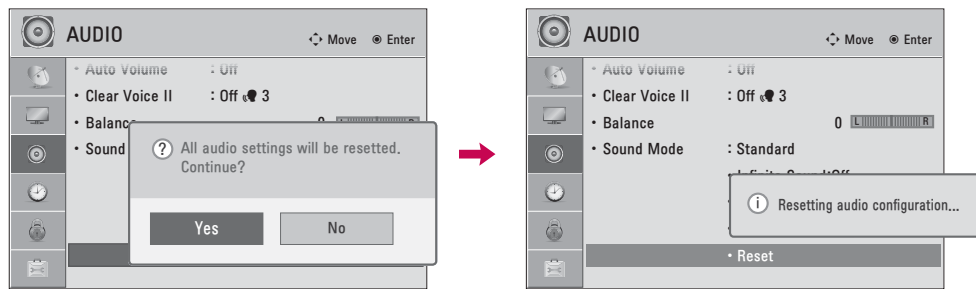










- 1   Select **AUDIO**.
- 2   Select **Sound Mode**.
- 3   Select **Standard, Music, Cinema, Sport, or Game**.
- 4   Select **Infinite Sound, Treble, or Bass**.
- 5   Make appropriate adjustments.
- 6  Return to the previous menu.
-  Return to TV viewing.

- 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.

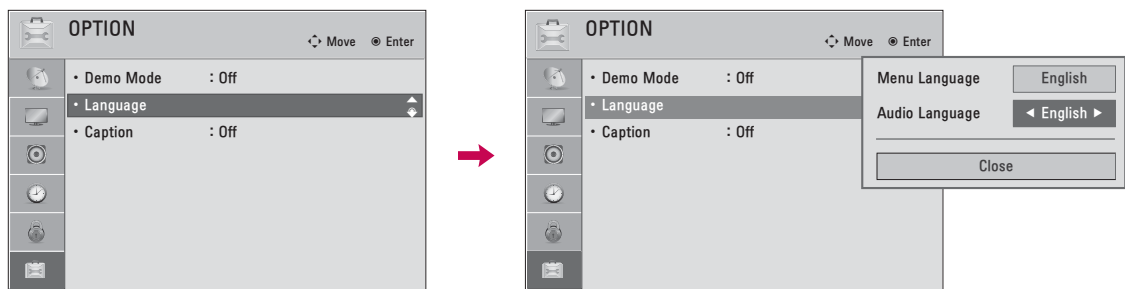











- 1   Select **AUDIO**.
- 2   Select **Reset**.
- 3   Select **Yes**.
- 4  Initialize the adjusted value.
-  Return to TV viewing.

SOUND & LANGUAGE CONTROL

AUDIO LANGUAGE

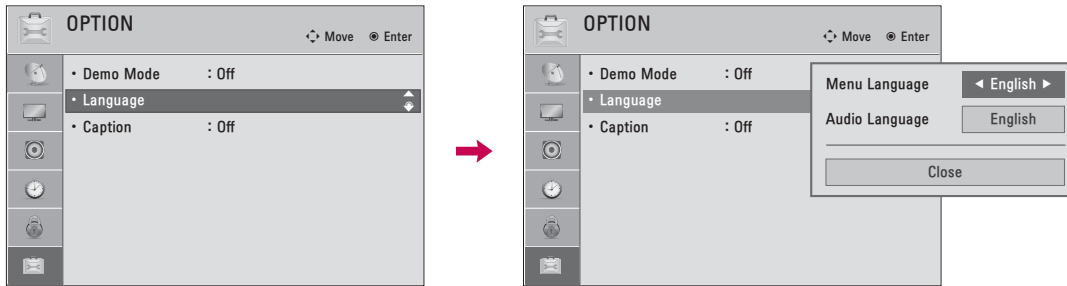
This feature operates only in DTV/Cable DTV mode.












-   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.



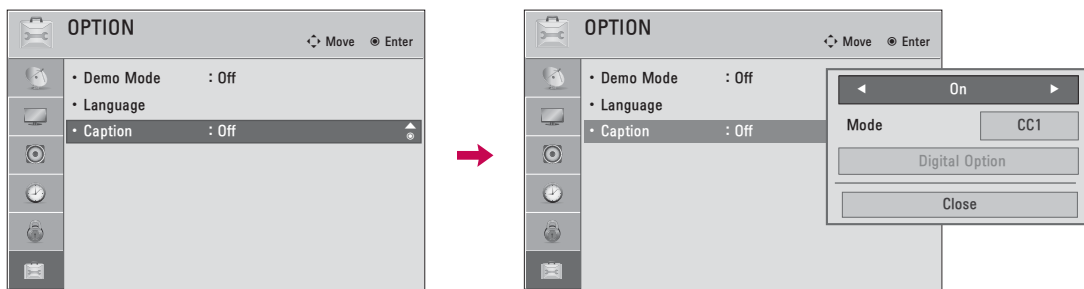
- 1   Select **OPTION**.
- 2   Select **Language**.
- 3   Select **Menu Language**.
- 4  Select your desired language.
From this point on, the on-screen menus will be shown in the selected language.
- 5  Return to the previous menu.
-  Return to TV viewing.










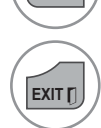
SOUND & LANGUAGE CONTROL

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**.



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

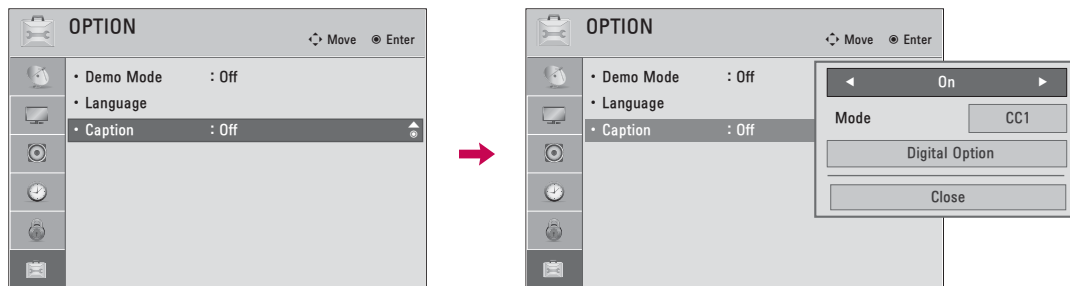
- When selecting **Off**, Sub-menus for Analog, DTV, and Digital Option become disabled.
- **Caption**
The term for the words that scroll across the bottom of the TV screen; usually the audio portion of the program provided for the hearing impaired.
- **Text**
The term for the words that appear in a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



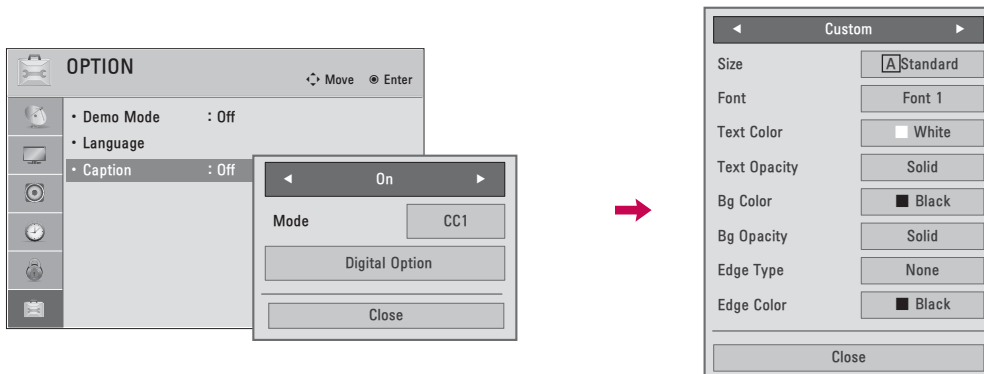
- 1   Select **OPTION**.
- 2   Select **Caption**.
- 3   Select **On**.
- 4   Select **CC1-4, Text1-4, or Service1 - 6**.
- 5  Return to the previous menu.
-  Return to TV viewing.

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

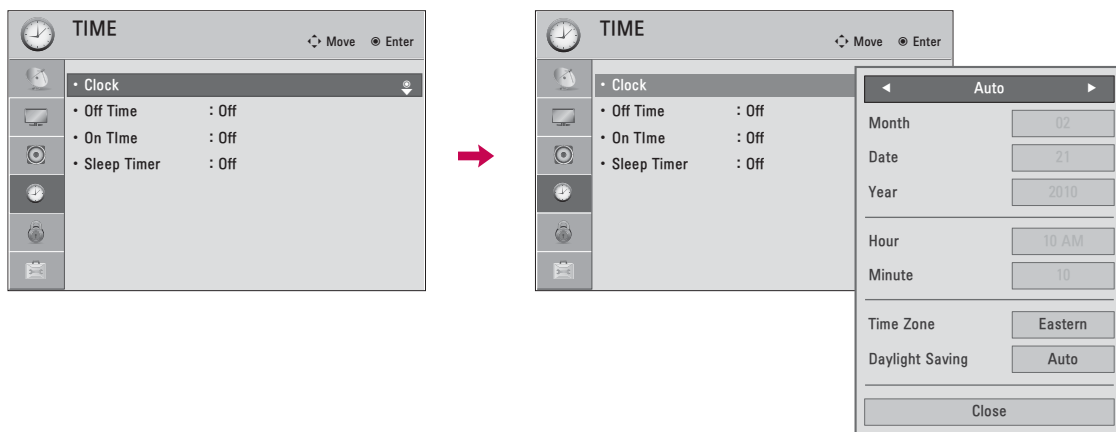
CLOCK SETTING













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.

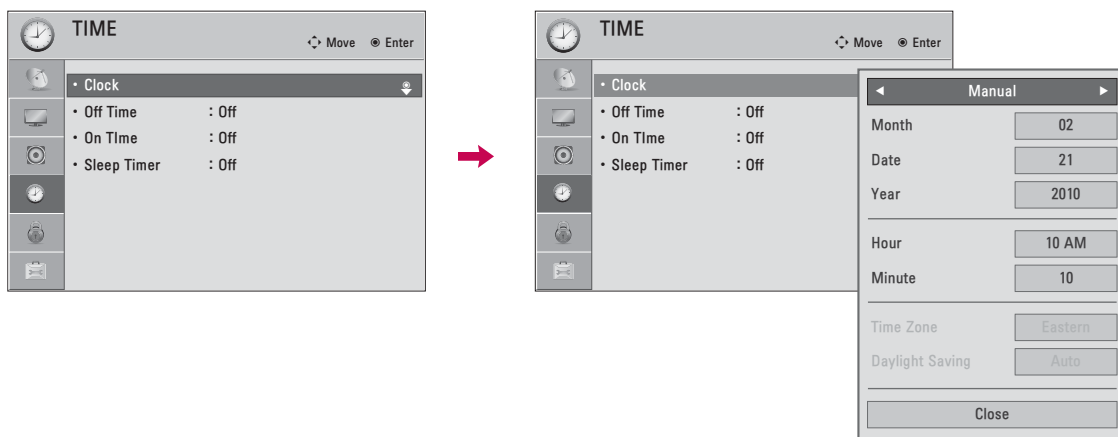












-   Select **TIME**.
-   Select **Clock**.
-   Select **Auto**.
-   Select your viewing area time zone.
Eastern, Central, Mountain, Pacific, Alaska, or Hawaii.
-   Select **Auto**, **Off**, or **On** (depending on whether or not your viewing area observes Daylight Saving time).
-  Return to the previous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

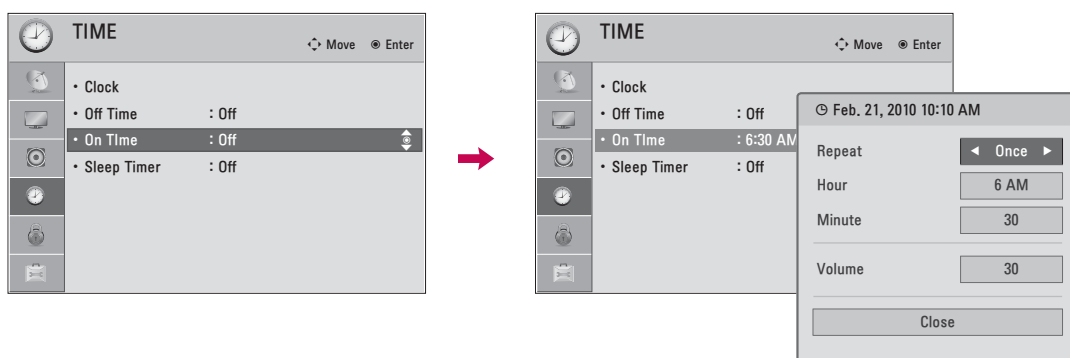
AUTO ON/OFF TIME SETTING












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.



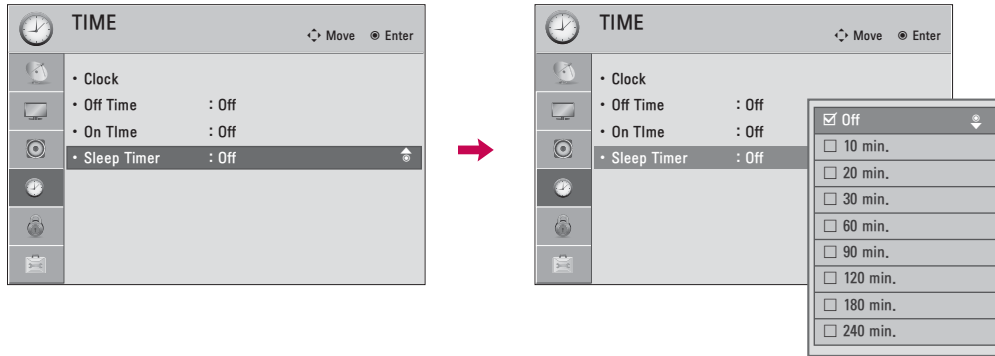
- 1   Select **TIME**.
- 2   Select **Off Time** or **On Time**.
- 3   Select **Repeat**.
- 4  Select **Off**, **Once**, **Daily**, **Mon.~Fri.**, **Mon.~Sat.**, **Sat.~ Sun.**, or **Sun.**.
- 5   Select and set Hour or Minute.
- 6  Return to the previous menu.
-  Return to TV viewing.


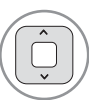




TIME SETTING

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**.

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.

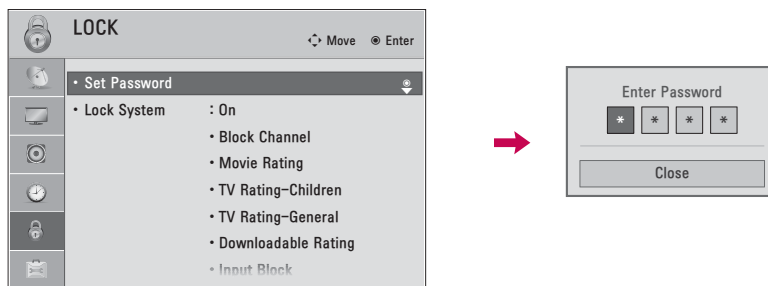
Ratings for Television programs including made-for-TV movies:





- 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.



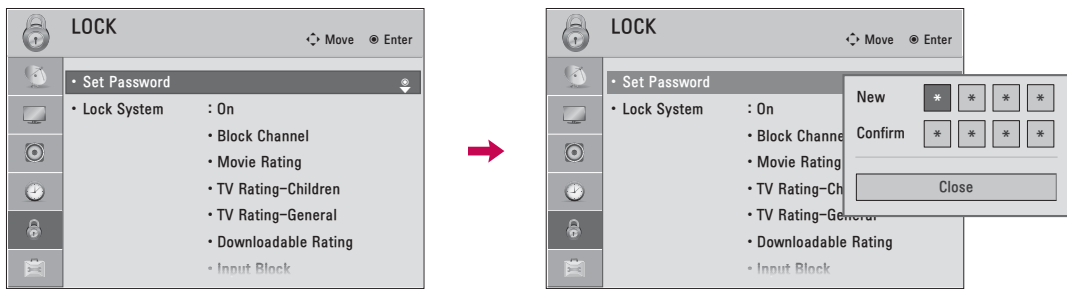
1.    Select **LOCK**.
2.  Input the password.


- 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**.

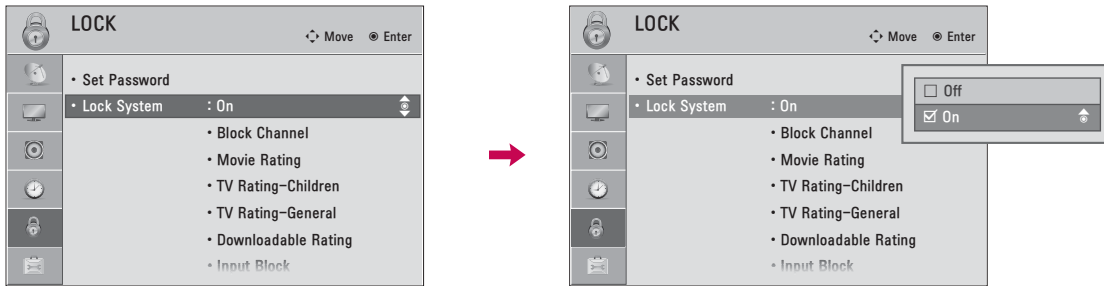
4   Choose any 4 digits for your new password.
As soon as the 4 digits are entered, re-enter the same 4 digits on the **Confirm**.




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.

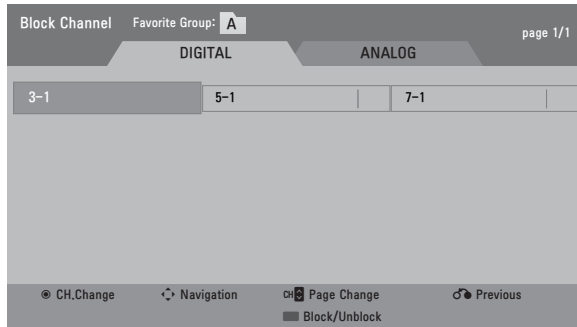
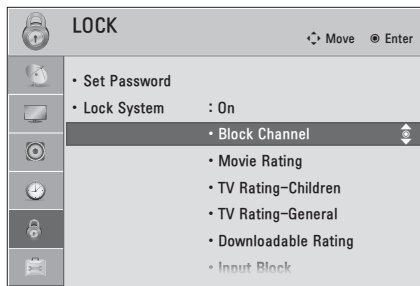
 Return to TV viewing.


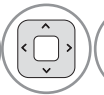








■ When you select **On**, the Lock System is enable.

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.



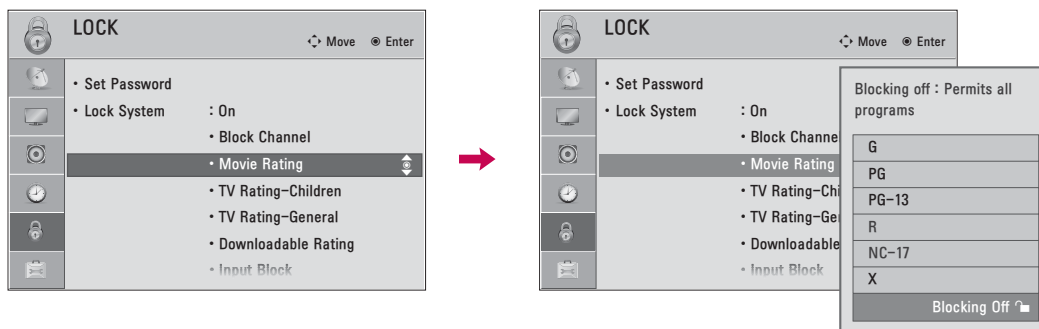
-    Select **LOCK**.
-  Input the password.
-  Select **Block Channel**.
-   Select a channel to block or unblock.
-  Block or unblock a channel.
-  Return to the previous menu.
-  Return to TV viewing.

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

MOVIE & TV RATING

Movie Rating (MPAA)

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.



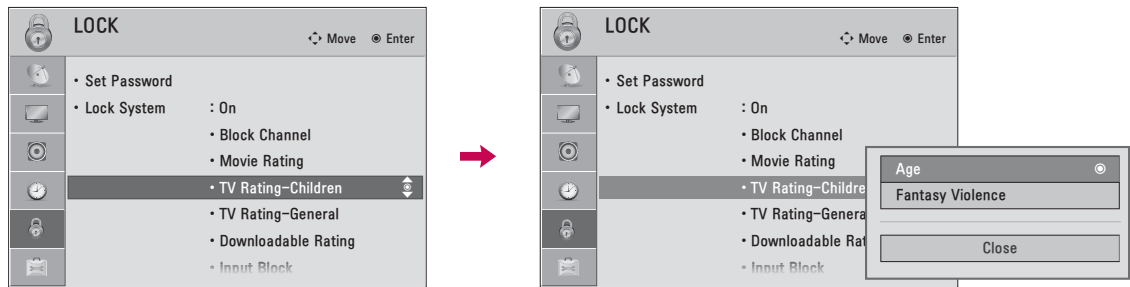
- 1 Select **LOCK**.
- 2 Input the password.
- 3 Select **Movie Rating**.
- 4 Select **G, PG, PG-13, R, NC-17, X, or Blocking Off**.
- 5 Return to the previous menu.
- Return to TV viewing.




- 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

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.

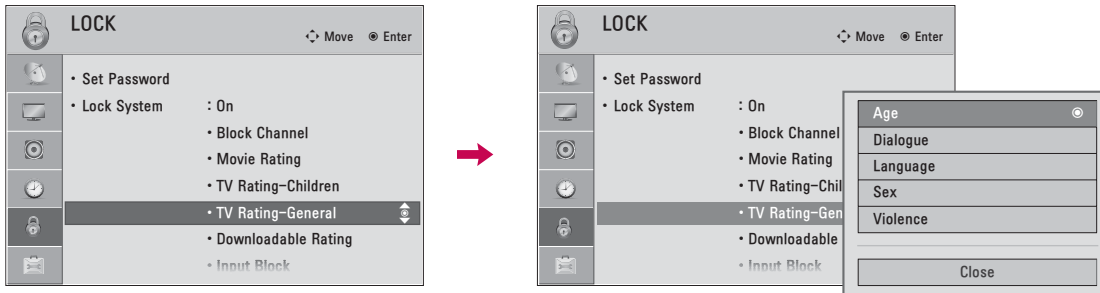
6  Return to the previous menu.

 Return to TV viewing.

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

TV Rating General

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.

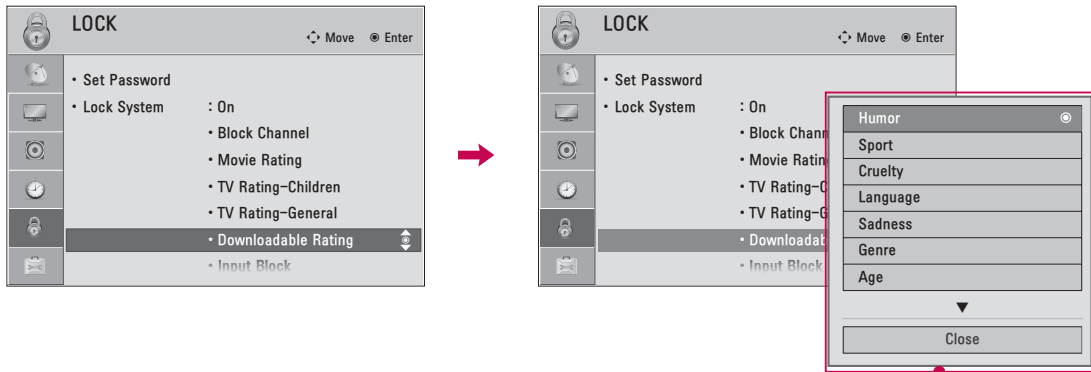
- **Age** (applies to TV-G,TV-PG,TV-14,TV-MA).
- **Dialogue**-sexual dialogue (applies to TV-PG,TV-14).
- **Language**-adult language (applies to TV-PG, TV-14, TV-MA).
- **Sex**-sexual situations (applies to TV-PG, TV-14, TV-MA).
- **Violence** (applies to TV-PG, TV-14, TV-MA).

PARENTAL CONTROL / RATINGS


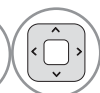









DOWNLOADABLE RATING

This function is available only for digital channels.

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



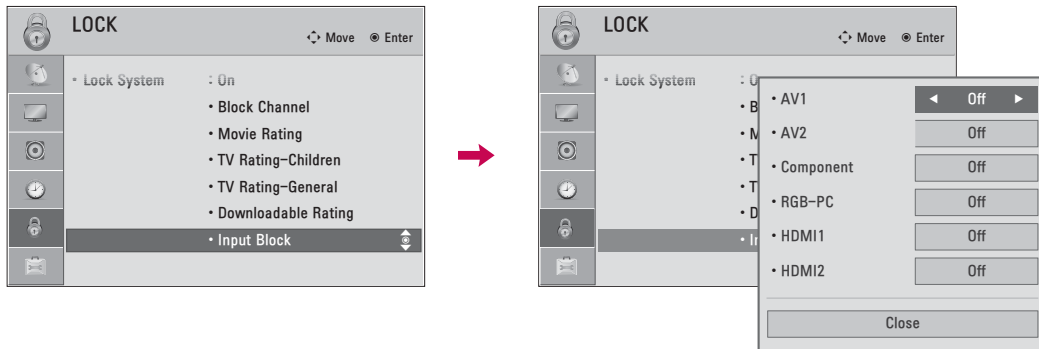
■ Based on rating table, your TV's OSD (On Screen Display) may differ slightly from what is shown in this manual.

-    Select **LOCK**.
-  Input the password.
-  Select **Downloadable Rating**.
-   Select desired **Downloadable Rating** option.
-   Select desired option and block it.
-  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.



i.e)


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.

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"> If an HDMI cable doesn't support High Speed HDMI, it can cause flickers or no screen display. In this case use the latest cables that support High Speed HDMI.

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 High Speed HDMI cable. 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.

APPENDIX

Movie List Problems	
The file does not appear on the Movie List.	<ul style="list-style-type: none">■ Check whether the file extension is supported.
Message is displayed saying "This file is invalid" or the audio is working normally but the video is not working normally.	<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.
Message is displayed saying "Unsupported Audio" or the video is working normally but the audio is not working normally.	<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.
Subtitle is not working.	<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.)

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.

APPENDIX

PRODUCT SPECIFICATIONS

MODELS		26LD320H (26LD320H-UA)	32LD320H (32LD320H-UA)
Dimensions (Width x Height x Depth)	With stand	805.0 mm x 585.0 mm x 206.8 mm (31.6 inch x 23.0 inch x 8.1 inch)	805.0 mm x 585.0 mm x 206.8 mm (31.6 inch x 23.0 inch x 8.1 inch)
	Without stand	805.0 mm x 528.2 mm x 108.9 mm (31.6 inch x 20.7 inch x 4.2 inch)	805.0 mm x 528.2 mm x 108.9 mm (31.6 inch x 20.7 inch x 4.2 inch)
Weight	With stand	13.1 kg (28.8 lbs)	13.1 kg (28.8 lbs)
	Without stand	11.4 kg (25.1 lbs)	11.4 kg (25.1 lbs)

MODELS		37LD320H (37LD320H-UA)	42LD320H (42LD320H-UA)
Dimensions (Width x Height x Depth)	With stand	922.0 mm x 650.0 mm x 260.8 mm (36.2 inch x 25.5 inch x 10.2 inch)	1028.0 mm x 706.4 mm x 260.8 mm (40.4 inch x 27.8 inch x 10.2 inch)
	Without stand	922.0 mm x 595.0 mm x 88.0 mm (36.2 inch x 23.4 inch x 3.4 inch)	1028.0 mm x 655.0 mm x 88.7 mm (40.4 inch x 25.7 inch x 3.4 inch)
Weight	With stand	15.6 kg (34.3 lbs)	17.9 kg (39.4 lbs)
	Without stand	13.0 kg (28.6 lbs)	15.3 kg (33.7 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.

IR CODE

Code (Hexa)	Function	Note	Code (Hexa)	Function	Note
00	CH ▲	Remote Control Button	B0	▶	Remote Control Button
01	CH ▼	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	C4	POWER ON	Discrete IR Code (Only Power On)
07	◀	Remote Control Button		POWER OFF	Discrete IR Code (Only Power Off)
08	⏻	Remote Control Button (Power On/Off)	C5		
09	MUTE	Remote Control Button	5A	AV or AV1	Discrete IR Code (AV1 Input Selection)
0B	INPUT	Remote Control Button	D0	AV2	Discrete IR Code (AV2 Input Selection)
0F	TV	Remote Control Button			
10-19	Number 0-9	Remote Control Button	BF	COMPONENT	Discrete IR Code (Component Input Selection)
1A	FLASHBK	Remote Control Button	D5	RGB-PC	Discrete IR Code (RGB-PC Input Selection)
AA	INFO	Remote Control Button	CE	HDMI1	Discrete IR Code (HDMI1 Input Selection)
28	BACK	Remote Control Button			
E8	ALAM	Remote Control Button	CC	HDMI2	Discrete IR Code (HDMI2 Input Selection)
40	▲	Remote Control Button	E9	HDMI3	Discrete IR Code (HDMI3 Input Selection)
41	▼	Remote Control Button	DA	HDMI4	Discrete IR Code (HDMI4 Input Selection)
43	MENU	Remote Control Button	76	Ratio 4:3	Discrete IR Code (Only 4:3 Mode)
44	ENTER	Remote Control Button	77	Ratio 16:9	Discrete IR Code (Only 16:9 Mode)
OE	TIMER	Remote Control Button	AF	Ratio Zoom	Discrete IR Code (Only Zoom Mode)
4C	- (Dash)	Remote Control Button			
5B	EXIT	Remote Control Button			
61	BLUE	Remote Control Button			
63	YELLOW	Remote Control Button			
71	GREEN	Remote Control Button			
72	RED	Remote Control Button			
79	RATIO	Remote Control Button			
OC	PORTAL	Remote Control Button			
8E	▶▶	Remote Control Button			
8F	◀◀	Remote Control Button			
AB	GUIDE	Remote Control Button			
39	CC	Remote Control Button			
CA	EJECT	Remote Control Button			
0A	SAP	Remote Control Button			

■ Use this feature depending on your models.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessories, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executable containing this object code plus portions of

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6. As an exception to the sections above, you may also combine or link a "work that uses the library" with the library to produce a work containing portions of the library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the library is used in it and that the Library and its use are covered by this license. You must supply a copy of this license. If the work during execution displays copyright notices, you must include the copyright notice for the library among them, as well as a reference directing the user to the copy of this license. Also, you must do one of these things:

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Version 1.1

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NOTE: The text of this exhibit A may differ slightly from the text of the notices in the source code files of the original code. You should use the text of this exhibit A rather than the text found in the original code/source code for Your modifications.



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.

MODEL _____

SERIAL _____