LG
Life's Good

OWNER'S MANUAL

LED LCD TV / LCD TV

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

LED LCD TV MODELS

19LE5300
22LE5300
26LE5300
22LE5500
26LE5500
32LE5300
37LE5300
42LE5300
47LE5300
55LE5300
42LE7300
47LE7300
55LE7300

LCD TV MODELS

32LD420
42LD420
47LD420
32LD450
37LD450
42LD450
47LD450
37LD450C
42LD450C
47LD450C
32LD520
42LD520
47LD520
55LD520
55LD520C
42LD630
47LD630
55LD630

P/NO : SAC34134204 (1007-REV07)

www.lg.com

WARNING / CAUTION



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.

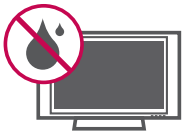
SAFETY INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS

Read these instructions.
Keep these instructions.
Heed all warnings.
Follow all instructions.



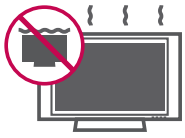
1. Do not use this apparatus near water.



2. Clean only with dry cloth.



3. Do not block any ventilation openings. Install in accordance with the ma nufacturer'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.

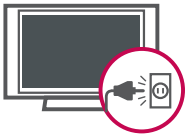


8. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.





9. Unplug this apparatus during lighting 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.



SAFETY INSTRUCTIONS

11 Never touch this apparatus or antenna during a thunder or lighting 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 recommend 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 use a damaged or loose power cord. Do not pull on the power cord to unplug the TV. Grasp the plug when unplugging the power cord.



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.



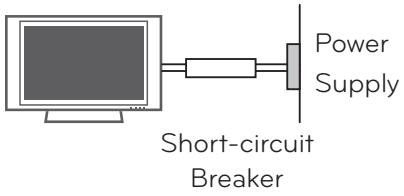
16 Do not expose to dripping or splashing and do not place objects filled with liquids, such as vases, cups, etc. on or over the apparatus (e.g. on shelves above the unit).



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, lightening 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 AC power even if you turn off the power switch on the unit.

20 ANTENNAS

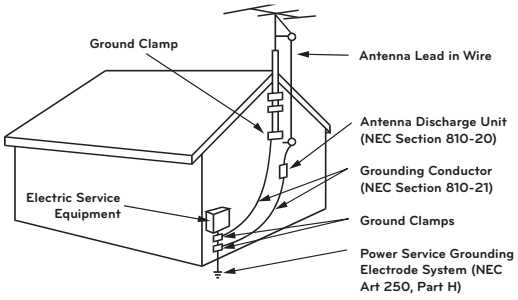
Outdoor antenna grounding

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

21 Cleaning

When cleaning, unplug the power cord and rub 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.

22 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.

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

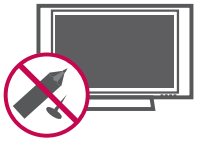
Take care not to touch the ventilation openings. When watching the TV for a long period, the ventilation openings may become hot.

25

If you smell smoke or other odors coming from the TV or hear strange sounds, unplug the power cord contact an 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

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.

AV Mode is three preset picture and audio settings. It allows the viewer to quickly switch between common settings. It includes Cinema, Sports, and Game Modes.

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 s 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.

Unlike other sensors which can only sense brightness of ambient light, LG's "Intelligent Sensor" uses 4,096 sensing steps to evaluate its surroundings. Using a sophisticated algorithm, the LG processes picture quality elements including brightness, contrast, color, sharpness and white balance. The result is a picture optimized for it's surroundings, more pleasing to watch and which can also save up to 50% in power consumption.

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."

Displays HDTV programs in full 1920 x 1080p resolution for a more detailed picture.

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

ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX,Inc. This is an official DivX Certified device that plays DivX video. Visit www.divx.com for more information and software tools to convert your files into DivX video.

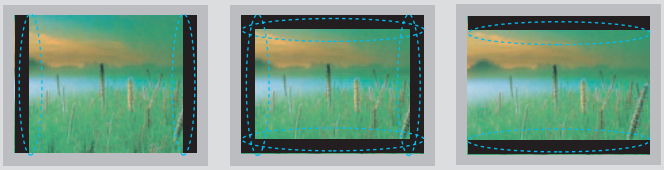
ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play DivX Video-on-Demand (VOD) content. To generate the registration code, locate the DivX VOD section in the device setup menu. Go to vod.divx.com with this code to complete the registration process and learn more about DivX VOD.

"DivX Certified to play DivX video up to HD 1080p, including premium content"

"Pat. 7,295,673; 7,460,688;7,519,274"

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 letterboxed areas of your TV if you use the 4:3 aspect ratio setting for an extended period.

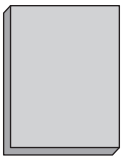


PREPARATION

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.

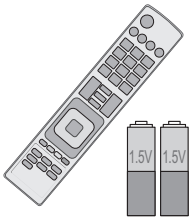
The accessories included may differ from the images below.



Owner's Manual

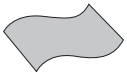


CD Manual



Remote Control,
Batteries (AAA)

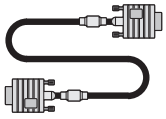
Not included with all models



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.

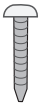
19/22/26LE5300, 22/26LE5500



x 4

(M4 x 14)

(For 26LE5300, 26LE5500)



x 4

(M4 x 20)

Screws for stand assembly
(Refer to P.20, 22)



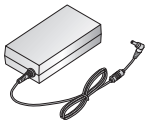
Cable Holder
(Refer to p.31)

(For 26LE5300, 26LE5500)



x 4

Ring spacers
(Refer to p.29)

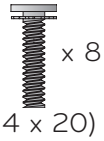


AC/DC Adapter



Power Cord

32/37/42/47LD450, 37/42/47LD450C, 42/47/55LD630

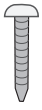


x 8

(M4 x 20)

Screws for stand assembly
(Refer to P.24)

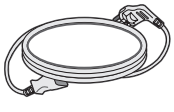
(For 32/37/42LD450, 37/42/LD450C, 42LD630)



Screws for stand fixing
(Refer to P.33)

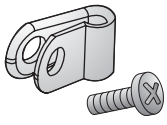


Protection Cover
(Refer to P.25)



Power Cord

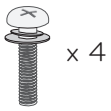
(For 37/42/47LD450C)



Protective Bracket and Screw for Power Cord
(Refer to P.30)

PREPARATION

32/42/47LD420, 32/42/47/55LD520, 55LD520C


x 4

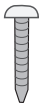
(M4 x 24)
Screws for stand assembly
(Refer to P.26)

(For 55LD520C)

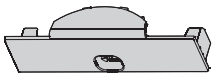

x 2

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

(Except 47LD420, 47/55LD520, 55LD520C)



Screw for stand fixing
(Refer to P.33)

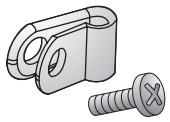


Protection Cover
(Refer to P.27)



Power Cord

(For 55LD520C)



Protective Bracket and Screw for Power Cord
(Refer to P.30)

32/37/42/47/55LE5300, 42/47/55LE7300

(32/37/42/47/55LE5300)

(32LE5300)


x 4

(M4 x 22)

(37/42LE5300)


x 4

(M4 x 24)

(47/55LE5300)


x 4

(M4 x 26)


x 4

(M4 x 16)

Screws for stand assembly
(Refer to P.22)

(42/47LE7300)


x 3

(M4 x 20)


x 4

(M4 x 12)

(55LE7300)


x 3

(M4 x 26)

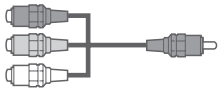

x 4

(M4 x 16)

Screws for stand assembly
(Refer to P.21)



Cable Holder
(Refer to p.31)


x 2

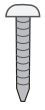
Component gender cable, AV gender cable

(For 42/47/55LE7300)



Cable Management Clip
(Refer to p.31)

(For 32LE5300)

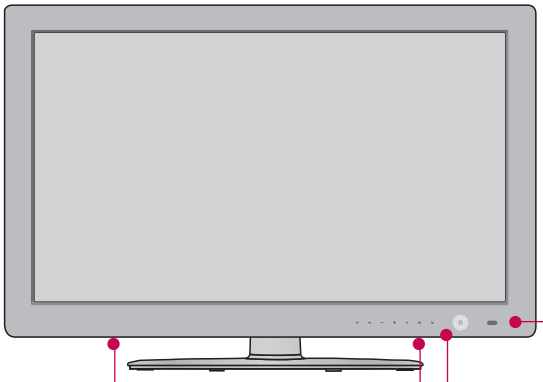


Screw for stand fixing
(Refer to P.33)

FRONT PANEL INFORMATION

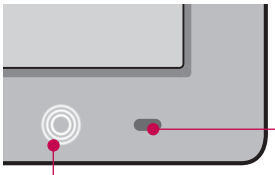
■ Image shown may differ from your TV.

19/22/26/32/37/42/47/55LE5300, 22/26LE5500



SPEAKER

19/22/26LE5300, 22/26LE5500

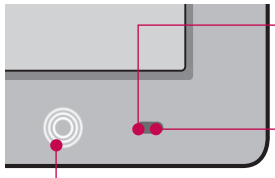


Remote Control Sensor

Power/Standby Indicator

(Can be adjusted using the **Power Indicator** in the OPTION menu.▶**p.111**)

32/37/42/47/55LE5300



Remote Control Sensor

Intelligent Sensor

Adjusts picture according to the surrounding conditions

Power/Standby Indicator

(Can be adjusted using the **Power Indicator** in the OPTION menu.▶**p.111**)

19/22/26LE5300, 22/26LE5500



CHANNEL (∨,∧) Buttons

VOLUME (-, +) Buttons

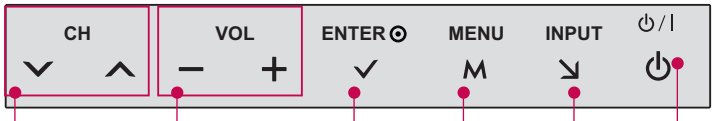
ENTER Button

MENU Button

INPUT Button

POWER Button

32/37/42/47/55LE5300



CHANNEL (∨,∧) Buttons

VOLUME (-, +) Buttons

ENTER Button

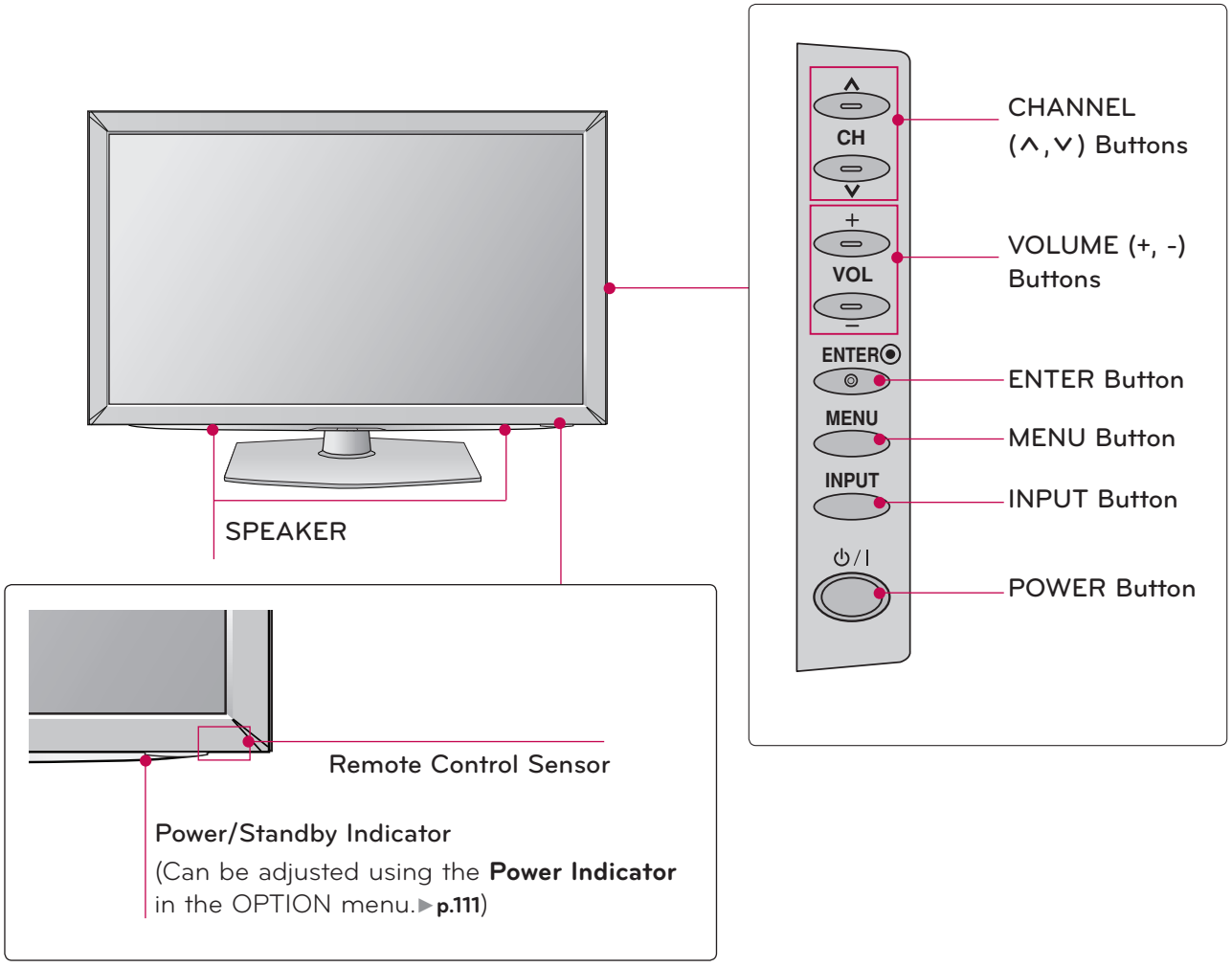
MENU Button

INPUT Button

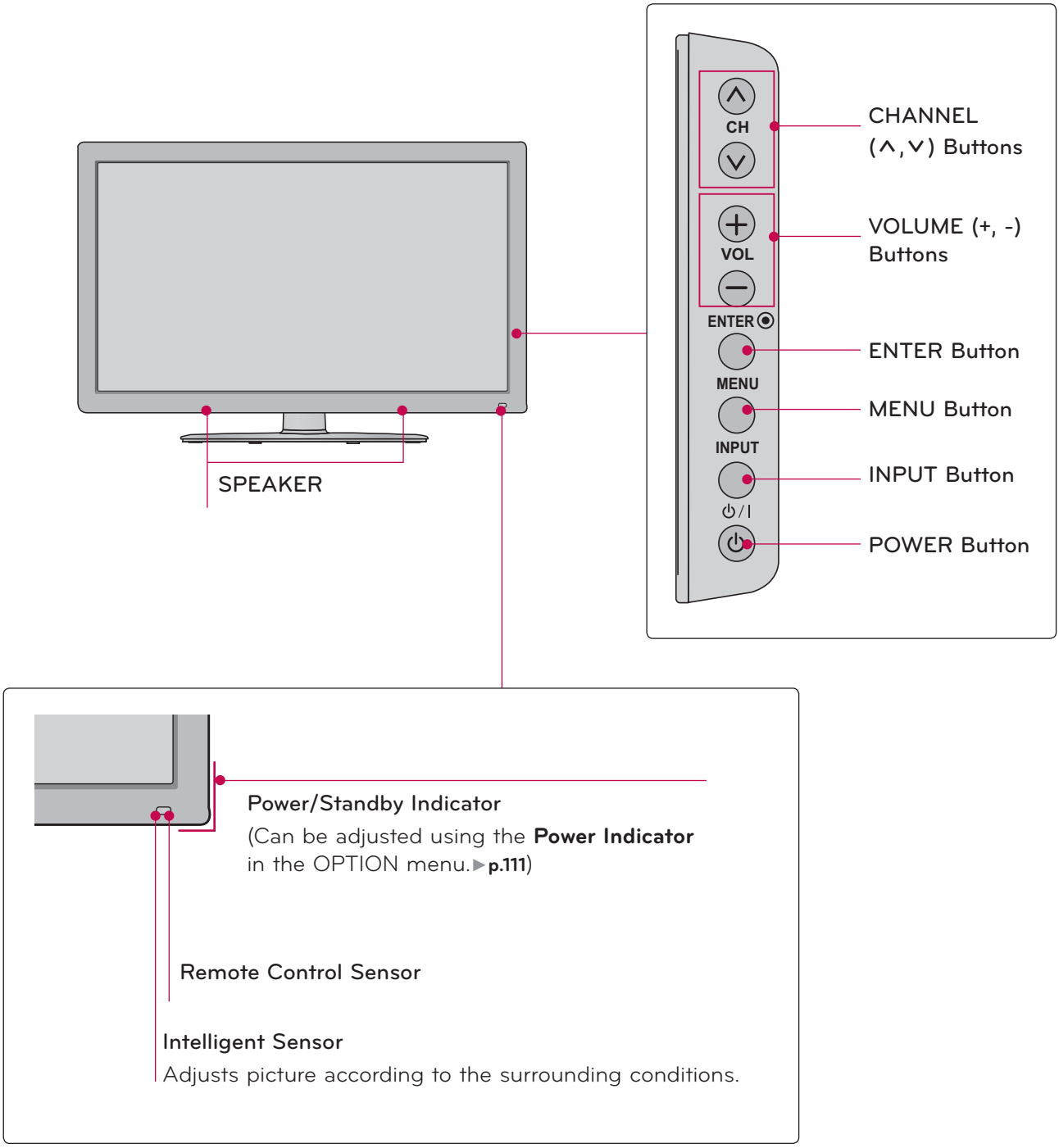
POWER Button

■ Image shown may differ from your TV.

32/37/42/47LD450, 37/42/47LD450C

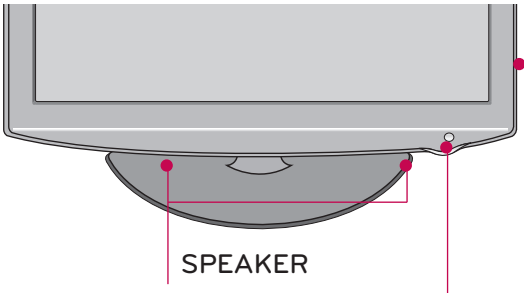


42/47/55LD630



■ Image shown may differ from your TV.

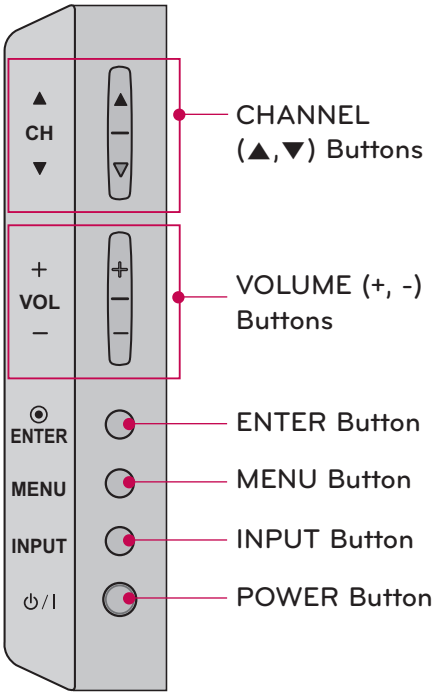
32/42/47LD420



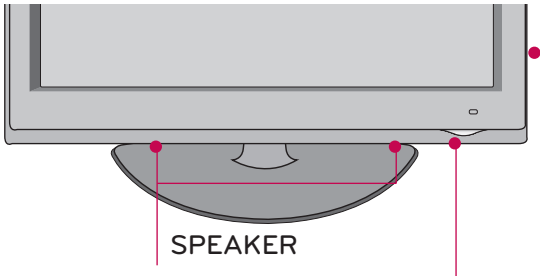
Remote Control Sensor

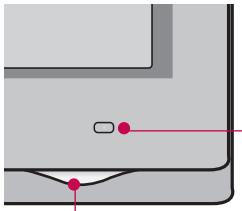
Power/Standby Indicator

(Can be adjusted using the **Power Indicator** in the OPTION menu.▶**p.111**)



32/42/47/55LD520, 55LD520C



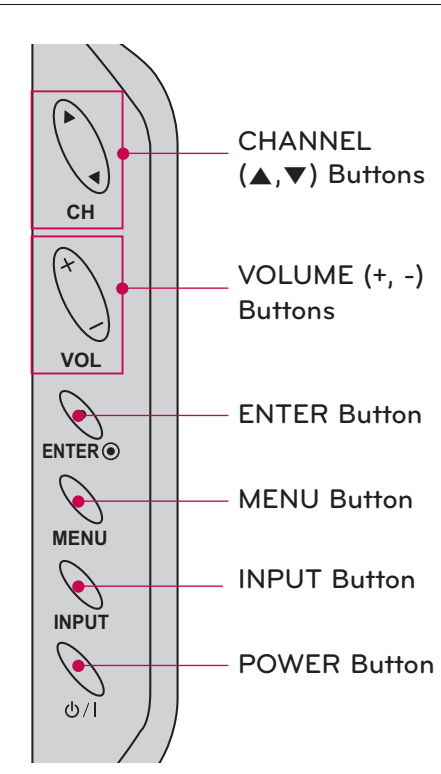


Remote Control Sensor, Intelligent Sensor

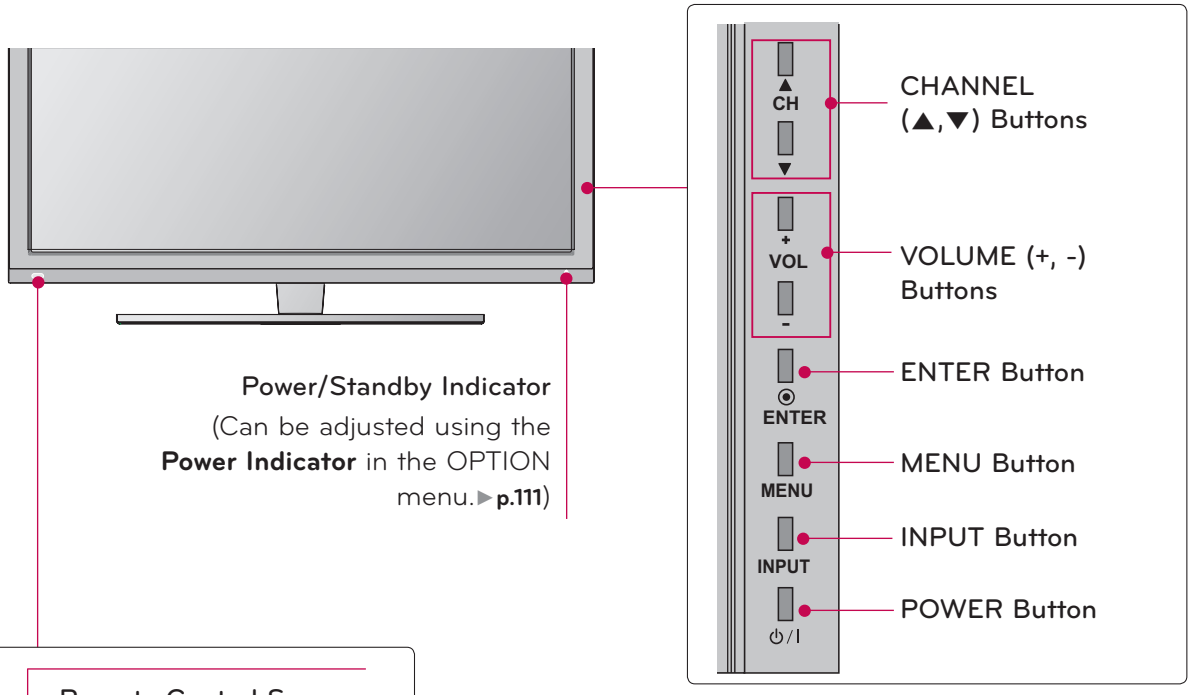
Adjusts picture according to the surrounding conditions

Power/Standby Indicator

(Can be adjusted using the **Power Indicator** in the OPTION menu.▶**p.111**)



42/47/55LE7300



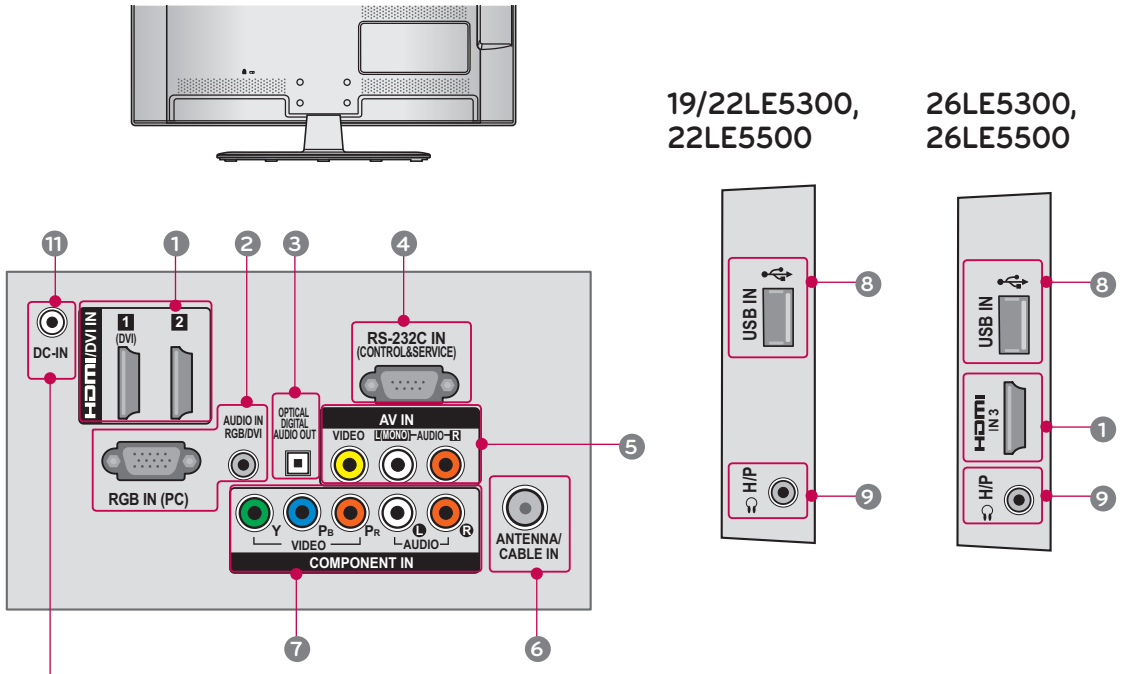
NOTE

- ▶ Do not step on the glass stand or subject it to any impact.It may break, causing possible injury from fragments of glass, or the TV may fall.
- ▶ Do not drag the TV. The floor or the product may be damaged.

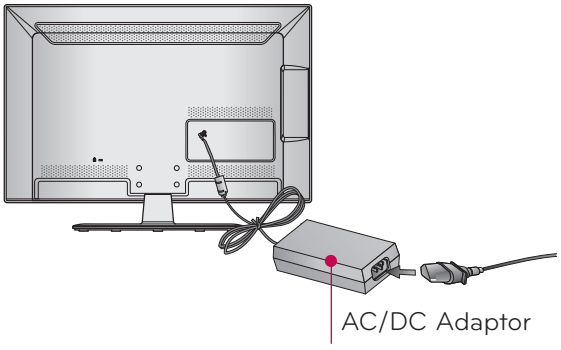
BACK PANEL INFORMATION

■ Image shown may differ from your TV.

19/22/26LE5300, 22/26LE5500



Power Connection

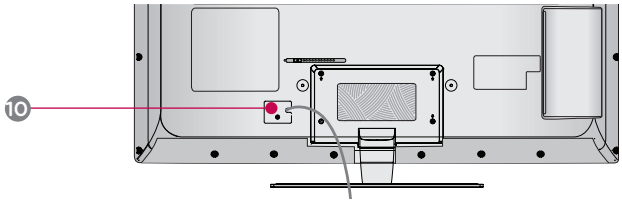


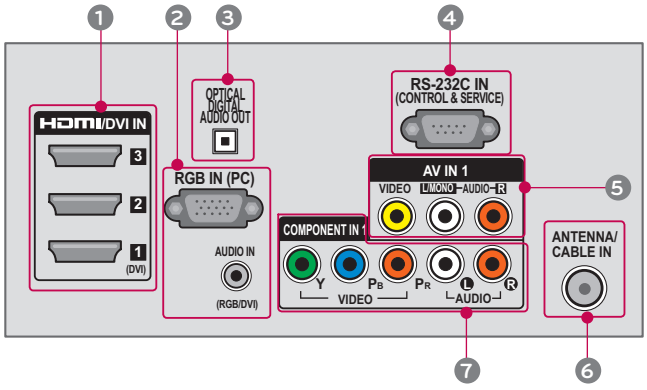
1. Connect the AC/DC adapter plug to the power input jack on the TV.
2. Connect the power cord to the AC/DC adapter first, then plug the power cord into the wall power outlet.

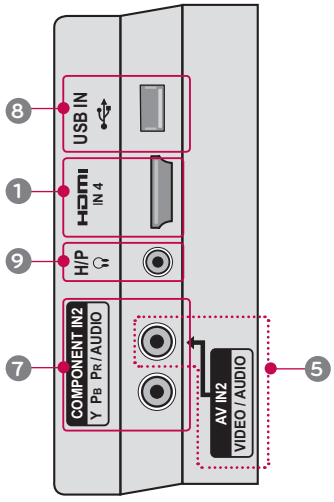
⚠ CAUTION

► Please be sure to connect the TV to the AC/DC power adapter before connecting the TV's power plug to a wall power outlet.

32/37/42/47/55LE5300



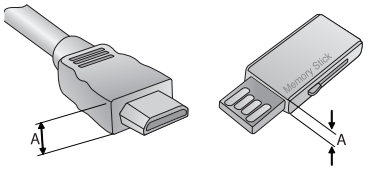




⚠ CAUTION

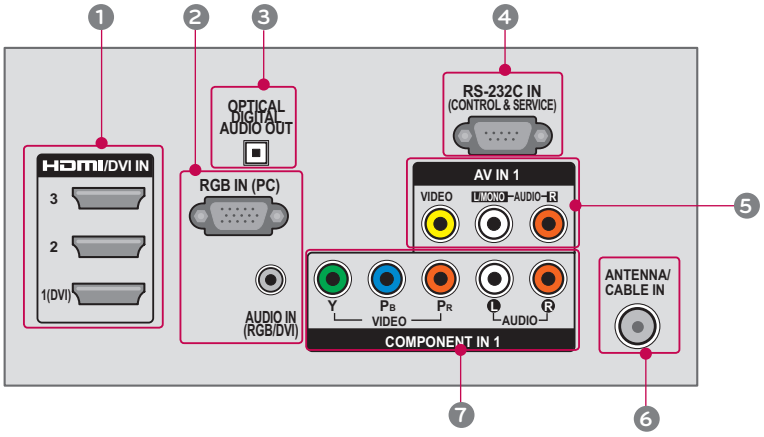
For HDMI IN 4 and USB IN

- For an optimal connection, HDMI cables and USB devices should have bezels less than 10 mm (0.39 inches) thick.

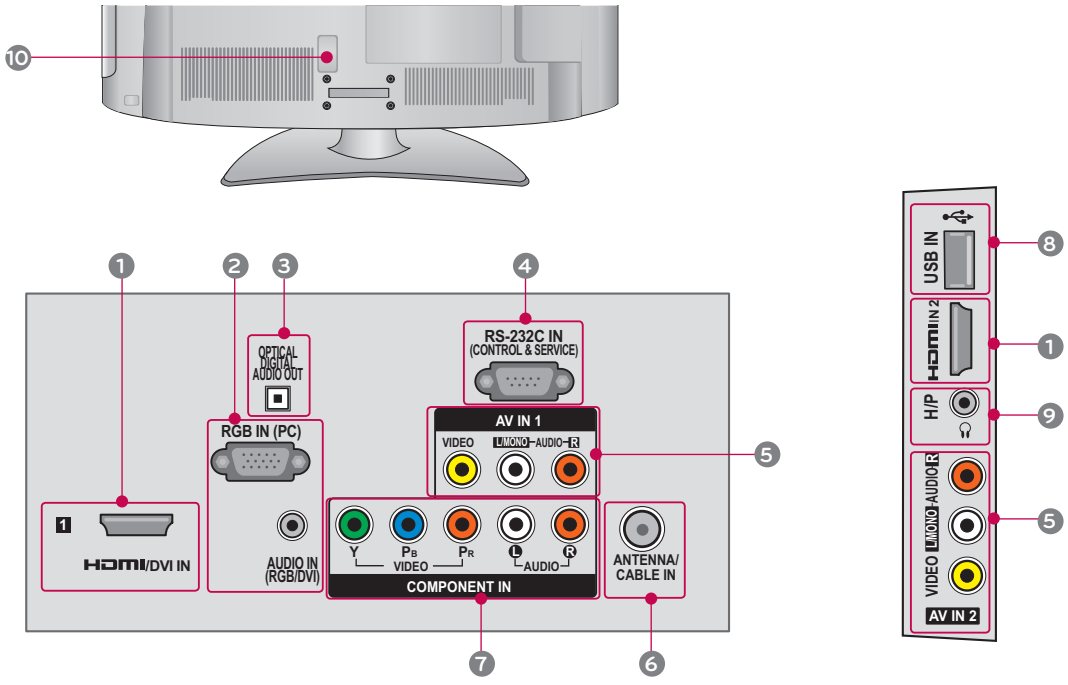


*A ≦ 10 mm (0.39 inches)

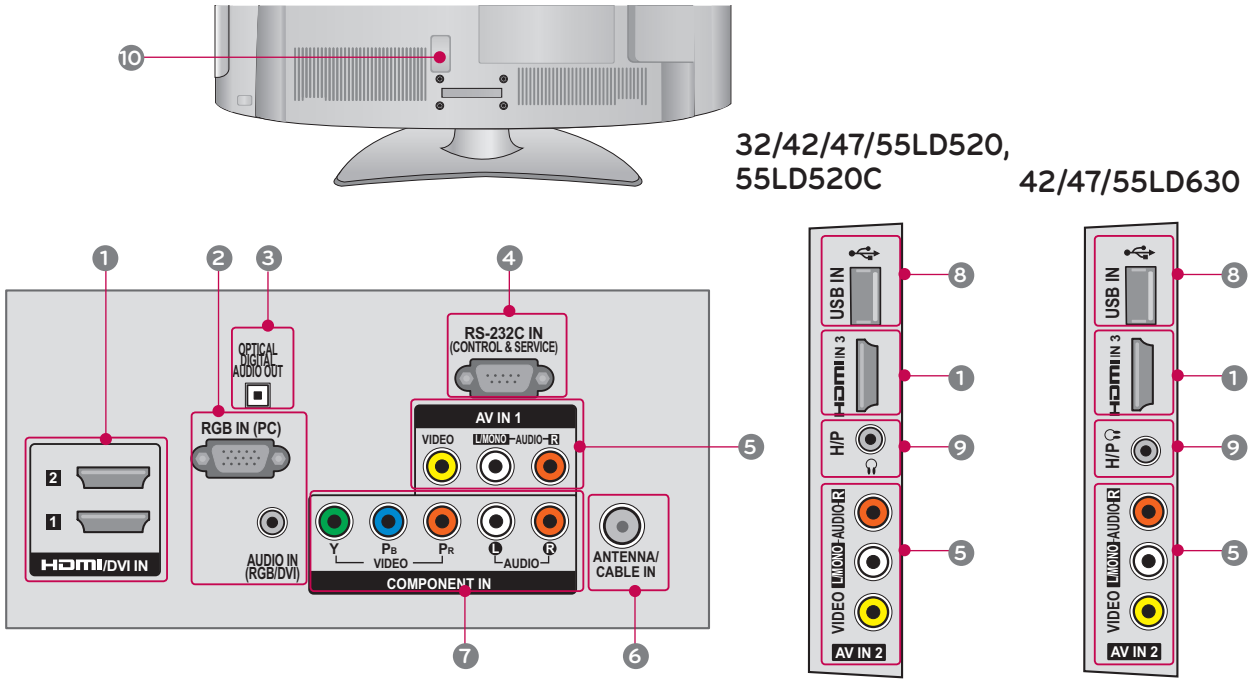
42/47/55LE7300



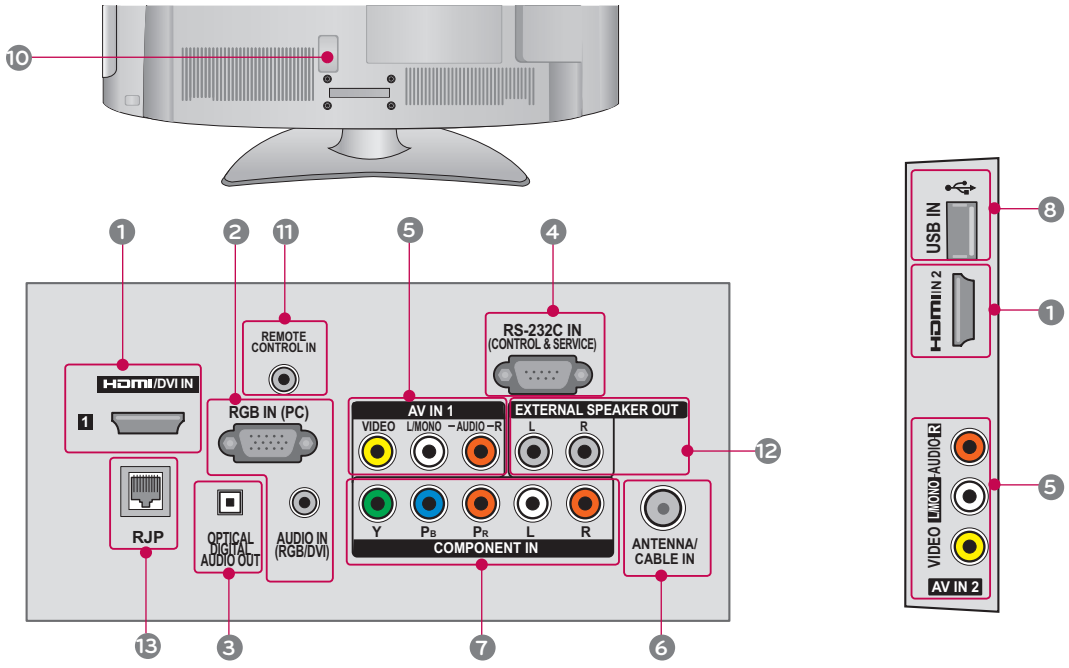
32/42/47LD420, 32/37/42/47LD450



32/42/47/55LD520, 55LD520C, 42/47/55LD630



37/42/47LD450C



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 OPTICAL DIGITAL AUDIO OUT

Digital optical audio output for use with amps and home theater systems.

Note: In standby mode, this port doesn't work.

4 RS-232C IN (CONTROL & SERVICE)

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 ANTENNA/CABLE IN

Connect over-the-air or cable signals to this jack.

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 HEADPHONE

0.32 cm (1/8 inch) headphone jack

Impedance 16 Ω , Maximum audio out 15 mW

10 Power Cord Socket

For operation with AC power.

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

11 REMOTE CONTROL IN

For a wired remote control.

12 EXTERNARL SPEAKER OUT

For use with external speakers.

13 RJP

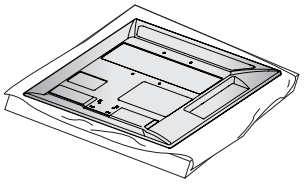
Connect this to an LG remote jack pack system.

STAND INSTRUCTIONS (For 19/22LE5300, 22LE5500)

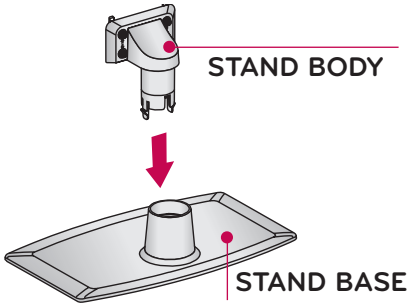
■ Image shown may differ from your TV.

INSTALLATION

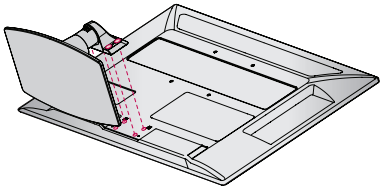
1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



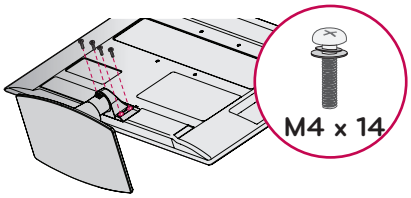
2 Assemble the parts of the **STAND BODY** with the **STAND BASE** of the TV.



3 Assemble the TV as shown.



4 Install the 4 screws into the holes shown.

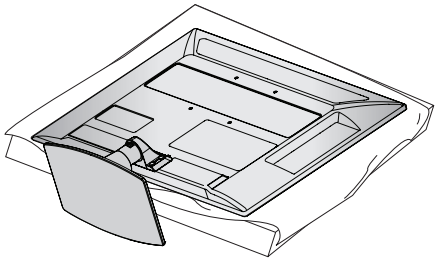


NOTE

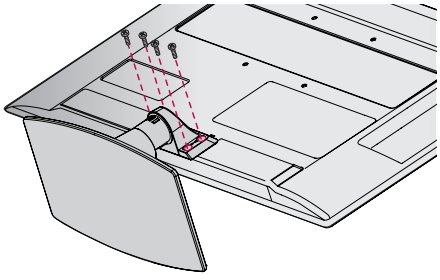
► When assembling the desk type stand, make sure the screws are fully tightened (If not tightened fully, the TV can tilt forward after the product installation). Do not over tighten.

DETACHMENT

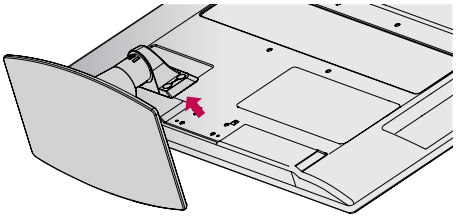
1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



2 Remove the screws from the TV.



3 Detach the stand from TV.

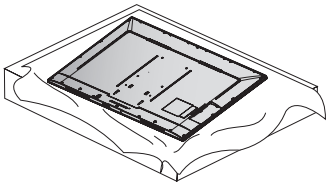


STAND INSTRUCTIONS (For 42/47/55LE7300)

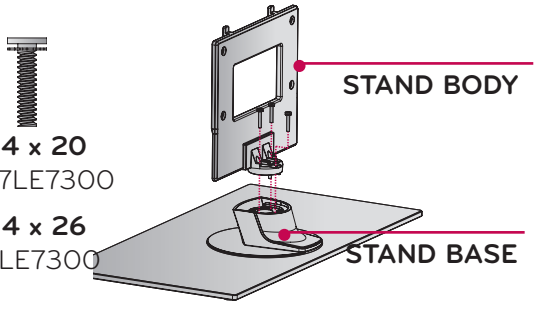
■ Image shown may differ from your TV.

INSTALLATION

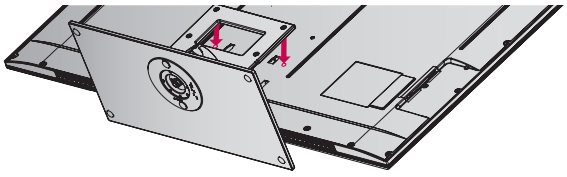
1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



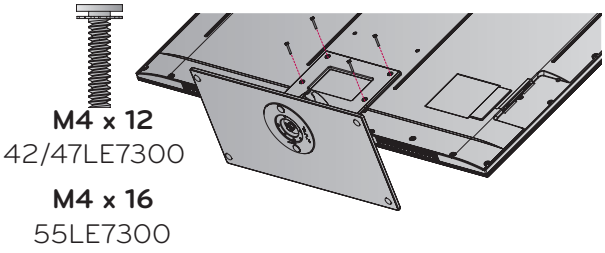
2 Assemble the parts of the **STAND BODY** with the **STAND BASE** of the TV.



3 Assemble the TV as shown.



4 Install the 4 screws into the holes shown.

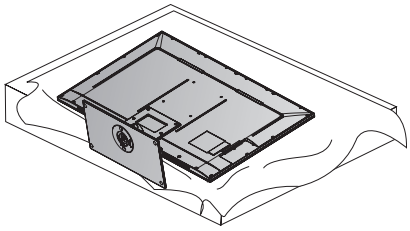


NOTE

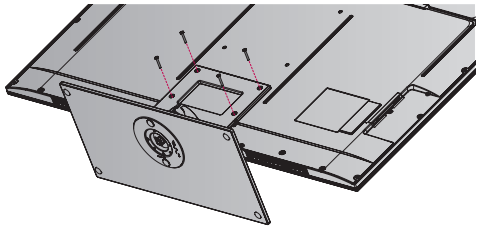
► When assembling the desk type stand, make sure the screws are fully tightened (If not tightened fully, the TV can tilt forward after the product installation). Do not over tighten.

DETACHMENT

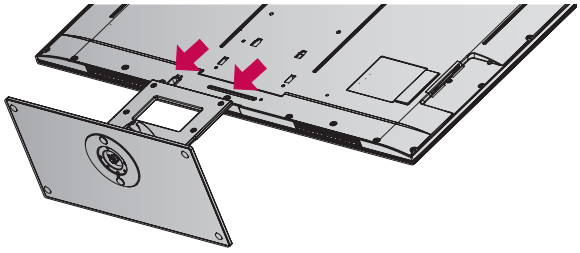
1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



2 Remove the screws from the TV.



3 Detach the stand from TV.

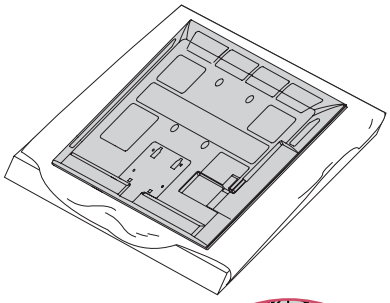


STAND INSTRUCTIONS (For 26/32/37/42/47/55LE5300, 26LE5500)

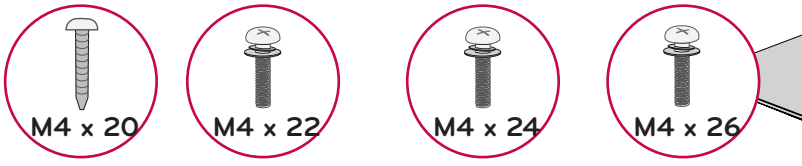
■ Image shown may differ from your TV.

INSTALLATION

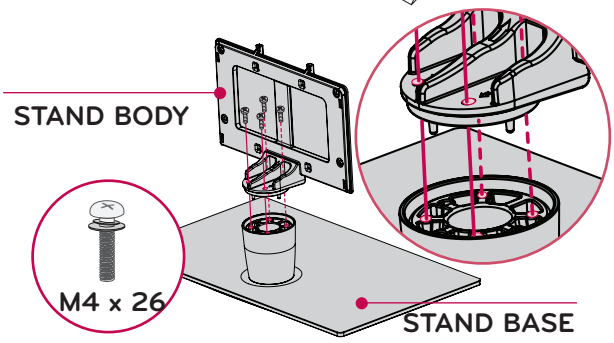
1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



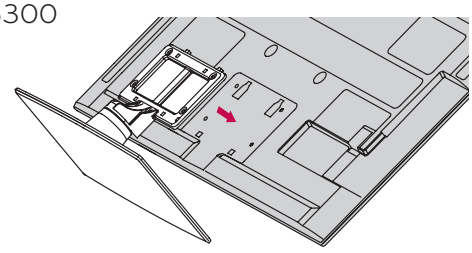
2 Assemble the parts of the **STAND BODY** with the **STAND BASE** of the TV.



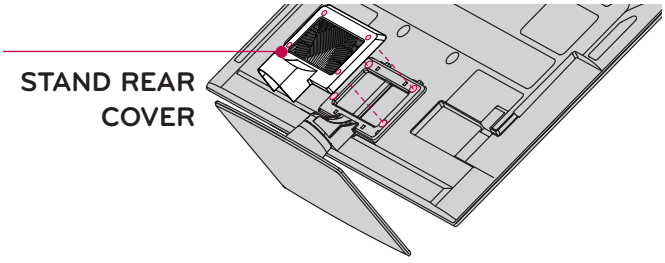
26LE5300, 26LE5500 | 32LE5300 | 37/42LE5300 | 47/55LE5300



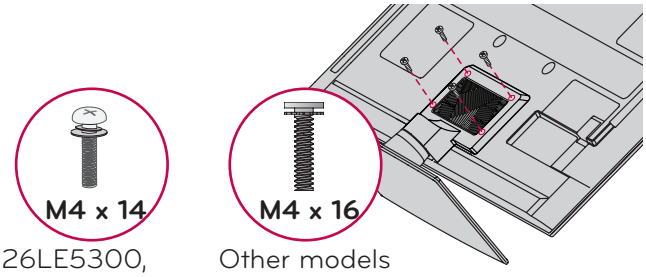
3 Assemble the TV as shown.



4 Assemble the part of the **STAND REAR COVER** with the TV.



5 Install the 4 screws into the holes shown.



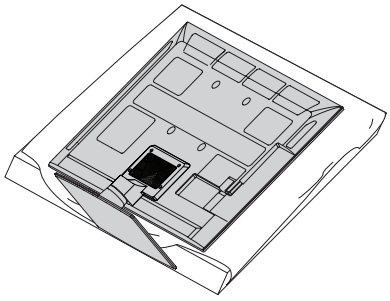
26LE5300, 26LE5500 | Other models

NOTE

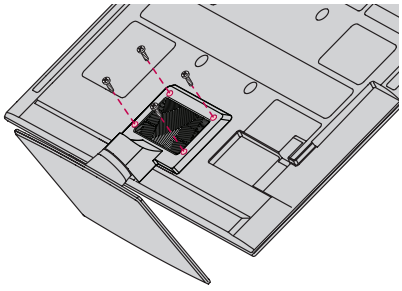
▶ When assembling the desk type stand, make sure the screws are fully tightened (If not tightened fully, the TV can tilt forward after the product installation). Do not over tighten.

DETACHMENT

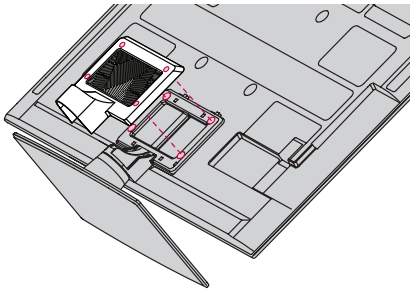
1. Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



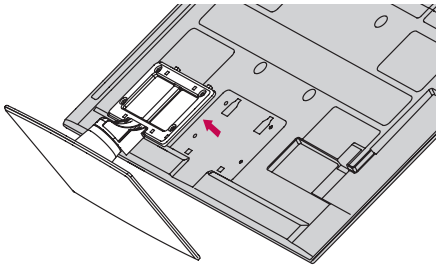
2. Remove the screws from the TV.



3. Detach the **STAND REAR COVER** from TV.



4. Detach the stand from TV.

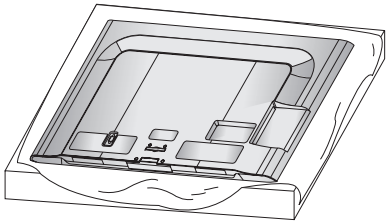


STAND INSTRUCTIONS (For 32/37/42/47LD450, 37/42/47LD450C, 42/47/55LD630)

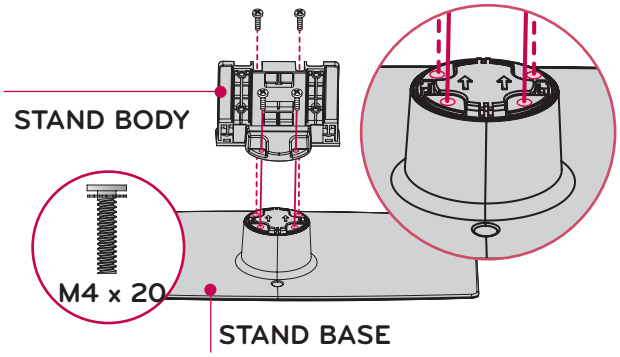
■ Image shown may differ from your TV.

INSTALLATION

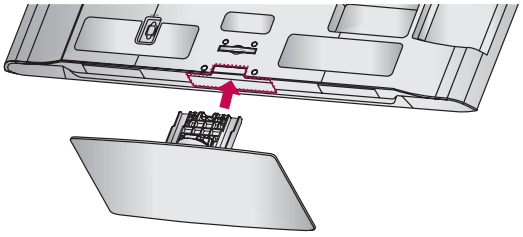
1. Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



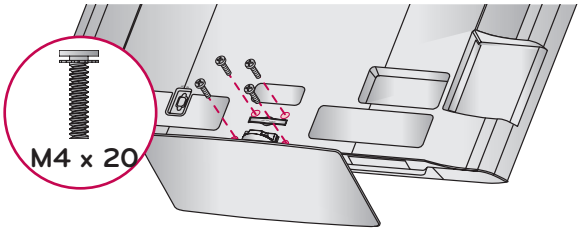
2. Assemble the parts of the **STAND BODY** with the **STAND BASE** of the TV.



3. Assemble the TV as shown.



4. Install the 4 screws into the holes shown.

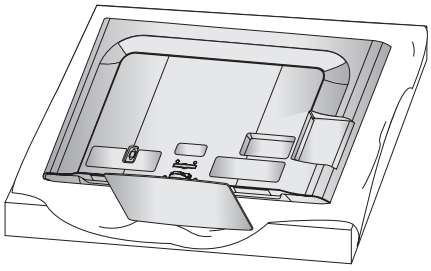


NOTE

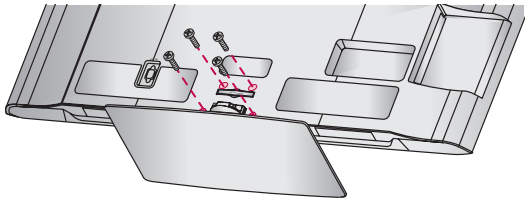
► When assembling the desk type stand, make sure the screws are fully tightened (If not tightened fully, the TV can tilt forward after the product installation). Do not over tighten.

DETACHMENT

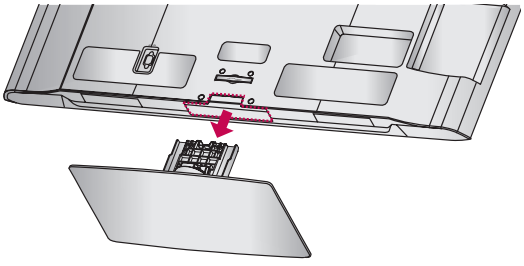
1. Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



2. Remove the screws from the TV.



3. Detach the stand from TV.

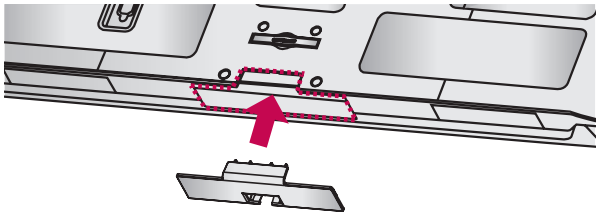


PROTECTION COVER

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**.



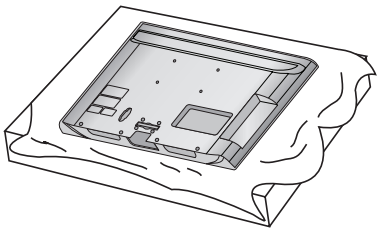
STAND INSTRUCTIONS

(For 32/42/47LD420, 32/42/47/55LD520, 55LD520C)

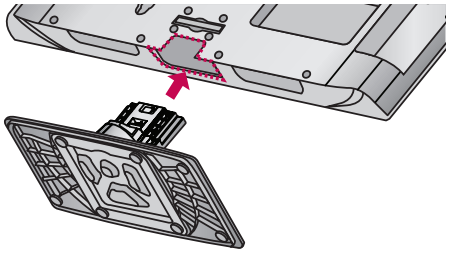
■ Image shown may differ from your TV.

INSTALLATION

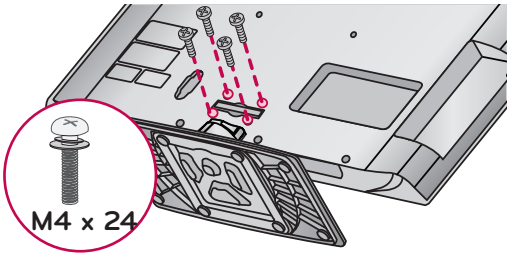
1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



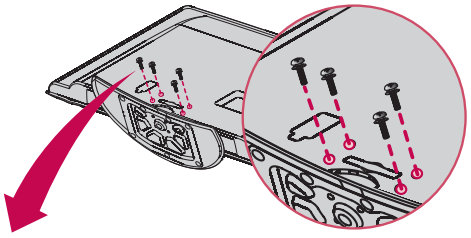
2 Assemble the TV as shown.



3 Install the 4 screws into the holes shown.



For 55LD520C



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).

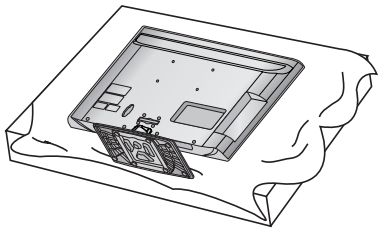
NOTE

▶ 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.

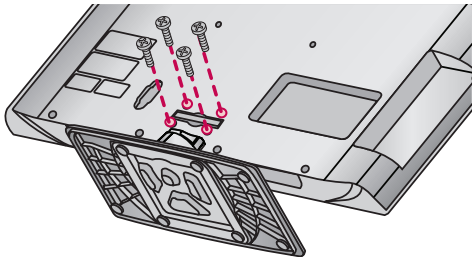
■ Image shown may differ from your TV.

DETACHMENT

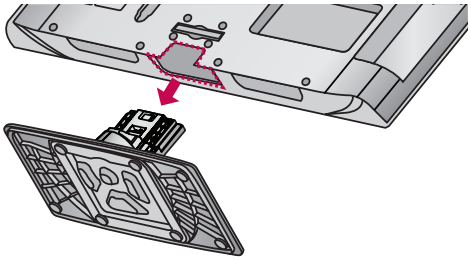
1. Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



2. Remove the screws from the TV.



3. Detach the stand from TV.

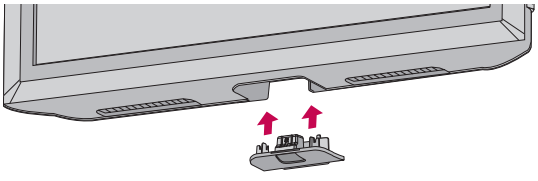


PROTECTION COVER

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**.



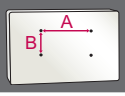
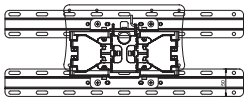
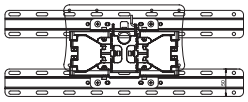
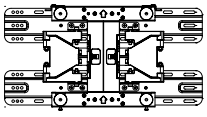
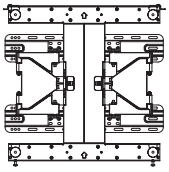
VESA WALL MOUNTING

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)
19LE5300, 22LE5300, 22LE5500, 26LE5300, 26LE5500	100 * 100	M4	4	LSW100B, LSW100BG 
32LE5300, 32LD420, 32LD450, 32LD520	200 * 100	M4	4	LSW100B, LSW100BG 
37LE5300, 42LE5300, 47LE5300, 37LD450, 37LD450C, 42LE7300, 47LE7300, 42LD450, 42LD450C, 47LD450, 47LD450C, 42LD420, 47LD420, 42LD520, 47LD520, 42LD630, 47LD630	200 * 200	M6	4	LSW200B, LSW200BG 
55LE5300, 55LE7300, 55LD520, 55LD520C 55LD630	400 * 400	M6	4	LSW400B, LSW400BG, DSW400BG 

NOTE

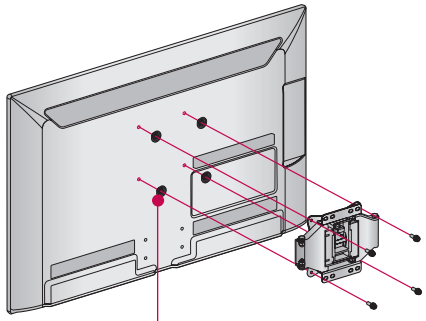
- Screw length needed depends on the wall mount used. For further information, refer to the instructions included with the mount.
- Standard dimensions for wall mount kits are shown in the table.
- When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly 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.

For 26LE5300, 26LE5500



4-RING SPACERS

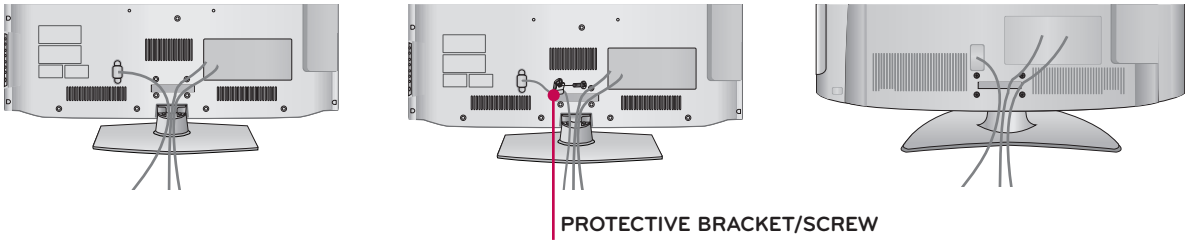
Place the ring spacers on the set before installing the wall mounting bracket so that the inclination of the backside of the set can be adjusted perpendicularly.

CABLE MANAGEMENT

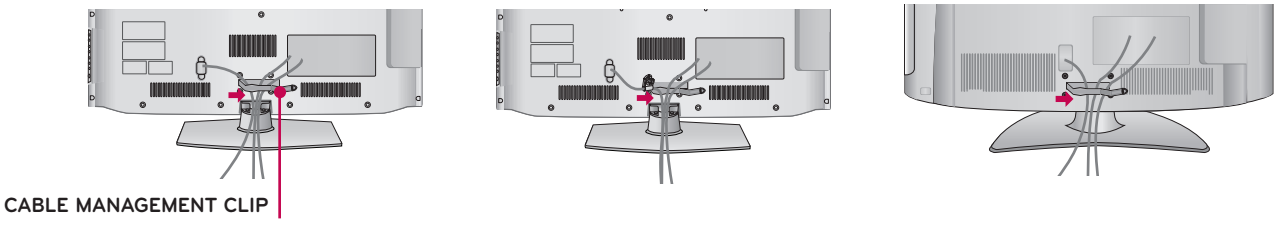
■ Image shown may differ from your TV.

32/37/42/47LD450, 37/42/47LD450C, 32/42/47LD420, 32/42/47/55LD520, 55LD520C, 42/47/55LD630

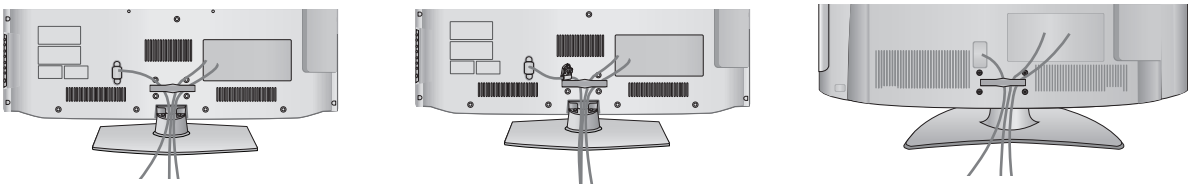
1 Connect the cables as necessary.
To connect additional equipment, see the **EXTERNAL EQUIPMENT SETUP** section.
For 37/42/47LD450C, 55LD520C: Secure the power cord with the **PROTECTIVE BRACKET/SCREW** on the TV back cover. It will help prevent the power cable from being removed by accident.



2 Open the **CABLE MANAGEMENT CLIP** as shown.

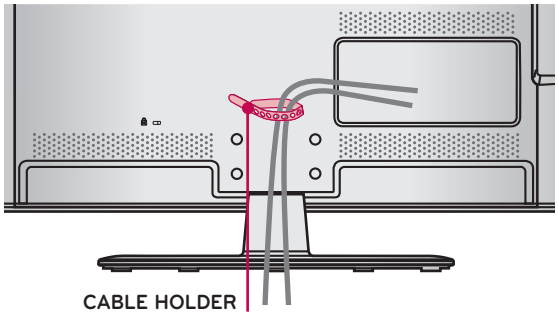


3 Put the cables inside the **CABLE MANAGEMENT CLIP** and snap it closed.



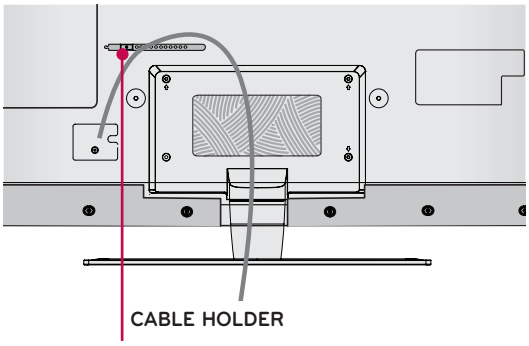
19/22/26LE5300, 22/26LE5500

1. After connecting the cables as necessary, install the **CABLE HOLDER** as shown and bundle the cables.

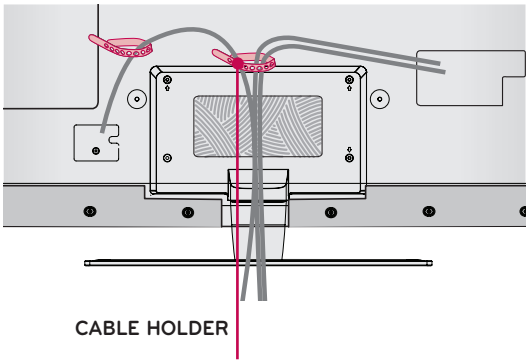


32/37/42/47/55LE5300

1. Secure the power cord with the **CABLE HOLDER** on the TV back cover.
   It will help prevent the power cable from being removed by accident.



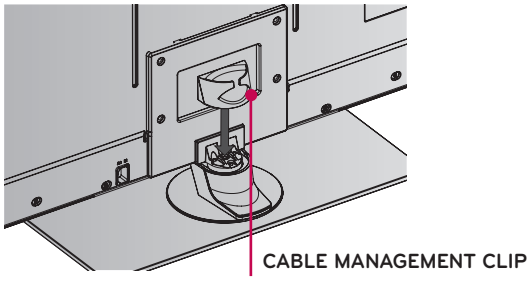
2. After connecting the cables as necessary, install the **CABLE HOLDER** as shown and bundle the cables.



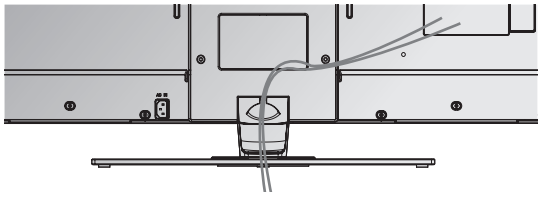
42/47/55LE7300

FOR DESK-TYPE STAND

1. Install the **CABLE MANAGEMENT CLIP** as shown.

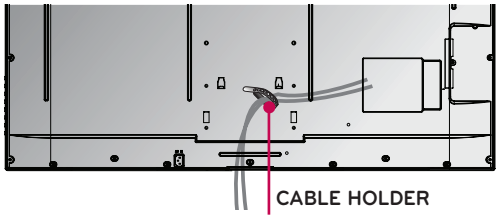


2. Connect the cables as necessary.
   To connect additional equipment, see the **EXTERNAL EQUIPMENT SETUP** section.



FOR WALL MOUNT

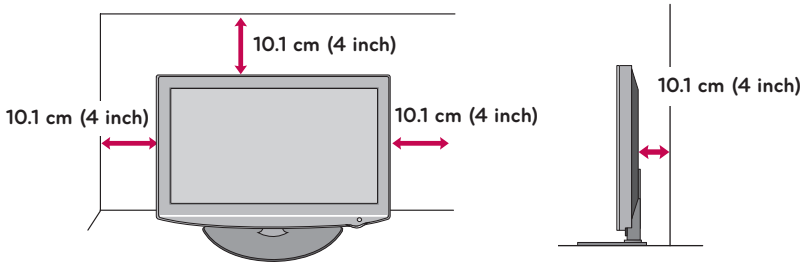
1. Connect the cables as necessary.
   To connect additional equipment, see the **EXTERNAL EQUIPMENT SETUP** section.
   Install CABLE HOLDER as shown and bundle the cables.



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.

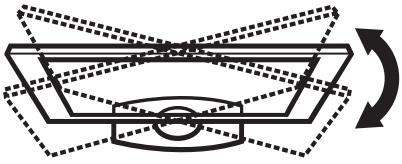


⚠ CAUTION

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

SWIVEL STAND (Except 19/22LE5300, 22LE5500)

After installing the TV, you can adjust the TV set manually to the left or right direction by 20 ° to suit your viewing position.



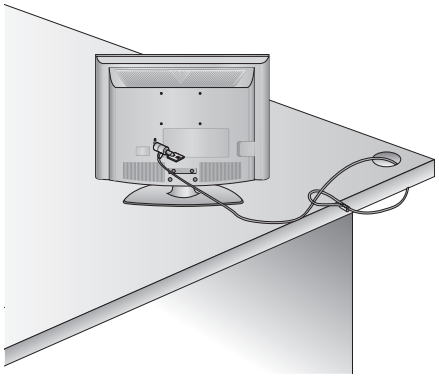
KENSINGTON SECURITY SYSTEM

■ 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.

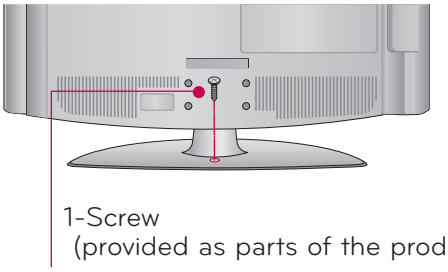


ATTACHING THE TV TO A DESK

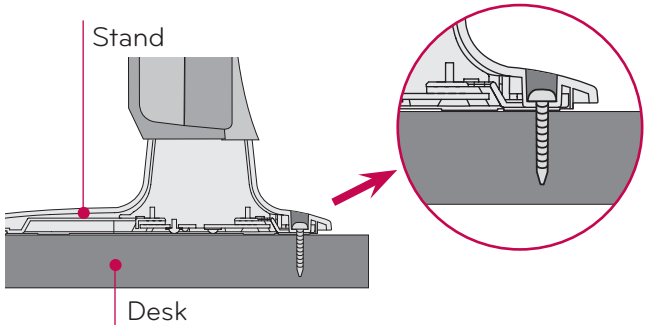
(For 32/42LD420, 32/37/42LD450, 37/42LD450C, 32/42LD520, 42LD630, 32LE5300)

- Image shown may differ from your TV.

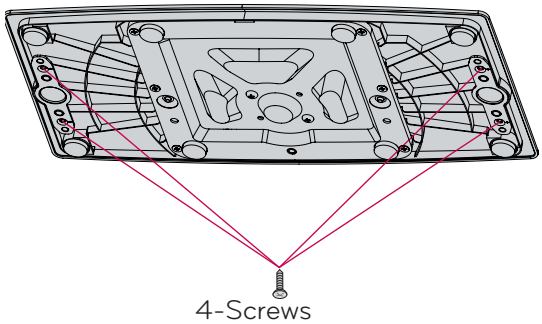
The TV must be attached to a desk so it cannot be pulled in a forward/backward direction, potentially causing injury or damaging the product.



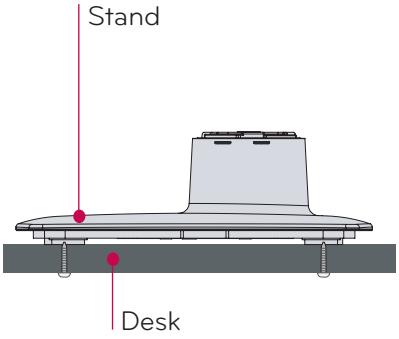
1-Screw
(provided as parts of the product)



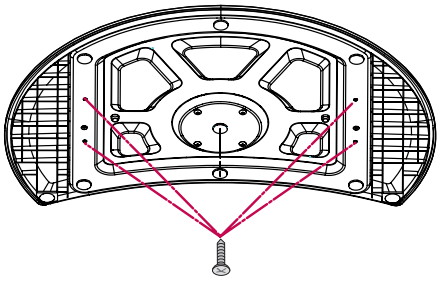
For 37/42/47LD450C



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



For 55LD520C



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

▶ Recommended screw size: M5 x L (*L: Table depth + 8~10 mm)

ex) Table depth: 15mm, Screw: M5 x 25

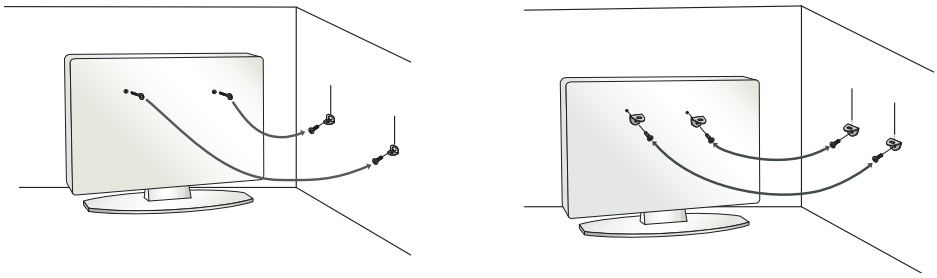
⚠ WARNING

▶ 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.

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

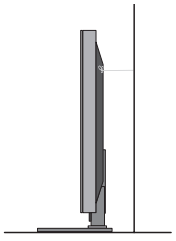
- You should purchase necessary components to prevent the TV from tipping over (when not using a wall mount).
- Image shown may differ from your TV.

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.

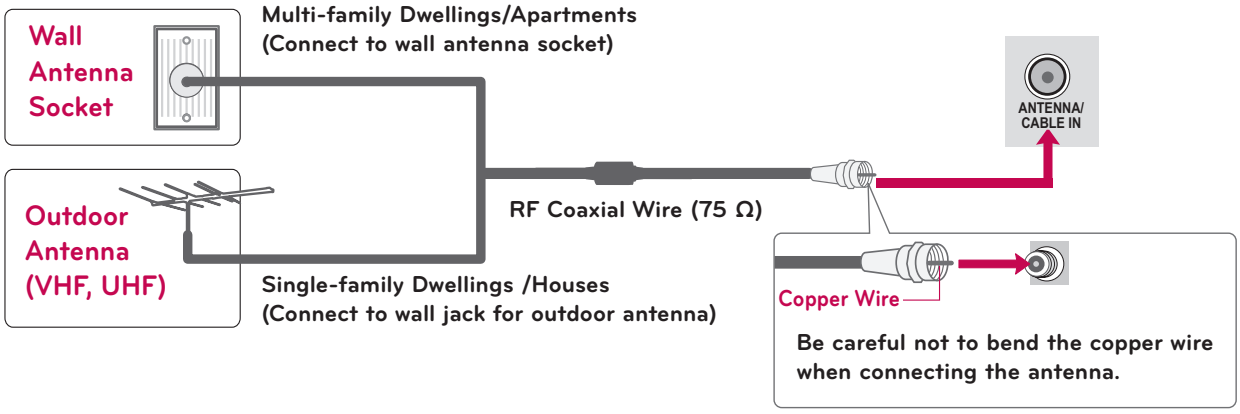
- To prevent damage do not connect to the power outlet until all connections are made between the devices.
- Image shown may differ from your TV.

ANTENNA OR CABLE CONNECTION

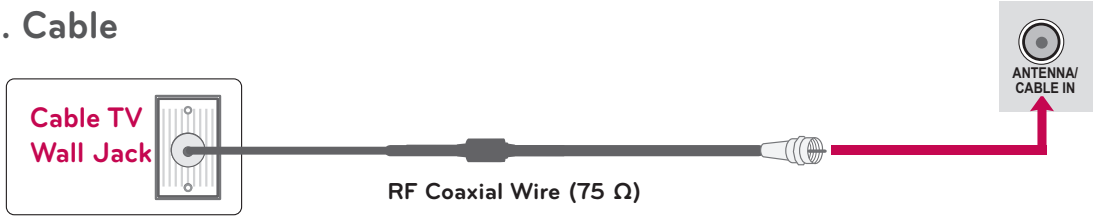
1. Antenna (Analog or Digital)

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.
- IThis part of EXTERNAL EQUIPMENT SETUP mainly use picture of for 26LE5300/26LE5500.

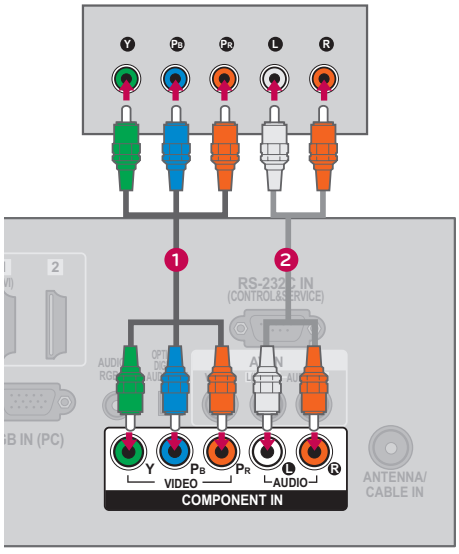
HD RECEIVER SETUP

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

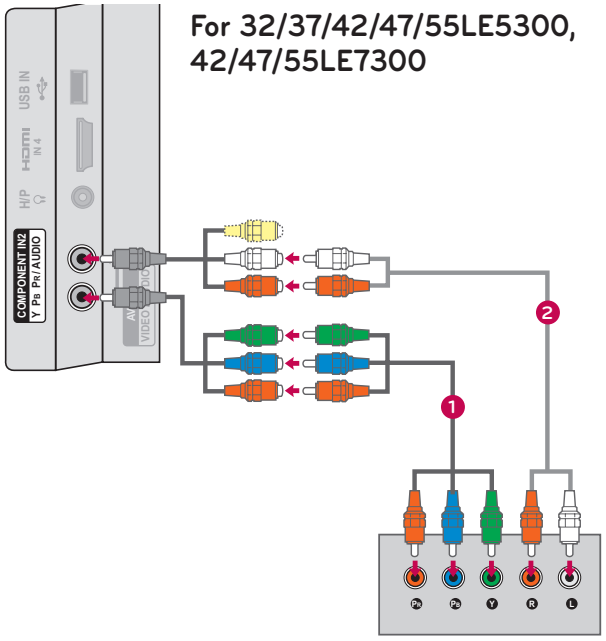
- Turn on the digital set-top box.
  (Refer to the owner's manual for the digital set-top box operation.)
- Select the **Component** or **Component1/2*** input source on the TV using the **INPUT** button on the remote control.

** Component2: For 32/37/42/47/55LE5300, 42/47/55LE7300*

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

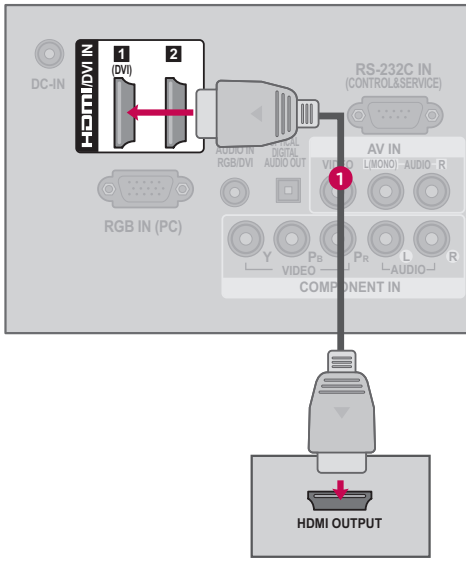
For 32/37/42/47/55LE5300, 42/47/55LE7300



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**, **HDMI2**, **HDMI3***, or **HDMI4**** input source on the TV using the **INPUT** button on the remote control.

** HDMI3: For 26LE5300, 26LE5500, 32/42/47/55LD520, 55LD520C, 42/47/55LD630*

*** HDMI4: For 32/37/42/47/55LE5300, 42/47/55LE7300*

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)

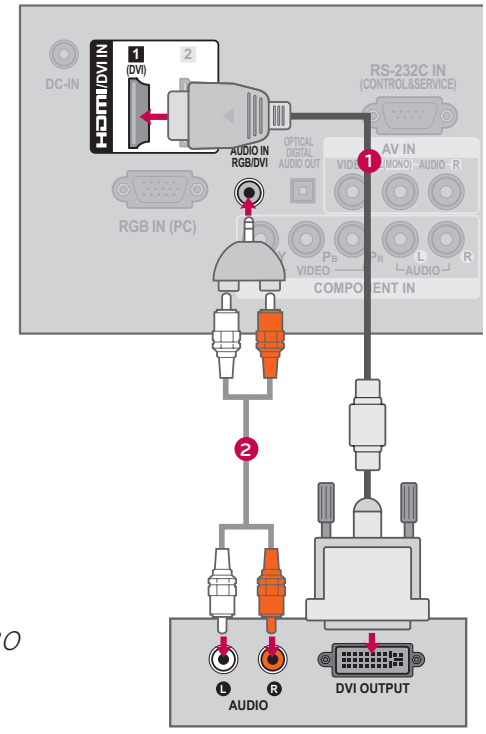
HDMI-DTV

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

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.

** HDMI2: For 32/42/47/55LD520, 55LD520C, 42/47/55LD630*

NOTE

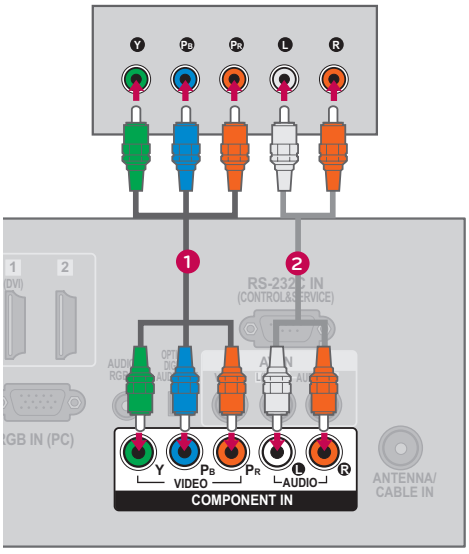
- A DVI to HDMI cable or adapter is required for this connection. DVI doesn't support audio, so a separate audio connection is necessary.

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 **Component1/2*** input source on the TV using the **INPUT** button on the remote control.
- Refer to the DVD player's manual for operating instructions.

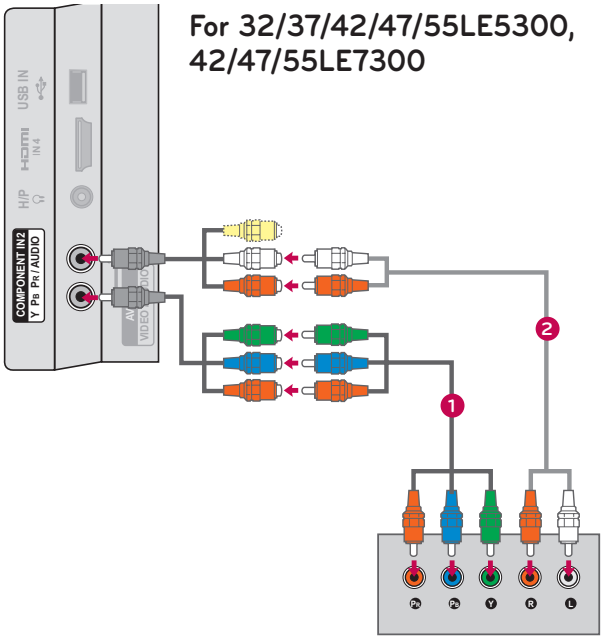
** Component2: For 32/37/42/47/55LE5300, 42/47/55LE7300*

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	PB	PR
Video output ports on DVD player	Y	PB	PR
	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	Pb	Pr

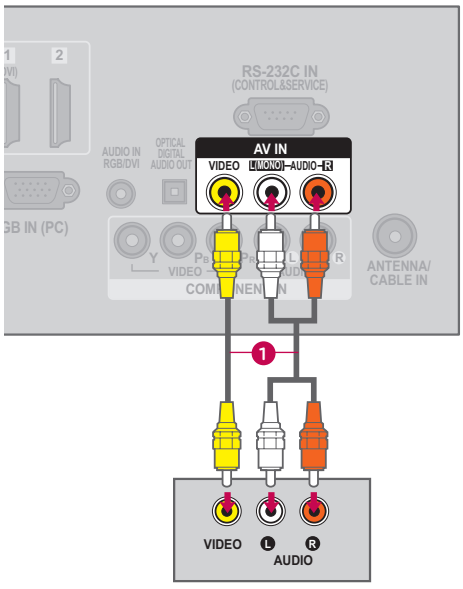
For 32/37/42/47/55LE5300, 42/47/55LE7300



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.

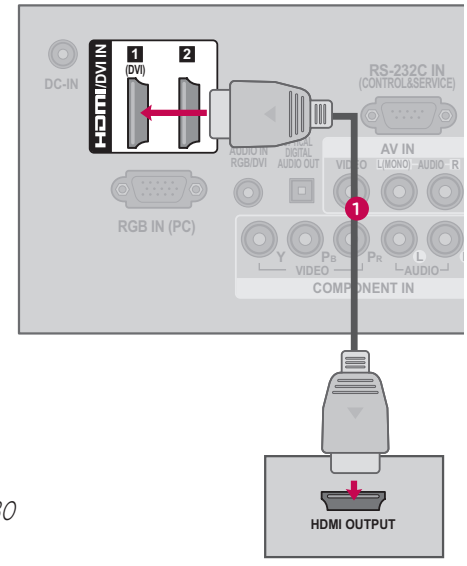
** AV2: Except 19/22/26LE5300, 22/26LE5500*

HDMI Connection

1. How to connect

1. Connect the HDMI output of the DVD to the **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

- Select the **HDMI1**, **HDMI2**, **HDMI3***, or **HDMI4**** input source on the TV using the **INPUT** button on the remote control.
- Refer to the DVD player's manual for operating instructions.

** HDMI3: For 26LE5300, 26LE5500, 32/42/47/55LD520, 55LD520C, 42/47/55LD630*

*** HDMI4: For 32/37/42/47/55LE5300, 42/47/55LE7300*

NOTE

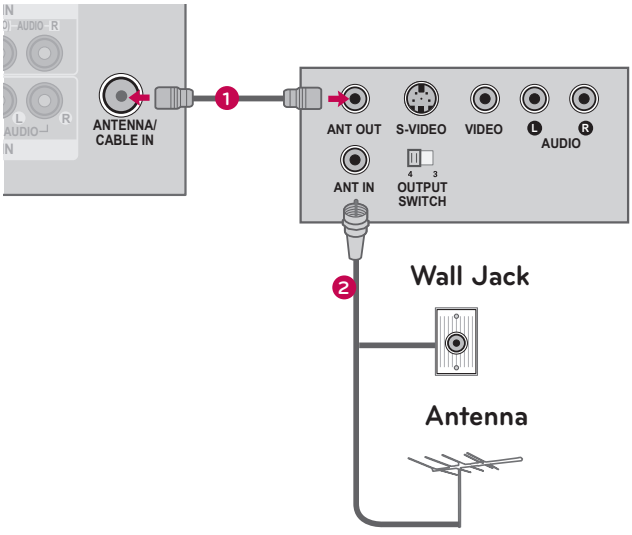
- If an HDMI cable doesn't support High Speed HDMI, it can cause flickers or no screen display. In this case use the latest cables that support High Speed HDMI.
- HDMI Audio Supported Format: Dolby Digital (32 KHz, 44.1 KHz, 48 KHz), Linear PCM (32 KHz, 44.1 KHz, 48 KHz)

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).

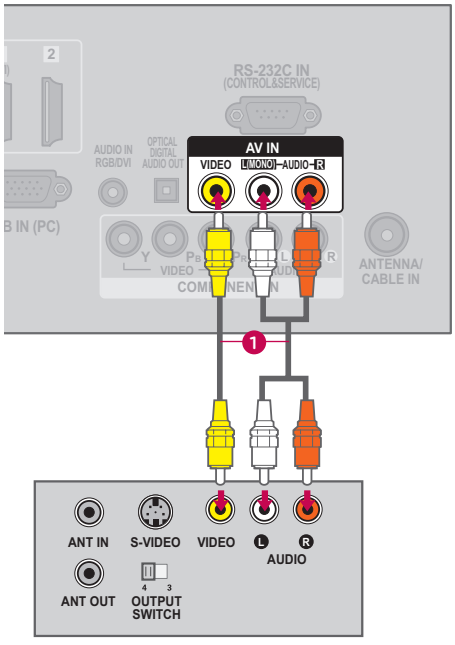
Composite (RCA) Connection

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.



** AV2: Except 19/22/26LE5300, 22/26LE5500*

NOTE

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

OTHER A/V SOURCE SETUP

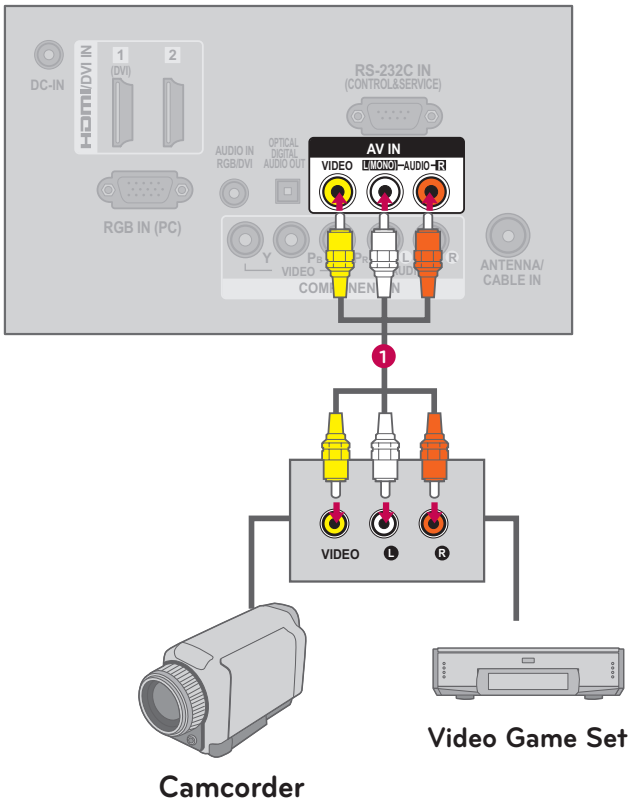
1. How to connect

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.

** AV2: Except 19/22/26LE5300, 22/26LE5500*



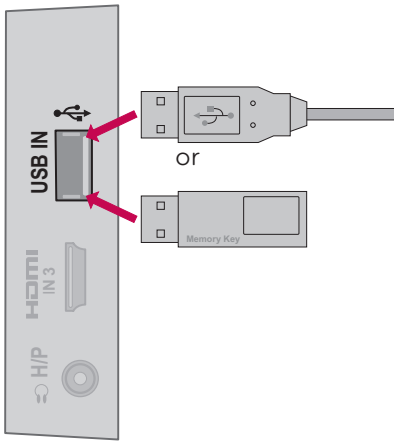
Camcorder

Video Game Set

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

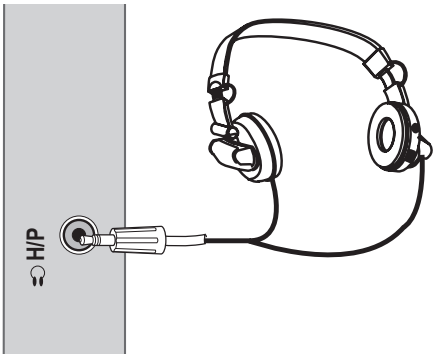
- After connecting the **USB IN** jack, you use the USB function. (▶ p.78)

HEADPHONE SETUP (Except 37/42/47LD450C)

You can listen to the sound through the headphone.

1. How to connect

1. Plug the headphone into the headphone socket.
2. To adjust the headphone volume, press the **VOL +/-** button. If you press the **MUTE** button, the sound from the headphone is switched off.



NOTE

- AUDIO menu options are disabled when connecting a headphone.
- When changing AV MODE with a headphone connected, the change is applied to video but not to audio.
- Optical Digital Audio Out is not available when connecting a headphone.

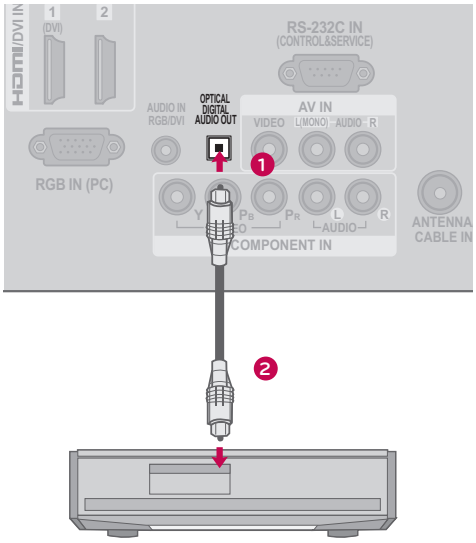
AUDIO OUT CONNECTION

Send the TV's audio to external audio equipment via the Audio Output port.

If you want to enjoy digital broadcasting through 5.1-channel speakers, connect the OPTICAL DIGITAL AUDIO OUT terminal on the back of TV to a Home Theater (or amp).

1. How to connect

1. Connect one end of the optical cable to the TV port of **OPTICAL DIGITAL AUDIO OUT**.
2. Connect the other end of the optical cable to the digital audio input on the audio equipment.
3. Set the "TV Speaker option - Off" in the AUDIO menu. (▶ **p.119**). See the external audio equipment instruction manual for operation.



NOTE

- When connecting with external audio equipment, such as amplifiers or speakers, you can turn the TV speakers off in the menu. (▶ **p.119**)

CAUTION

- Do not look into the optical output port. Looking at the laser beam may damage your vision.
- Audio with ACP (Audio Copy Protection) function may block digital audio output.

PC SETUP

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

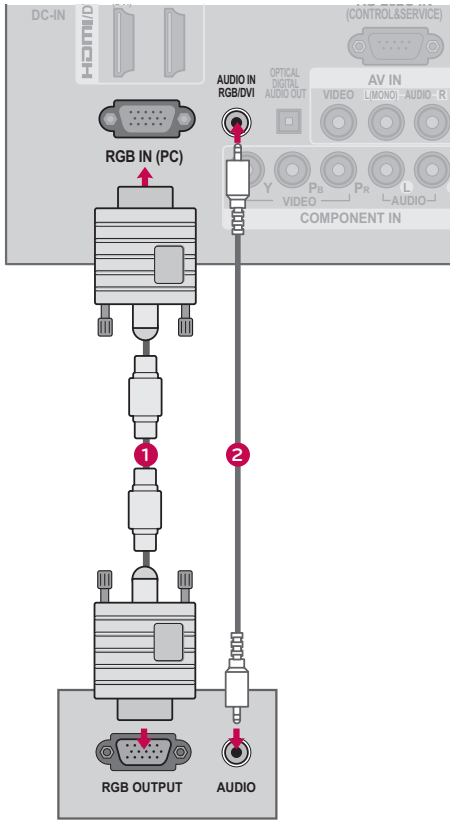
VGA (D-Sub 15 Pin) Connection

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

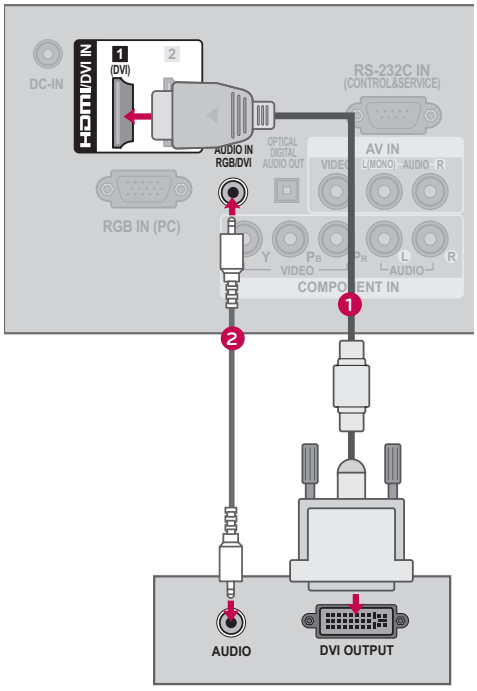
- Turn on the PC and the TV.
- Select the **RGB-PC** input source on the TV using the **INPUT** button on the remote control.



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.

** HDMI2: For 32/42/47/55LD520, 55LD520C, 42/47/55LD630*

NOTE

- To get the the best picture quality, adjust the PC graphics card to **1360 x 768** (19/22/26LE5300, 22/26LE5500) or **1920 x 1080** (Other models).
- 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.

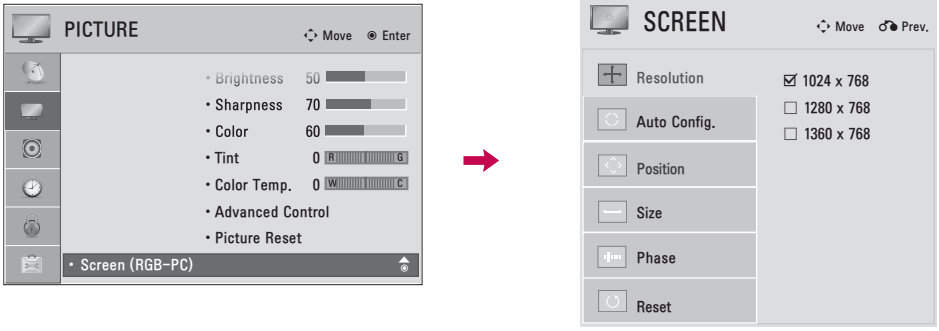
Supported Display Specifications (RGB-PC, HDMI-PC)

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	Except 19/22/26LE5300, 22/26LE5500
1600x1200	75.00	60.00	Except 32/37/42/47/55LE5300, 42/47/55LE7300
1920x1080 RGB-PC	66.587	59.934	
1920x1080 HDMI-PC	67.50	60.00	

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.



1 MENU — Select **PICTURE**.

2 ENTER — Select **Screen (RGB-PC)**.

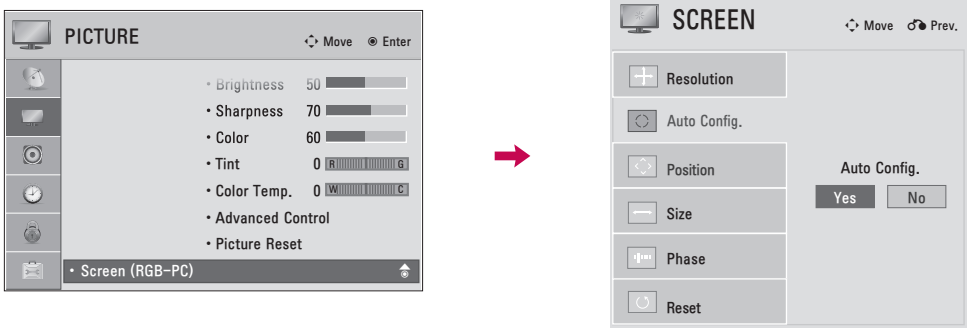
3 ENTER — Select **Resolution**.

4 ENTER — Select the desired resolution.

5 ENTER

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 MENU Select **PICTURE**.

2 ENTER Select **Screen (RGB-PC)**.

3 ENTER Select **Auto Config.**.

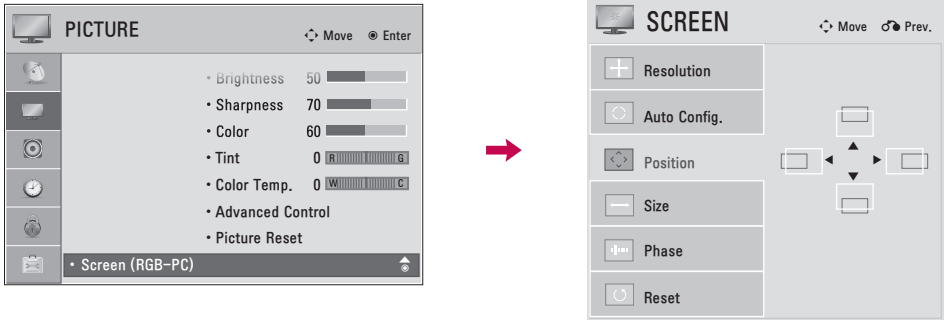
4 ENTER Select **Yes**.

5 ENTER 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**.

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 MENU Select **PICTURE**.

2 ENTER Select **Screen (RGB-PC)**.

3 ENTER Select **Position**, **Size**, or **Phase**.

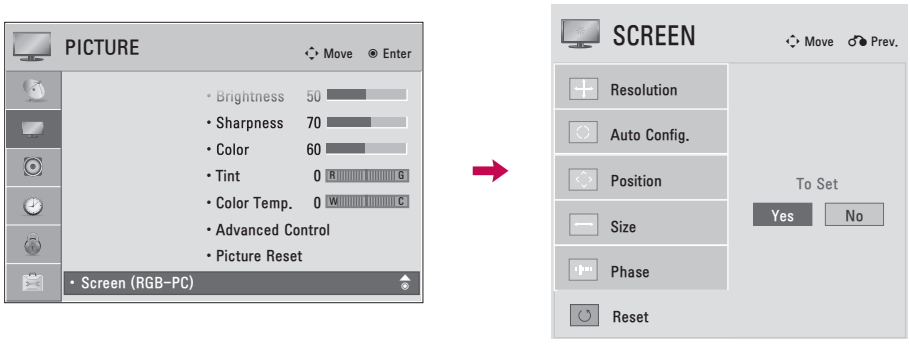
4 ENTER Make appropriate adjustments.

5 ENTER

- **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 MENU Select **PICTURE**.

2 ENTER Select **Screen (RGB-PC)**.

3 ENTER Select **Reset**.

4 ENTER Select **Yes**.

5 ENTER 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.

ENERGY SAVING Adjusts the Energy Saving setting. ▶p.104

AV MODE Toggles through preset Video and Audio modes. ▶p.75

INPUT Rotates through inputs.
Also switches the TV on from standby. ▶p.70

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.

LIST Displays the channel table. ▶p.67

FLASHBK Tunes to the last channel viewed.

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

INFO Displays channel information at the bottom of the screen.

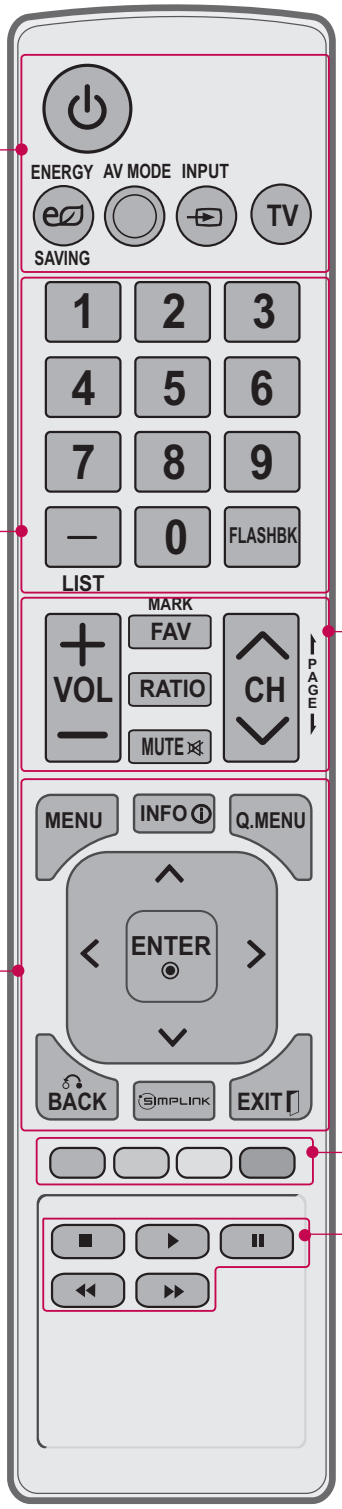
Q.MENU Opens the list of Quick Menu options. ▶p.59

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.

SIMPLINK See a list of AV devices connected to TV.
When you toggle this button, the SIMPLINK menu appears at the screen. ▶p.76

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

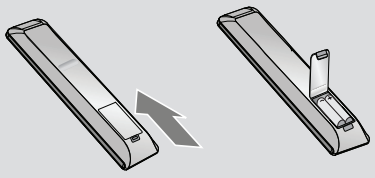


VOLUME UP/DOWN	Adjusts the volume.
FAV	Scroll through the programmed Favorite channels. ▶**p.66**
MARK	Select the input to apply the Picture Wizard settings. ▶**p.103** Use to mark or unmark a photo/music/movie. ▶**p.83, 88, 94**
RATIO	Changes the aspect ratio. ▶**p.100**
MUTE	Switches the sound on or off. ▶**p.54**
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.

USB, SIMPLINK Control buttons	• Controls MY MEDIA menu (Movie List, Photo List, Music List) • Controls the SIMPLINK compatible devices.

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.

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.

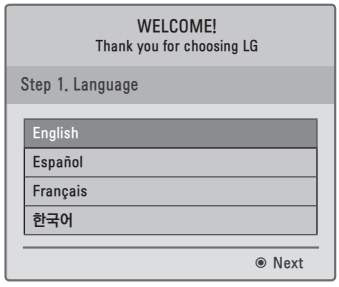
1. Press the **VOL (+ or -)** button to adjust the volume.
2. If you want to switch the sound off, press the **MUTE** button.
3. You can cancel the Mute function by pressing the **MUTE** or **VOL (+ or -)** button.

INITIAL SETTING

This Function guides the user to easily set the essential items for viewing the TV for the first time when purchasing the TV. It will be displayed on the screen when turning the TV on for the first time. It can also be activated from the user menus.

- Default selection is "**Home Use**". We recommend setting the TV to "**Home Use**" mode for the best picture in your home environment.
- "**Store Demo**" Mode is only intended for use in retail environments. Customers can adjust the "**Picture** menu - **Picture mode**" manually while inspecting the TV, but the TV will automatically return to preset in-store mode after 5 minutes.
- "**Store Demo**" Mode is an optimal setting for displaying at stores. "Store Demo" mode initializes the TV to set the image quality.

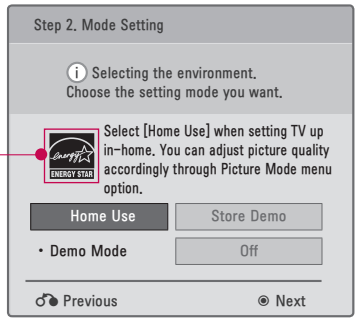
Step 1. Selecting Language



1 Select Menu Language.

2 ENTER

Step 2. Mode setting

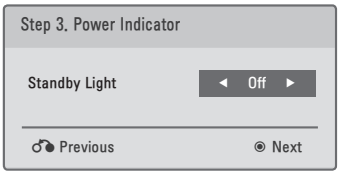


For 19/22/26/37/42/47/55LE5300, 22/26LE5500, 42/47/55LE7300, 37/42/47LD450C, 55LD520C

1 Select **Home Use**.

2 ENTER

Step 3. Power Indicator (For LED LCD TV)

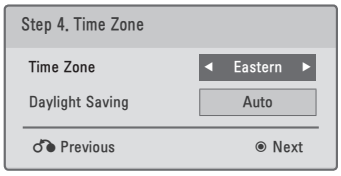


1 Select **On** or **Off**.

2 ENTER

■ This function is disable in "Step2. Mode Setting - Store Demo".

Step 4. Time Zone

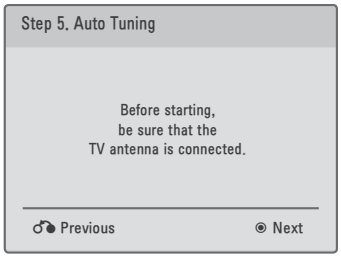


1 Select **Time Zone** option.

2 Select **Daylight Saving** option.

3 ENTER

Step 5. Auto Tuning



1 ENTER Check your antenna connection and start **Auto Tuning**.

ON-SCREEN MENUS SELECTION

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

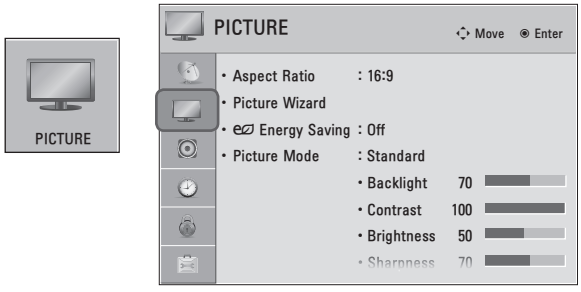
1 MENU Display each menu.

2 ENTER Select a menu item.

3 ENTER Accept the current selection.

4 EXIT Return to TV viewing.

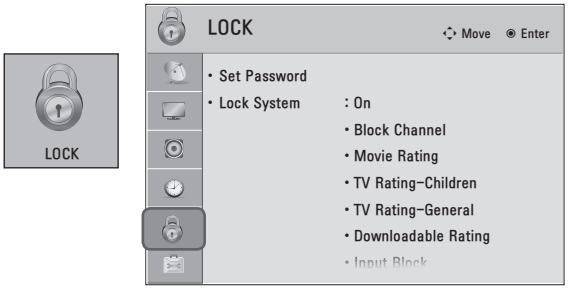


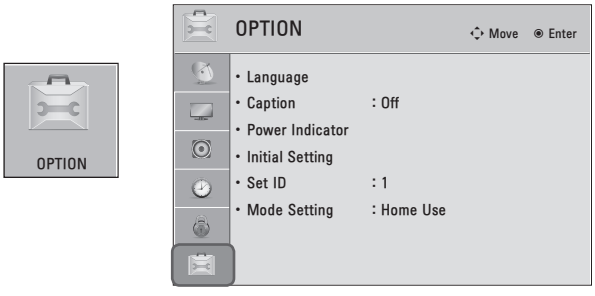




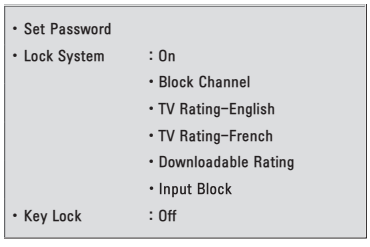


For USA

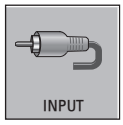


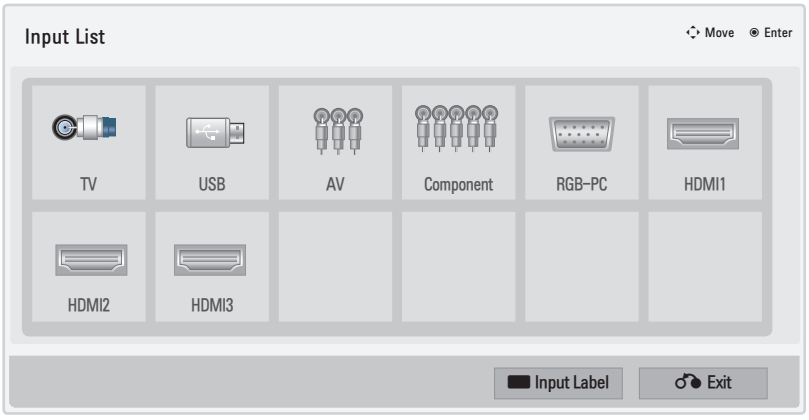


For Canada

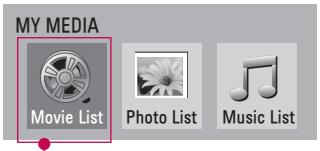


i.e)





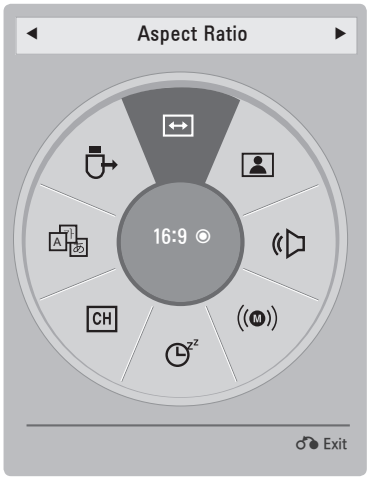




Except 32/42/47LD420,
32/37/42/47LD450,
37/42/47LD450C,
32/42/47/55LD520,
55LD520C

QUICK MENU

Your TV's OSD (On Screen Display) may differ slightly from what is shown in this manual.
Q.Menu (Quick Menu) is a menu of features which users might use frequently.



Aspect Ratio: Selects your desired picture format.
Picture Mode: Selects the desired preset picture setting.
Sound Mode: Selects the desired preset sound setting.
Multi Audio: Changes the audio language (Digital signal).
SAP: Selects MTS sound (Analog signal).
Sleep Timer: Select the amount of time before your TV turns off automatically.
Del/Add: Select channel you want to add or delete.
Caption: Select on or off.
USB Device: Select "Eject" in order to eject a USB device.

1 Q.MENU Display each menu.

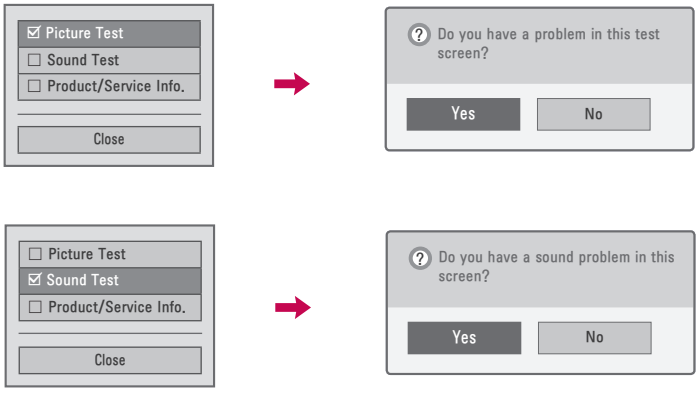
2 ENTER Make appropriate adjustments.

3 EXIT Return to TV viewing.

CUSTOMER SUPPORT

Picture Test / Sound Test

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



1 MENU RED Select **Customer Support**.

2 ENTER Select **Picture Test** or **Sound Test**.

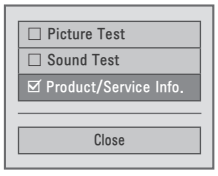
3 ENTER Select **Yes**.

4 BACK Return to the previous menu.

EXIT Return to TV viewing.

Product/Service Info.

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



1 MENU RED Select **Customer Support**.

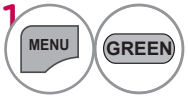
2 ENTER Select **Product/Service Info.**. You can check the various product/Service infomation based on your model.

3 BACK Return to the previous menu.

EXIT Return to TV viewing.

SIMPLE MANUAL

You can easily and effectively access the TV information by viewing a simple manual on the TV. During the Simple Manual operation, audio will be muted.

1 

Select **Simple Manual**.

2 
Select the part of the manual you would like to see.



Go to the **Index** page.



Play the **Simple Manual** automatically or manually.

3 

Return to TV viewing.

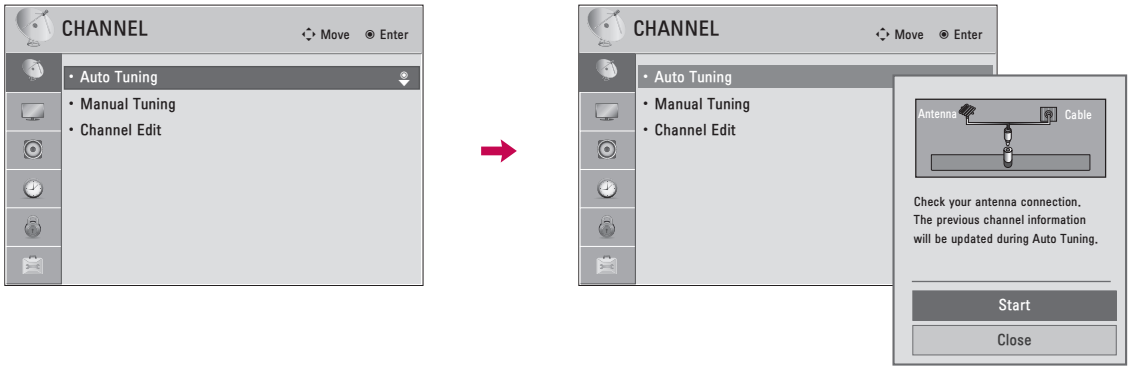
CHANNEL SETUP

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.



1 MENU Select **CHANNEL**.

2 ENTER Select **Auto Tuning**.

3 ENTER Select **Start**.

4 ENTER Run **Auto tuning**.

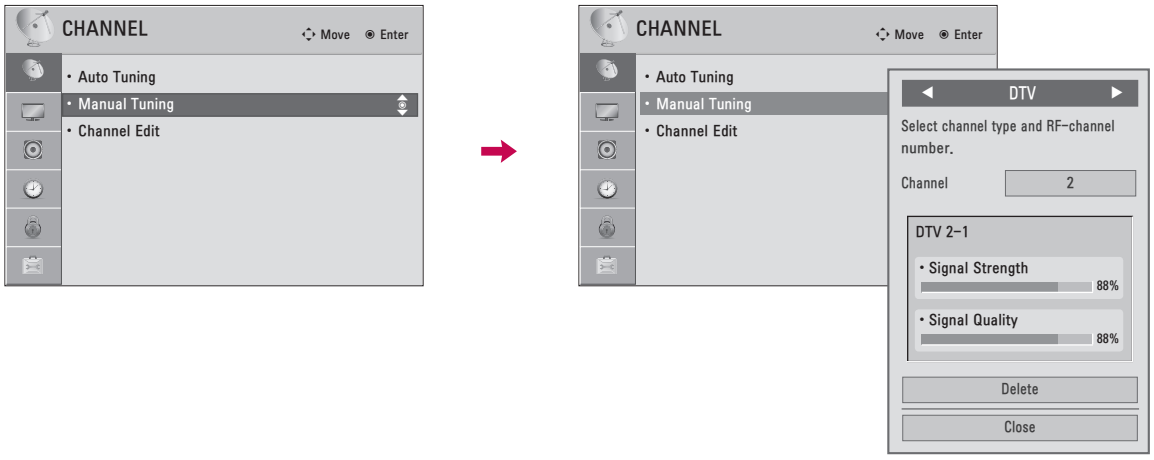
5 BACK Return to the previous menu.

EXIT 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.
- Found channels are grouped in the order of DTV, TV, Cable DTV and Cable TV.

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 MENU — Select **CHANNEL**.

2 ENTER — Select **Manual Tuning**.

3 ENTER — Select **DTV**, **TV**, **Cable DTV**, or **Cable TV**.

4 — Select channel you want to add or delete.

5 ENTER — Select **Add** or **Delete**.

6 BACK — Return to the previous menu.

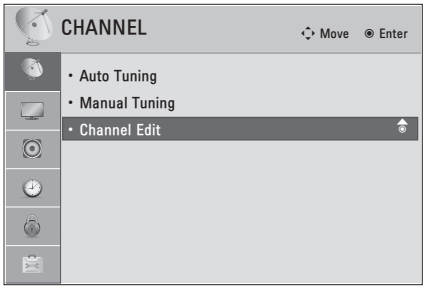
EXIT — Return to TV viewing.

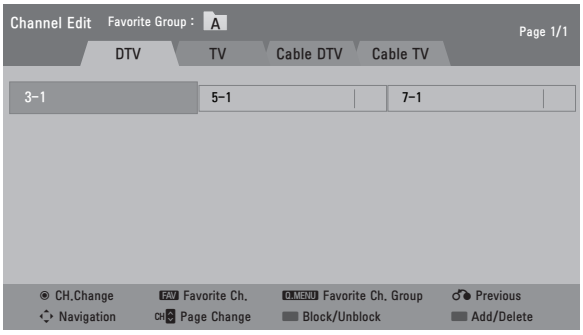
- The TV will ask for a password if parental control has been activated (LOCK Menu). Use the password you set up in the LOCK Menu to allow a channel search.
- The maximum number of channels the TV can store is 1000.

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** ∧ ∨ 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 MENU, ENTER — Select **CHANNEL**.

2 ENTER — Select **Channel Edit**.

3 ENTER — Select a channel.

4 BLUE — Add or delete a channel.

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

ENTER — Switch to the chosen channel number.

CH — Move the pages when the channel list is too long.

5 BACK — Return to the previous menu.

EXIT — Return to TV viewing.

■ Keep pressing the ∧ button and use the ‹ or › buttons to move between DTV, TV, Cable DTV and Cable TV.

FAVORITE CHANNEL SETUP

Favorite Channels are a convenient feature that lets you quickly select channels of your choice without waiting for the TV to select all the in-between channels.



1 CH or NUMBER — Select your desired channel.

2 MARK FAV — Select your desired favorite channel group from A to D.

3 YELLOW — Register or cancel the current channel in favorite channel list.

BLUE — Go to the "**CHANNEL** menu **- Channel Edit**".

4 EXIT — Return to TV viewing.

■ You can also setup **Favorite List** in the **CHANNEL** menu **- Channel Edit**.

FAVORITE CHANNEL LIST



Displaying the favorite channel list

1 MARK FAV — Display the Favorite channel list.

Selecting a channel in the favorite channel list

1 Select a channel.

2 ENTER — Switch to the chosen channel number.

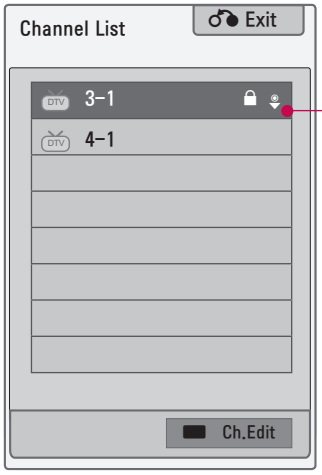
Paging through a favorite channel list

1 CH — Turn the pages.

2 EXIT — Return to TV viewing.

CHANNEL LIST

You can check which channels are stored in the memory by displaying the channel list.



This padlock is displayed when the channel is locked with parental control.

Displaying Channel List

1 LIST — Display the **Channel List**.

BLUE — Tune to the "**CHANNEL** menu **- Channel Edit**".

Selecting a channel in the channel list

1 — Select a channel.

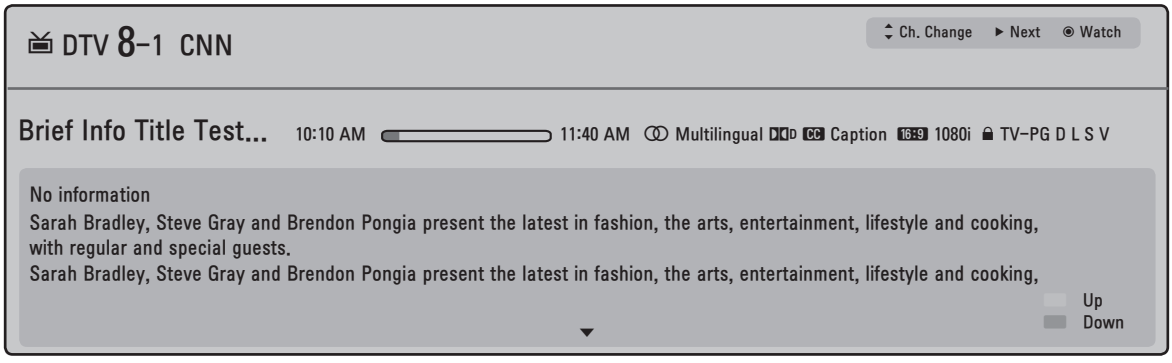
2 ENTER — Switch to the chosen channel number.

Paging through a channel list

1 CH — Turn the pages.

2 EXIT — Return to TV viewing.

CHANNEL INFORMATION



Displaying Channel Information

1 Show the current channel program Information on the screen.

2 Show a previous or next channel's program information

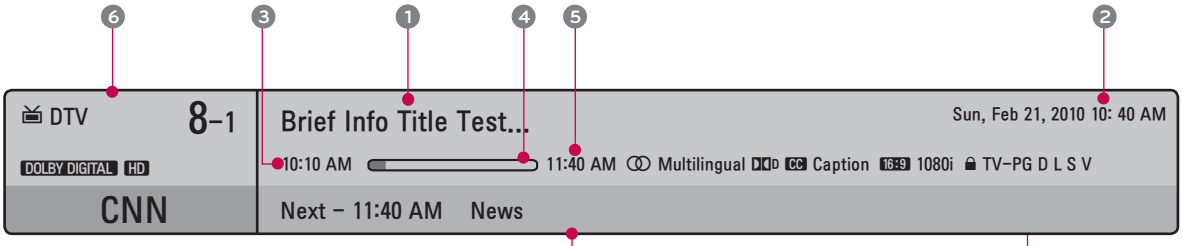
3 Return to TV viewing.

CHANNEL BRIEF INFORMATION

Brief Info shows the present screen information.

1 ENTER Shows the current channel's brief info screen.

2 ENTER Return to TV viewing.



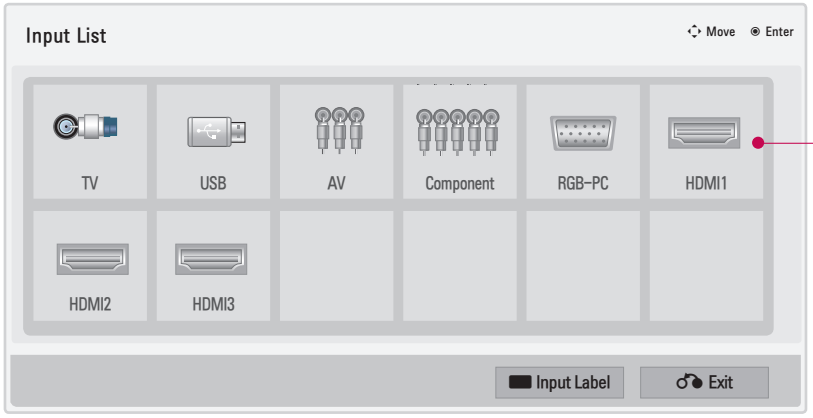
	Multilingual : The program contains two or more audio services. Use the **Q.MENU** menu to select wanted Audio.
CC	**Caption** : The program contains one or more caption services. Use the **Q.MENU** menu to select wanted Closed caption.
DD	**Dolby Digital**: The program contains a Dolby Digital audio signal in TV and HDMI input source.
4:3	The original aspect ratio of the video is 4:3
16:9	The original aspect ratio of the video is 16:9 (wide)
480i	The video resolution is 720x480i
480p	The video resolution is 720x480p
720p	The video resolution is 1280x720p
1080i	The video resolution is 1920x1080i
1080p	The video resolution is 1920x1080p
	V-Chip: The program contains V-Chip information. Refer to the LOCK menu: A (Age), D (Dialogue), L (Language), S (Sex), V (Violence), FV (Fantasy Violence)

1. Program title
2. Day, Month, Year, Present time
3. Program start time
4. Program progress bar
5. Program finish time
6. Banner information

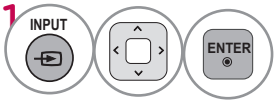
INPUT LIST

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

ie)

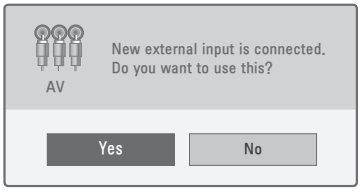


Disconnected inputs are inactive (grayed out)



Select the desired input source.

- When new external device is connected, this popup menu is displayed automatically.
  If selecting **Yes**, you can select input source that you want to appreciate.
- But, when selecting "**SIMPLINK** - **On**", popup menu for HDMI input will not be displayed.

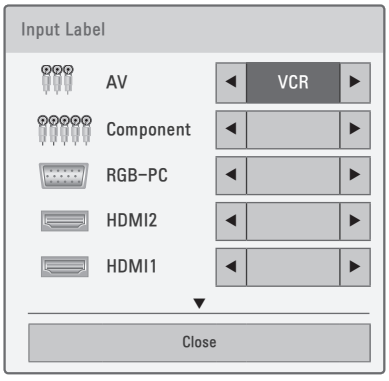


- **TV**: Select it to watch over-the-air, cable and digital cable broadcasts.
- **AV**: Select them to watch a VCR or other external equipment.
- **Component**: Select them to watch DVD or a Digital set-top box.
- **RGB-PC**: Select it to view PC input.
- **HDMI**: Select them to watch high definition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

INPUT LABEL

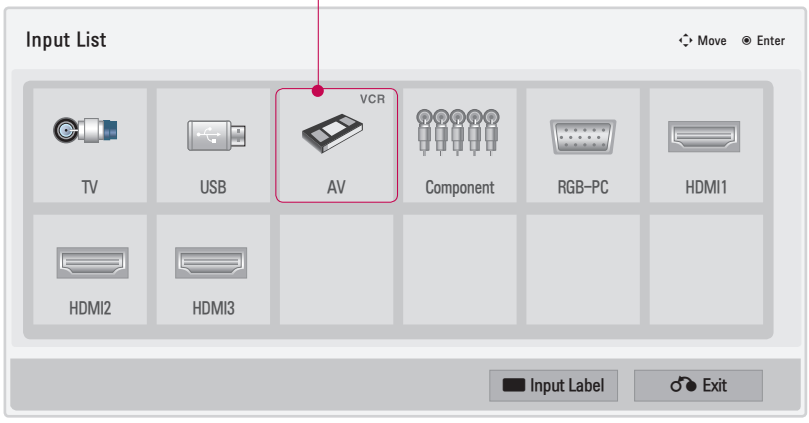
This indicates which device is connected to which input port.

i.e)



i.e)

ie) Change the input label using Blue button



1 INPUT Select the desired input source.

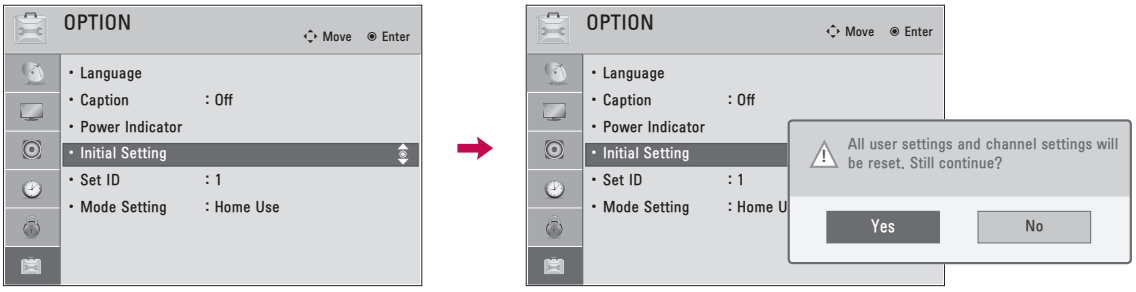
2 BLUE Select the label.

3 BACK Return to the previous menu.

EXIT Return to TV viewing.

RESET TO FACTORY DEFAULT (INITIAL SETTING)

This function resets the TV to factory default and erases all stored channels.



1 MENU Select **OPTION**.

2 ENTER Select **Initial Setting**.

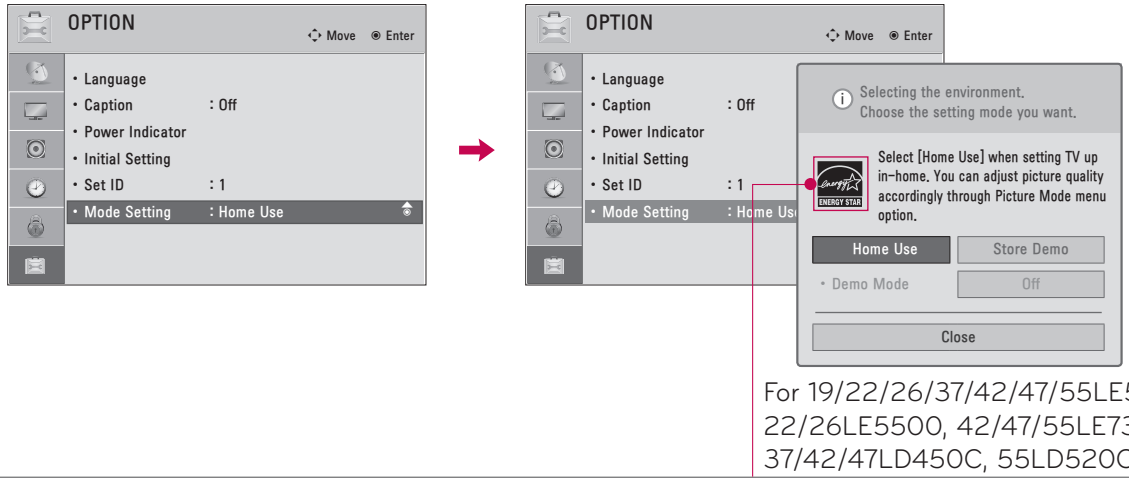
3 ENTER Select **Yes**.

4 ENTER TV turns off automatically and starts factory reset.

- When selecting "**Lock System - On**" in the LOCK menu, the message to enter the password appears.
- If you forget your password, press "0-3-2-5" on the remote control.

MODE SETTING

Default selection is "**Home Use**". We recommend setting the TV to "**Home Use**" mode for the best picture in your home environment.



For 19/22/26/37/42/47/55LE5300, 22/26LE5500, 42/47/55LE7300, 37/42/47LD450C, 55LD520C

1 MENU Select **OPTION**.

2 ENTER Select **Mode Setting**.

3 ENTER Select **Home Use**.

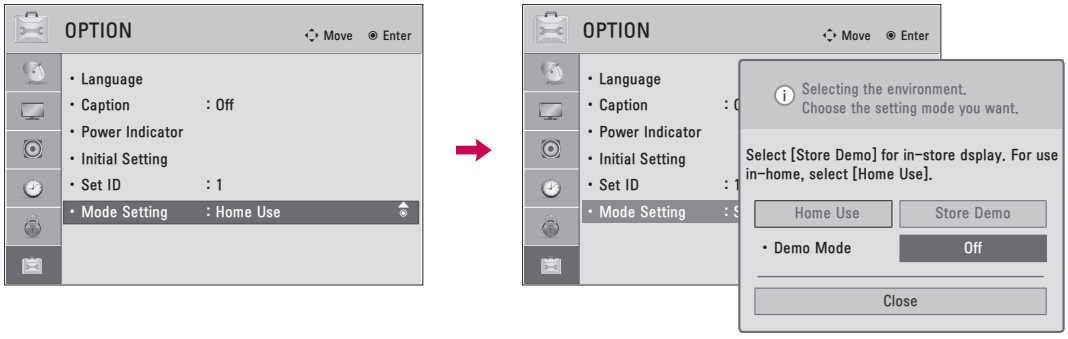
4 BACK Return to the previous menu.

EXIT Return to TV viewing.

- "**Store Demo**" Mode is only intended for use in retail environments. Customers can adjust the "**Picture** menu - **Picture mode**" manually while inspecting the TV, but the TV will automatically return to preset in-store mode after 5 minutes.
- "**Store Demo**" Mode is an optimal setting for displaying at stores. "Store Demo" mode initializes the TV to set the image quality.

DEMO MODE

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



1 MENU Select **OPTION**.

2 ENTER Select **Mode Setting**.

3 ENTER Select **Store Demo**.

4 ENTER Select **On**.

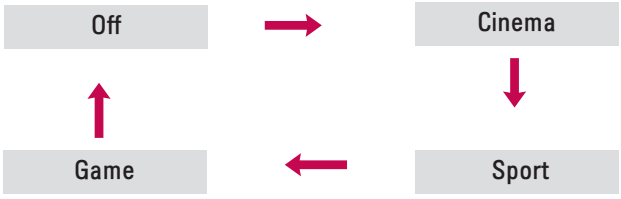
5 EXIT Return to TV viewing.

After a while, **Demo Mode**. starts.

If you want to stop the demo, press any button (Except VOL +, - and MUTE button).

AV MODE

AV Mode toggles through preset Video and Audio settings.





Press the **AV MODE** button repeatedly to select the desired source.

- If you select "**Cinema**" in AV mode, **Cinema** will be selected both for "PICTURE menu - Picture Mode" and "AUDIO menu - Sound Mode" respectively.
- If you select "**Off**" in AV mode, the "**Picture Mode**" and "**Sound Mode**" return to previous selected value.
- **Off**: Disables the AV MODE.
- **Cinema**: Optimizes video and audio for watching movies.
- **Sport**: Optimizes video and audio for watching sports events.
- **Game**: Optimizes video and audio for playing games.

SIMPLINK

SIMPLINK allows you to control and play other AV devices connected with HDMI cable without additional cables and settings. This TV may work with devices with HDMI-CEC support, but only devices with the SIMPLINK logo are fully supported.

SIMPLINK can be turned on and off in the user menus.



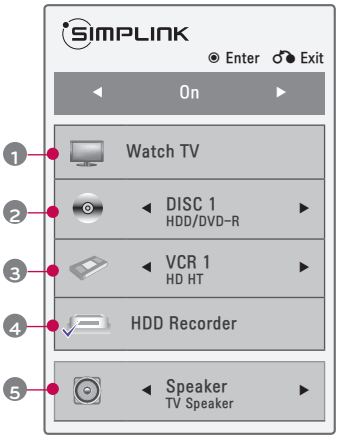
1 Display **SIMPLINK** menu.

2 Select **On**.

3 Select the desired device.

4 Control connected AV devices.

1. **TV viewing**: Switch to the previous TV channel regardless of the current mode.
2. **DISC playback**: Select and play discs. When multiple discs are available, the disc devices are conveniently displayed at the bottom of the screen.
3. **VCR playback**: Control the connected VCR.
4. **HDD Recordings playback**: Control recordings stored in HDD.
5. **Audio Out to Home Theater speaker/ Audio Out to TV**: Select Home Theater speaker or TV speaker for Audio Out.



▶When no device is connected (displayed in gray)

▶Selected Device

▶When a device is conected (displayed in bright color)

SIMPLINK Functions

- **Direct Play:** After connecting AV devices to the TV, you can directly control the devices and play media without additional settings.
- **Select AV device:** Enables you to select one of the AV devices connected to the TV.
- **Disc playback:** Control connected AV devices by pressing the ^ v < >, **ENTER**, ▶, ■, ❚❚, ◀◀ and ▶▶ buttons.
- **Power off all devices:** When you power off the TV, all connected devices are turned off.
- **Switch audio-out:** Offers an easy way to switch audio-out.
- **Sync Power on:** When the equipment with Simplink function connected HDMI terminal starts to play, The TV will automatically turn on.

Note: To operate SIMPLINK, an HDMI cable over Version 1.3 with *CEC function should be used. (*CEC: Consumer Electronics Control).

(A device, which is connected to the TV through a HDMI cable but does not support SIMPLINK, does not provide this function)

NOTE

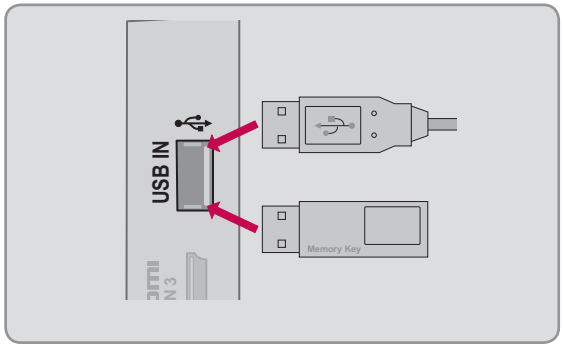
- ▶ Connect the HDMI/DVI IN or HDMI IN terminal of the TV to the rear terminal (HDMI terminal) of the SIMPLINK device with the HDMI cable
- ▶ When you switch the Input source with the INPUT button on the remote control, the SIMPLINK device will stop.
- ▶ When you select a device with home theater functionality, the sound output automatically switches to the home theater speakers and the TV speakers are turned off.
- ▶ If a connected SIMPLINK home theater system doesn't play the audio from the TV, connect the DIGITAL AUDIO OUT terminal on the back of the TV to the DIGITAL AUDIO IN terminal on the back of the SIMPLINK device with an OPTICAL cable.

MY MEDIA

CONNECTION METHOD

USB Connection

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



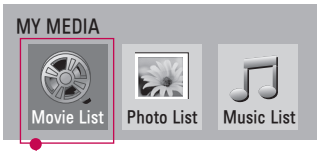
Precautions when using the USB device

- 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.

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.



Except 32/42/47LD420, 32/37/42/47LD450, 37/42/47LD450C, 32/42/47/55LD520, 55LD520C

1 MENU Select **MY MEDIA**.

2 ENTER Select **Movie List**, **Photo List** or **Music List**.

3 ENTER

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

When removing the USB device

Select the **USB Device** menu before removing the USB device.

1 Q.MENU Select **USB Device**.

2 ENTER Select **Eject**.

MOVIE LIST

(Except 32/42/47LD420, 32/37/42/47LD450, 37/42/47LD450C, 32/42/47/55LD520, 55LD520C)

The movie list is activated once a USB drive is detected. It is used when playing movie files on the TV. It displays all of the video files it recognizes.
The On-Screen Display on your model may be slightly different.

Supported movie file

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

Precautions when playing the video files

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

Supported Video Formats

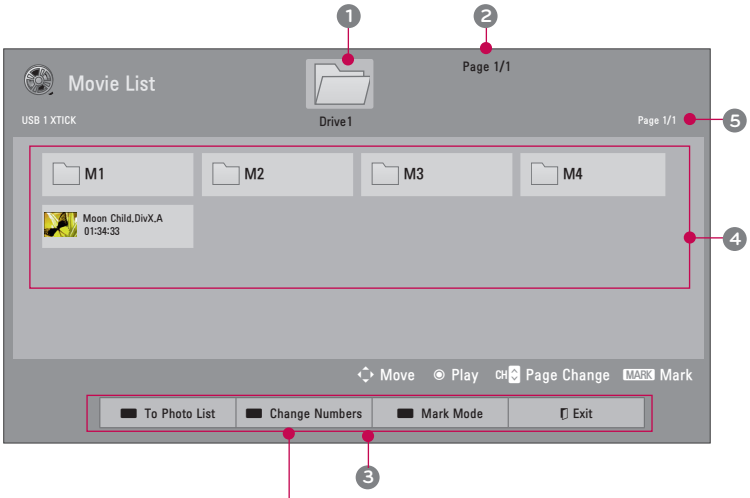
File / Extension name	Video Decoder	Audio Codec	Max Resolution
mpg, mpeg	MPEG1, MPEG2	MP2, MP3, Dolby Digital, LPCM	1920 x 1080 @ 30p (Only Motion JPEG 640x480@30p)
dat	MPEG1	MP2	
ts, trp, tp	MPEG2, H.264, AVS, VC1	MP2, MP3, Dolby Digital	
vob	MPEG1, 2	MP2, MP3, Dolby Digital, LPCM	
mp4, mov	MPEG4,DivX 3.11, DivX 4.12, DivX 5.x, DivX 6, Xvid 1.00, Xvid 1.01, Xvid 1.02, Xvid 1.03, Xvid 1.10-beta1/2H.264	MP3	
mkv	H.264, MPEG-1,2,4	MP2, MP3, Dolby Digital, LPCM	
divx, avi	MPEG2, MPEG4, DivX 3.11, DivX 4, DivX 5, DivX 6, Xvid 1.00, Xvid 1.01, Xvid 1.02, Xvid 1.03, Xvid 1.10-beta1/2H.264	MP2, MP3, Dolby Digital, LPCM, ADPCM	
Motion JPEG (avi, mp4, mkv)	JPEG	LPCM, ADPCM	
asf, wmv	VC1	WMA	
flv	Sorenson H.263, H264	MP3	

Screen Components

1 MENU Select **MY MEDIA**.

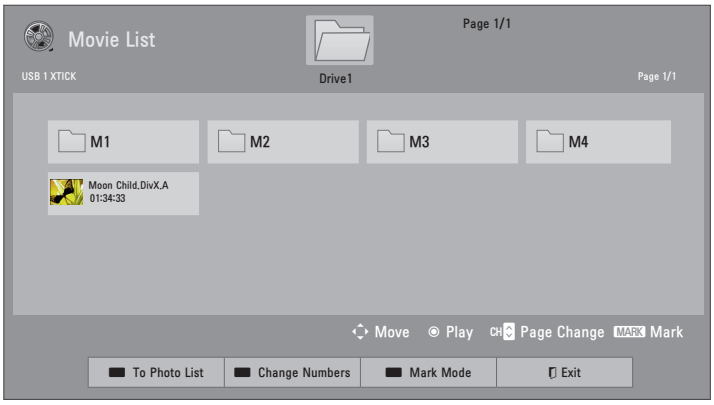
2 ENTER ENTER Select **Movie List.**

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



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

Movie Selection



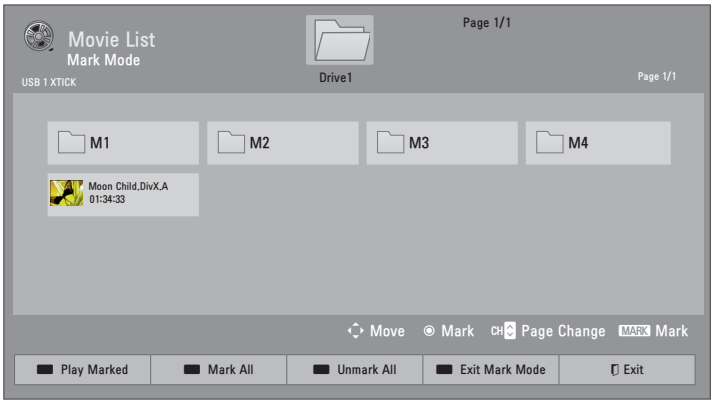
1 Select the target folder or drive.

2 Select the desired movie title.

3 Play the movie file.

- Use the CH (∧ ∨) button to navigate in the movie page.

Mark Mode



1 Select the target folder or drive.

2 Select the desired movie title.

3 Mark your desired movie file.

4 Play the marked movie file.
It displays the current movie status progress bar on the bottom of the screen.

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

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

Using the Movie List Function



1 Q.MENU Show the **Option** menu.

2 Select **Set Video Play.**, **Set Video.**, or **Set Audio.**

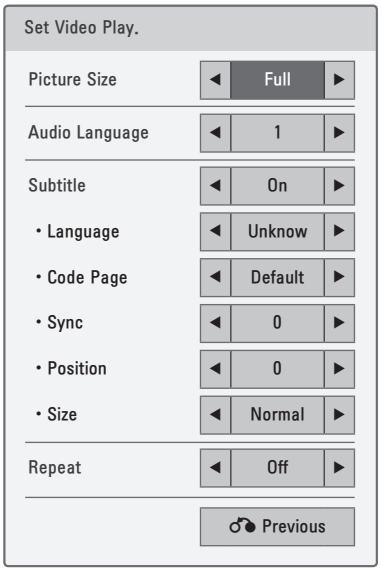
NOTE

- Option values changed in the Movie List does not affect Photo List and Music List.
- Option values changed in Photo List and Music List are changed likewise in Photo List and Music List, but not in the Movie List.
- When replaying a video file after stopping, you can play from where it stopped automatically.
- If you select "Yes" when playing the same file after the video file has been stopped, it will restart where it stopped previously.
- If continuous series files exist within the folder, the next file will automatically be played. But, this excludes cases when the Repeat function of Movie List Option is turned "On" (Refer to page 85) or when set as **Marked Play**.

Using the remote control

EXIT	Return to TV viewing.
◀◀ ▶▶	Select the required speed: x2, x4, x8, x16, x32 (backward/forward).
II	Pauses the media player. If no buttons are pressed on the remote control for 10 minutes after pausing, the TV returns to the playback state.
II ▶▶	Displays a slow motion.
◀ ▶	Move to a specific frame forward or backward while playing a video. A cursor indicating the position can be viewed on the screen. It may not work properly for some movie files.
▶	Return to normal playback.
BACK	Hide the menu on screen. To see the menu again, press **ENTER** button to display.
ENERGY SAVING	Press the **ENERGY SAVING** button repeatedly to increase the brightness of your screen (Refer to p. 104).
AV MODE	Press the **AV MODE** button repeatedly to select the desired source (Refer to p. 75).

Set Video Play Menu Options



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

2 Make appropriate adjustments.

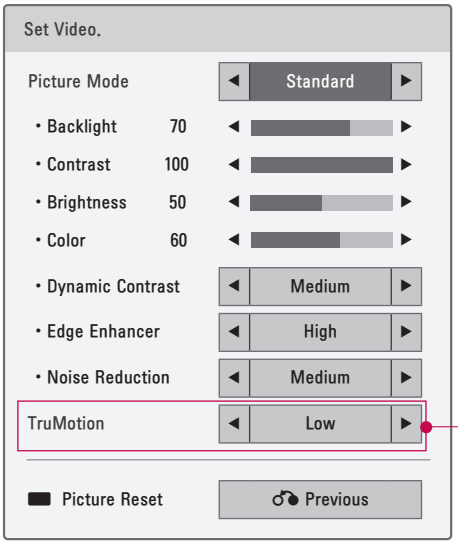
Code Page

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

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

* Image shown may differ from your TV.

Set Video Menu Options



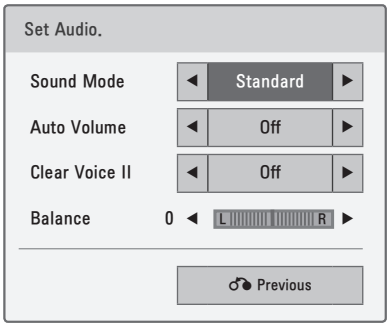
('TruMotion' dependent on model)

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

2 Make appropriate adjustments.

BLUE Reset picture settings to default.

Set Audio Menu Options



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

2 Make appropriate adjustments.

PHOTO LIST

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

Supported photo file: *.JPG

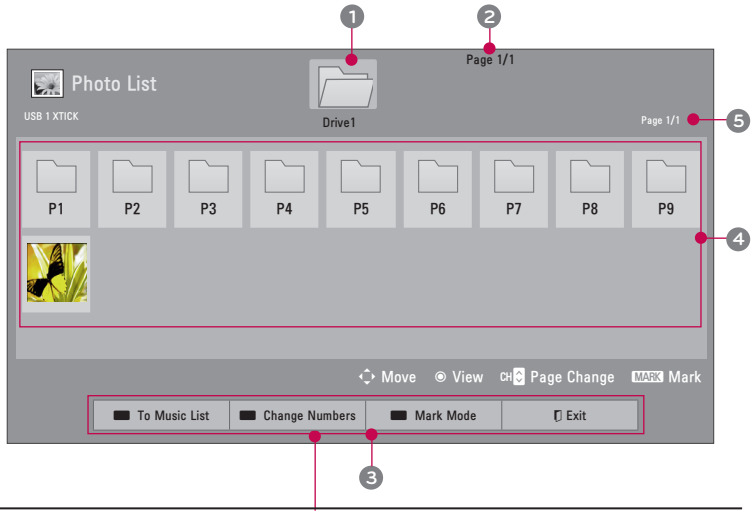
- Baseline: 64 pixel (width) x 64 pixel (height) to 15360 pixel (width) x 8640 pixel (height)
- Progressive: 64 pixel (width) x 64 pixel (height) to 1920 pixel (width) x 1440 pixel (height)
- You can play JPEG files only.
- Non-supported files are displayed in the form of predefined icon.

Screen Components

1 MENU Select **MY MEDIA**.

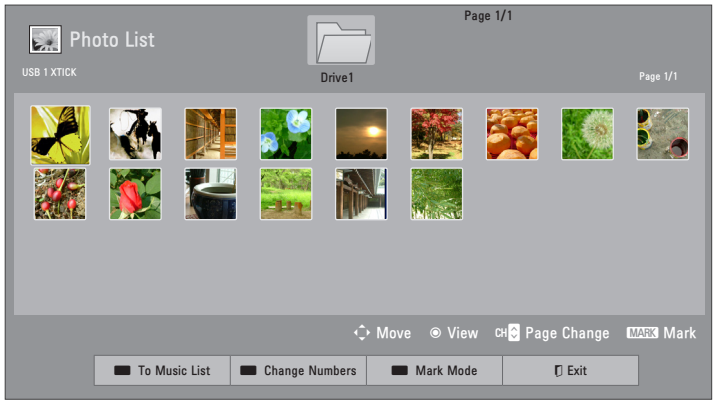
2 ENTER ENTER Select **Photo List.**

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



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

Photo Selection



1 Select the target folder or drive.

2 Select the desired photos.

3 Photo file is displayed.

- Use the CH (∧ ∨) 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.

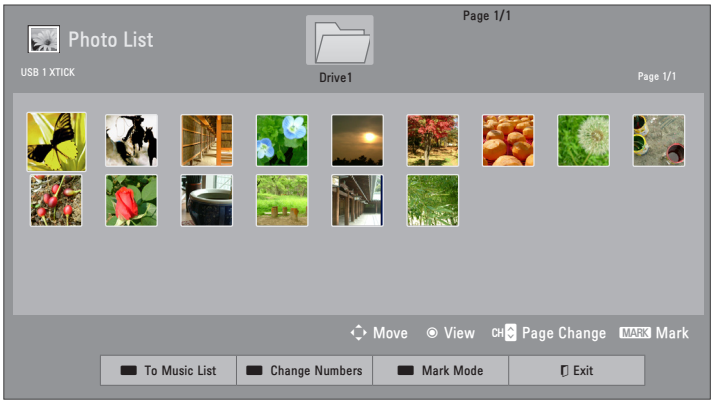
4 View the marked photo files.

RED	**View Marked**: Display the selected photo.
GREEN	**Mark All**: Mark all photos on the screen.
YELLOW	**Unmark All**: Deselect all marked photos.
BLUE	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.





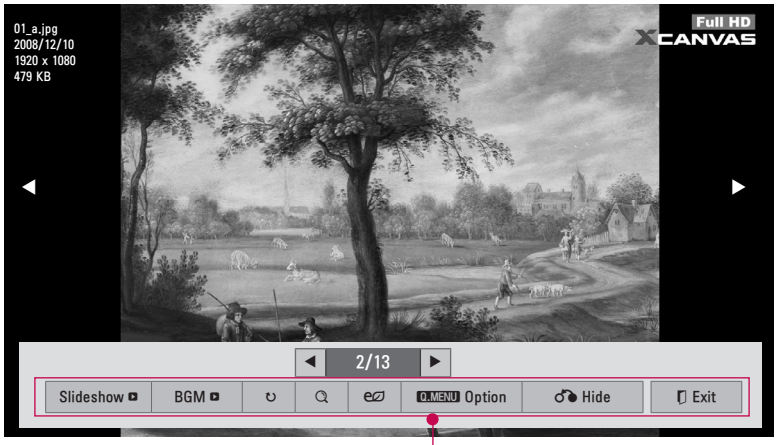
The aspect ratio of a photo may change the size of the photo displayed on the screen in full size.

1 Select the target folder or drive.

2 ENTER Select the desired photos.

3 ENTER The selected photo is displayed in full size.

- Use the CH (∧ ∨) button to navigate in the photo page.



4 ENTER

Select the **Slideshow**, **BGM**, ↻ **(Rotate)**, Q **(Zoom In)**, e **(Energy Saving)**, **Option**, or **Hide**.

- Use ‹ › button to select the previous or next photo.

▶ **Slideshow**: Selected photos are displayed during the slide show. If no photo is selected, all photos in the current folder are displayed during slide show.
- Set the time interval of the slide show in **Option-Set Photo View.** menu (Refer to p. 91).
- You can adjust **Option** by using the **Q.MENU** button on the remote control.

▶ **BGM** (Background Music): Listen to music while viewing photos in full size.
- Set the BGM device and album in **Option-Set Photo View.** menu (Refer to p. 91).
- You can adjust **Option** by using the **Q.MENU** button on the remote control.

▶ ↻ **(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.

▶ Q **(Zoom In)**: View the photo by zoom in 2, 4 times by using Blue button.

▶ e **(Energy Saving)**: Increase the brightness of your screen by using ENERGY SAVING button.

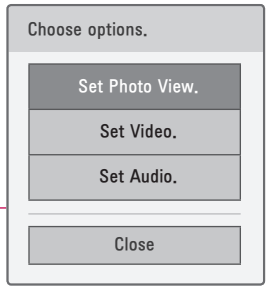
▶ **Option**: Set values for **Slide Speed** and **Music Album** (Refer to p. 91).
- You cannot change **Music Album** while BGM is playing.
- You can only select the MP3 folder saved on the device that currently displays the photo.

▶ **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





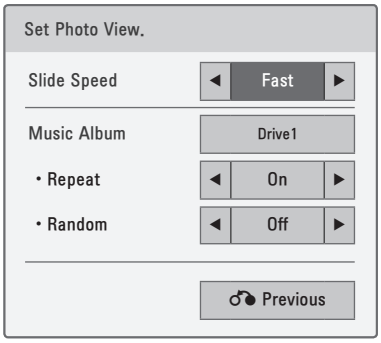
1 Q.MENU Show the **Option** menu.

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

NOTE

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

Set Photo View Menu Options



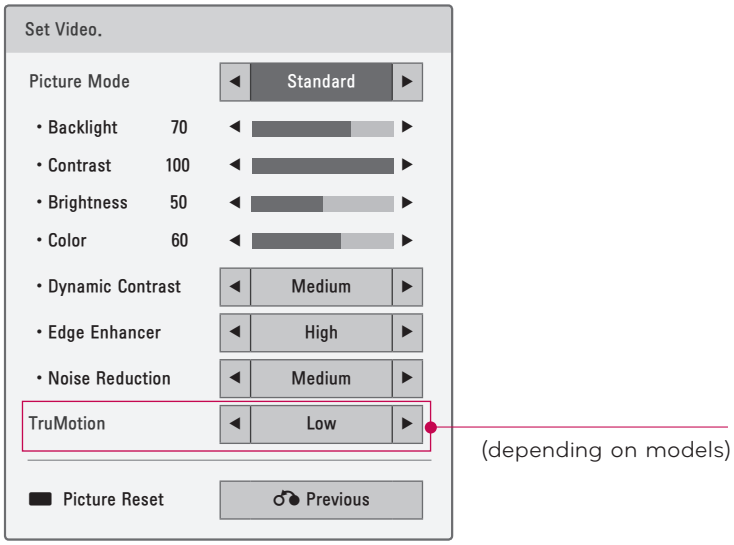
1 Select **Slide Speed** or **Music Album**.

2 Make appropriate adjustments.

MY MEDIA

* Image shown may differ from your TV.

Set Video Menu Options



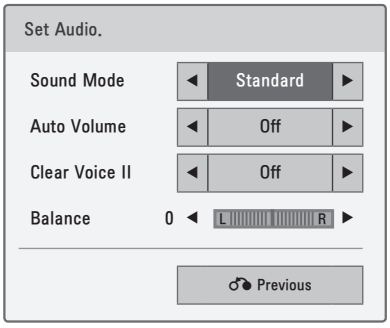
(depending on models)

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

2 Make appropriate adjustments.

BLUE Initialize the adjusted picture value.

Set Audio Menu Options



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

2 Make appropriate adjustments.

MUSIC LIST

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

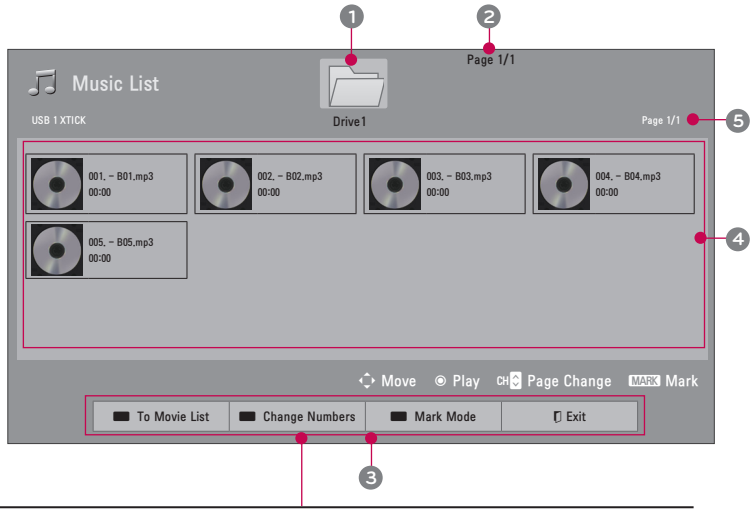
MUSIC (*.MP3) supporting file
Bit rate 32 Kbps - 320 Kbps
• Sampling rate MPEG1 Layer3: 32 kHz, 44.1 kHz, 48 kHz
• Sampling rate MPEG2 Layer3: 16 kHz, 22.05 kHz, 24 kHz
• Sampling rate MPEG2.5 Layer3: 8 kHz, 11.025 kHz, 12 kHz

Screen Components

1 MENU Select **MY MEDIA**.

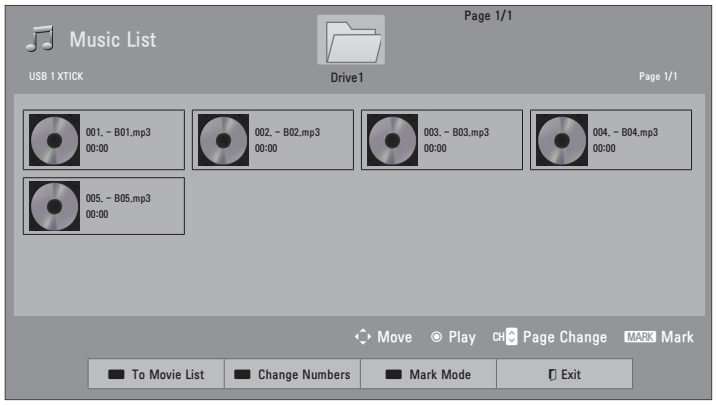
2 ENTER ENTER Select **Music List.**

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



GREEN	Move to **Movie List** or **Photo List**.
YELLOW	**Change Numbers**: Changes the number or thumbnails displayed at a time.
BLUE	Allows you to mark certain files.
EXIT	Return to TV viewing.
ENERGY SAVING	Press the **ENERGY SAVING** button repeatedly to increase the brightness of your screen (Refer to p. 104). (It's available "**ENERGY SAVING** - **Off**, **Screen Off**" only.)

Music Selection



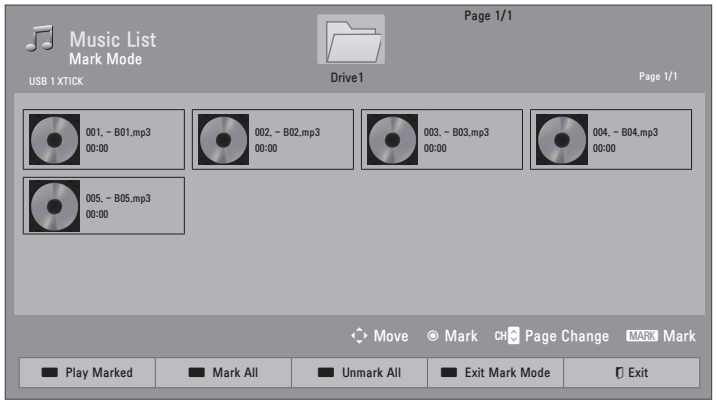
1 Select the target folder or drive.

2 ENTER Select the desired music file.

3 ENTER Music files are played.

- Use the CH (∧ ∨) button to navigate in the music page.

Mark Mode



1 Select the target folder or drive.

2 ENTER Select the desired music file.

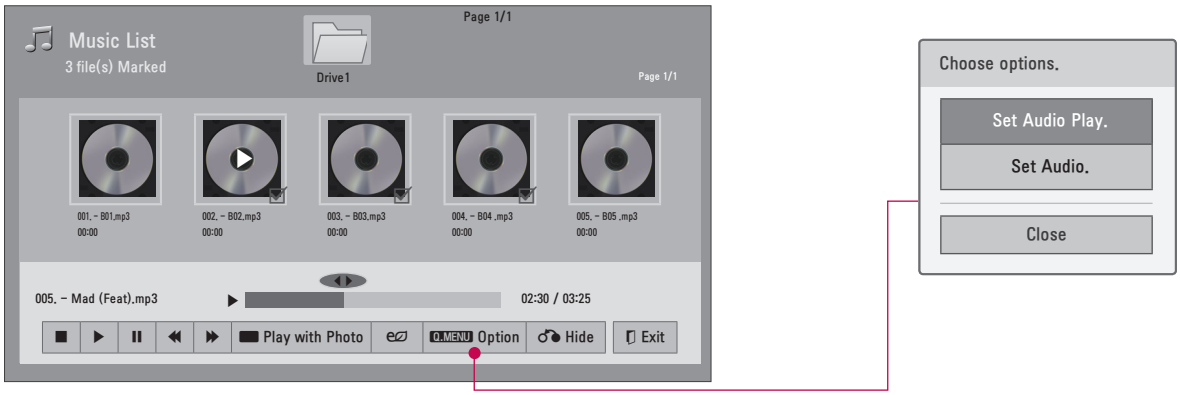
3 MARK FAV Mark your desired music file.

4 RED Play the marked music file.

RED	**Play Marked**: Play the selected songs. Once a song finishes playing, the next selected one will be played automatically.
GREEN	**Mark All**: Mark all songs in the folder.
YELLOW	**Unmark All**: Deselect all marked song.
BLUE	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 Q.MENU Show the **Option** menu.

2 ENTER Select **Set Audio Play.** or **Set Audio.**.

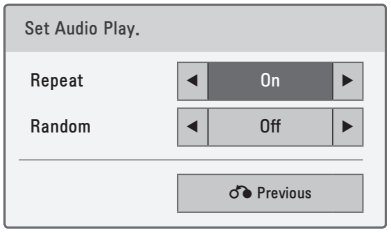
NOTE

- Option values changed in Movie List does not affect Photo List and Music List.
- Option value changed in Photo List and Music List are changed likewise in Photo List and Music List excluding Movie List.
- You can listen to the music only within the device currently played.

Using the remote control

■	Stop playback.
▶	Return to normal playback.
❚❚	Paused playback.
◀◀ ▶▶	Select the previous or next song.
GREEN	**Play with Photo**: Start playing the selected songs and then move to the Photo List.
ENERGY SAVING	Press the **ENERGY SAVING** button repeatedly to increase the brightness of your screen (Refer to p. 104). (It's available "**ENERGY SAVING** - **Off**, **Screen Off**" only.)
◀ ▢ ▶	A cursor indicating the position can be played on the screen.
EXIT	Move to the previous menu screen.

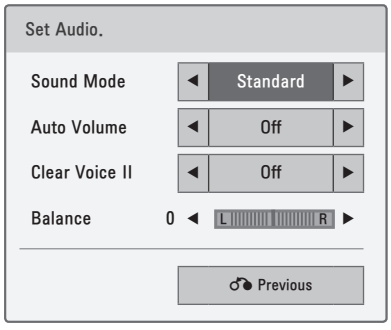
Set Audio Play Menu Options



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

2 Make appropriate adjustments.

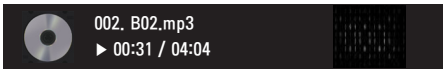
Set Audio Menu Options



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 a extended period of time.



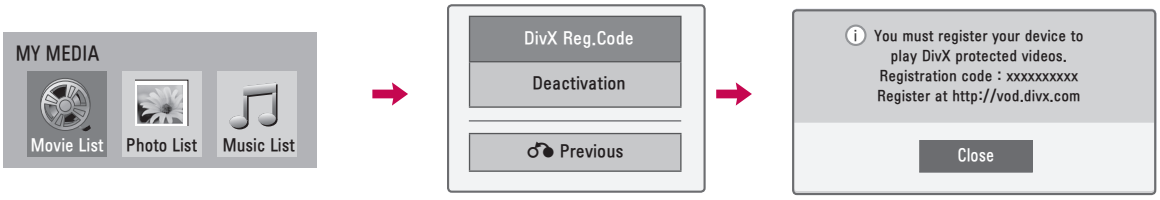
NOTE

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

DIVX REGISTRATION CODE

(Except 32/42/47LD420, 32/37/42/47LD450, 37/42/47LD450C, 32/42/47/55LD520, 55LD520C)

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



1 MENU Select **MY MEDIA**.

2 ENTER BLUE Select DivX Option.

3 Select **DivX Reg. Code**.

4 ENTER Display Divx Reg. Code.

NOTE

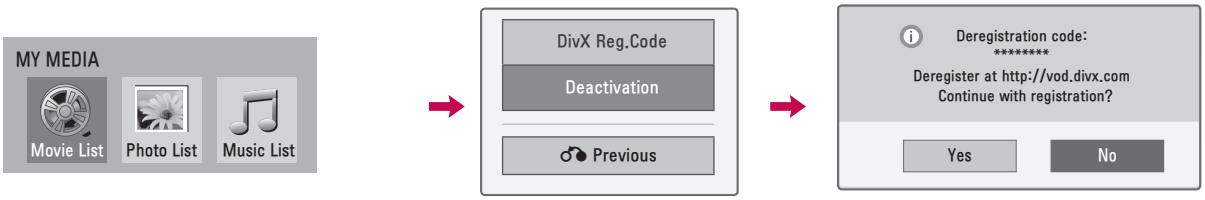
- When loading, some buttons may not work.
- If you use the DivX registration code of another device, the rented or purchased DivX file cannot be played. Therefore always use the DivX registration code assigned to this product.
- The video or audio of a file converted based on a standard other than the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

DEACTIVATION

(Except 32/42/47LD420, 32/37/42/47LD450, 37/42/47LD450C, 32/42/47/55LD520, 55LD520C)

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

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



1 MENU Select **MY MEDIA**.

2 ENTER BLUE Select DivX Option.

3 Select **Deactivation**.

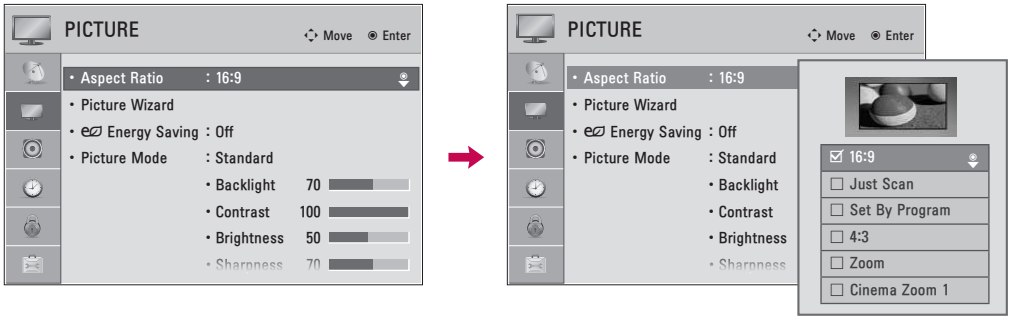
4 ENTER Select **Yes**.

5 ENTER Display **Deactivation**.

PICTURE CONTROL

PICTURE SIZE (ASPECT RATIO) CONTROL

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



1 MENU — Select **PICTURE**.

2 ENTER — Select **Aspect Ratio**.

3 ENTER — Select the desired picture format.

4 BACK — Return to the previous menu.

EXIT — Return to TV viewing.

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

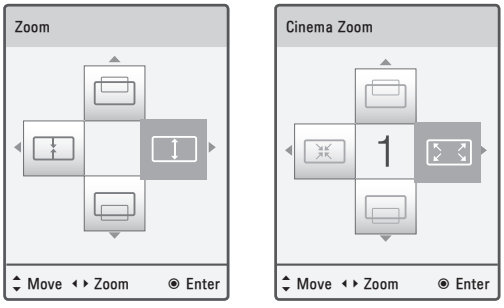
When adjusting **Zoom** or **Cinema Zoom** in Q.MENU

1 Q.MENU — Select **Aspect Ratio**.

2 ENTER — Select **Zoom** or **Cinema Zoom**.

3 ENTER — Adjust proportion of Zoom or Cinema Zoom. The Cinema Zoom adjustment range is 1-16.

4 ENTER — Move the image on the screen.



16:9

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



Just Scan

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

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

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



Set By Program

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

(4:3➞4:3)



(16:9 ➞16:9)



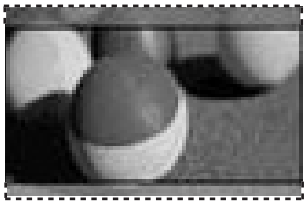
4:3

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



Zoom

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



Cinema Zoom

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

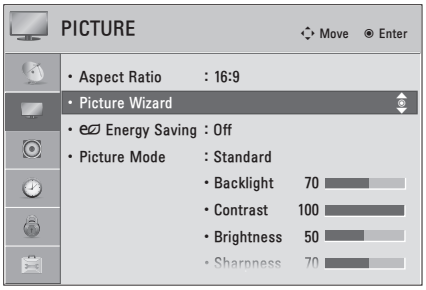
This enlarges an image with cinemascope aspect ratio (2.35:1) without distortion.

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



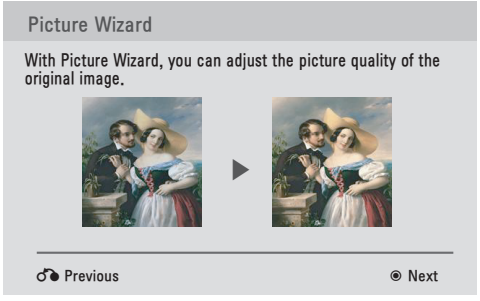
PICTURE WIZARD

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

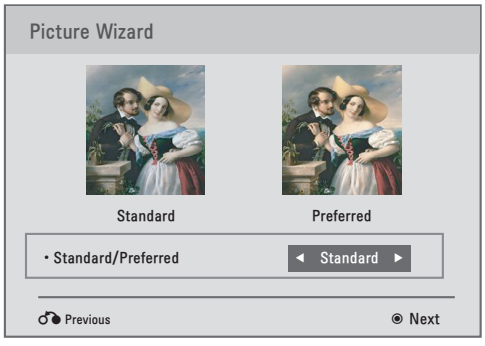


1 MENU Select **PICTURE**.

2 ENTER ENTER Select **Picture Wizard**.

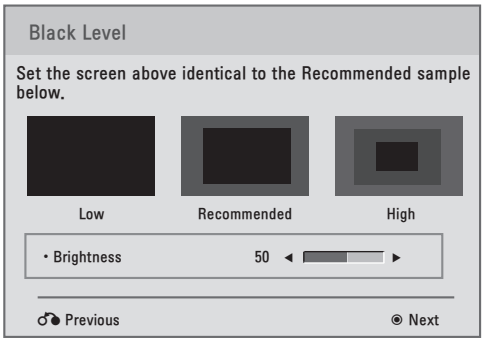


3 ENTER Adjust **Picture Wizard**.

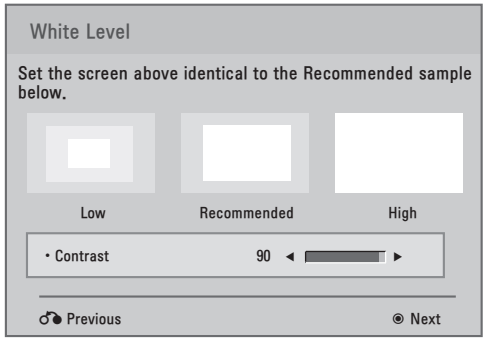


4 ENTER Adjust **Standard/ Preferred**.

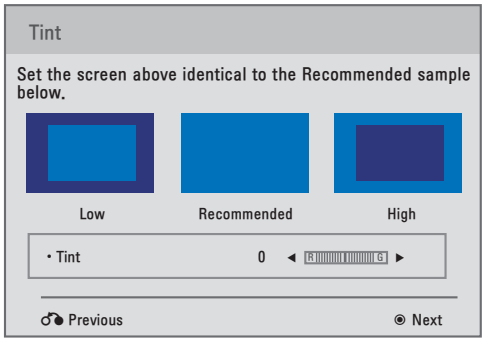
■ If you select **Preferred**, OSD (On Screen Display) differ from that shown in this manual.



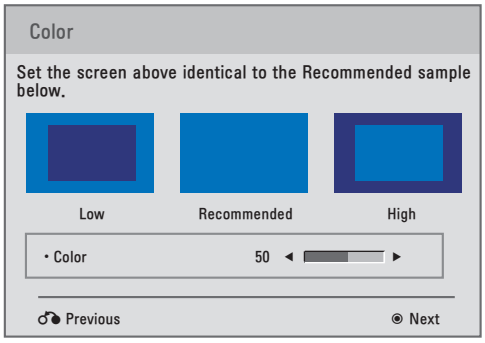
5 ENTER Adjust **Black Level**.



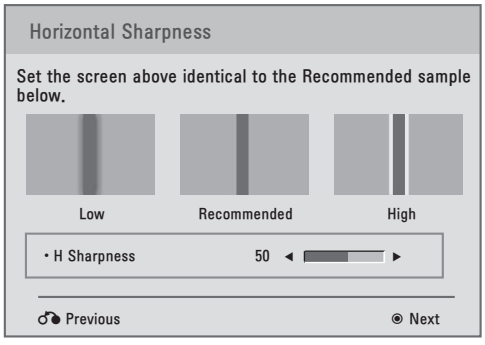
6 ENTER Adjust **White Level**.



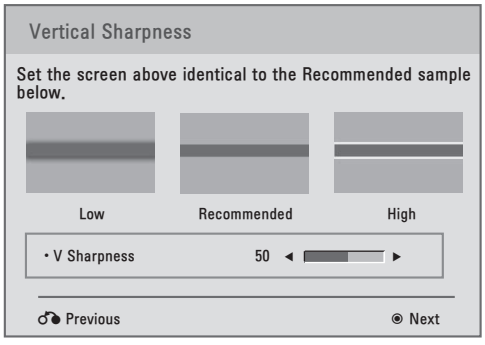
7 ENTER Adjust **Tint**.



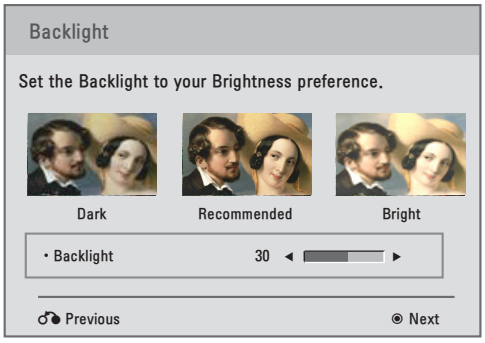
8 ENTER Adjust **Color**.



9 ENTER Adjust **Horizontal Sharpness**.

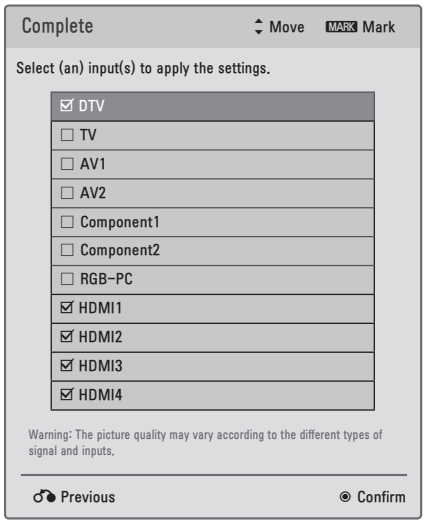


10 ENTER Adjust **Vertical Sharpness**.



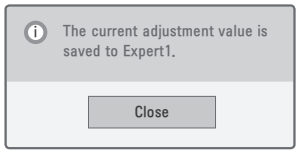
11 ENTER Adjust **Backlight**.

i.e)



12 MARK FAV Select input source to apply the settings.

13 ENTER Save.

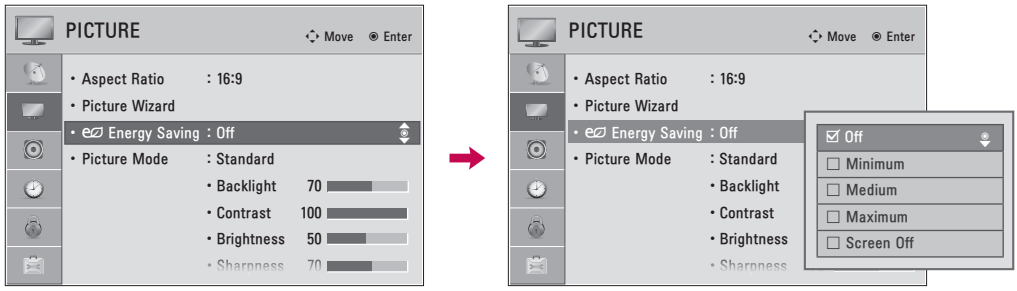


14 ENTER Finish the Picture Wizard.

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

ENERGY SAVING

It reduces the TV's power consumption by lowering the backlight level.
You can increase the brightness of your screen by adjusting the **Energy Saving** level or by adjusting the **Picture Mode**.



1 MENU — Select **PICTURE**.

2 ENTER — Select **Energy Saving**.

3 ENTER — Select **Off**, **Minimum**, **Medium**, **Maximum**, or **Screen Off**.

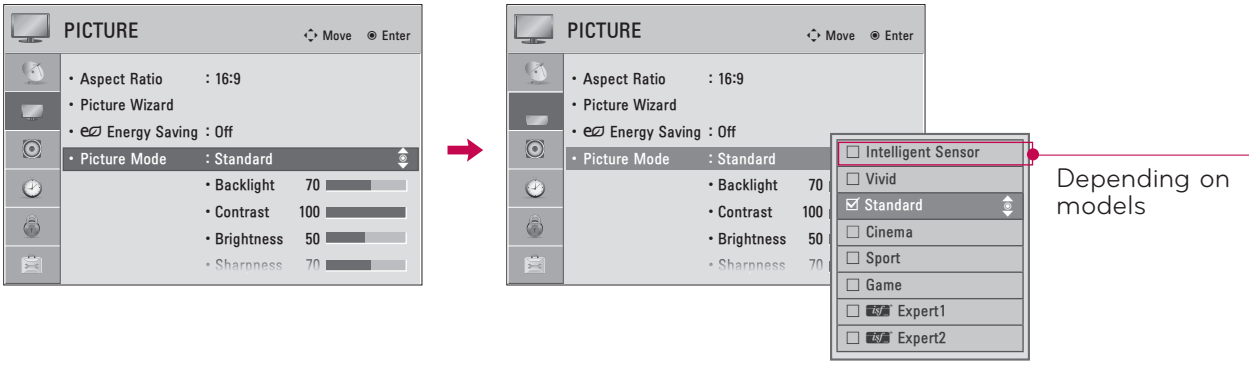
4 BACK — Return to the previous menu.

EXIT — Return to TV viewing.

- When selecting **Screen off**, the screen will turn off after 3 seconds.
- If you adjust "**Energy Saving-Maximum**", **Backlight** feature will not work.
- Press the **ENERGY SAVING** button repeatedly to select the appropriate Energy Saving setup.

PRESET PICTURE SETTINGS (PICTURE MODE)

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



1 MENU Select **PICTURE**.

2 ENTER Select **Picture Mode**.

3 ENTER Select **Vivid**, **Standard**, **Cinema**, **Sport**, or **Game**.

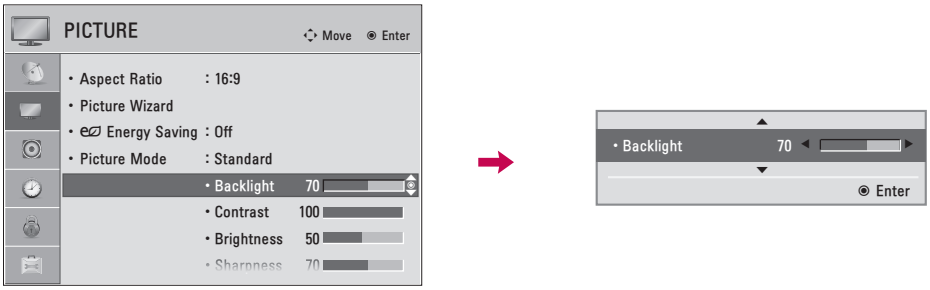
4 BACK Return to the previous menu.

EXIT 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.
- **Expert**: This is the mode to adjust the video in detail for video quality expert and general user.
- You can also adjust **Picture Mode** in the **Q.MENU**.
- When selecting **Intelligent Sensor**, **Energy Saving** is changed to **Auto** automatically.
- When selecting **Intelligent Sensor**, it changes Backlight, contrast, brightness, sharpness, color and tint automatically.
- **Intelligent Sensor**: The most suitable picture is automatically adjusted according to the surrounding conditions.

MANUAL PICTURE ADJUSTMENT - USER MODE

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



1 MENU — Select **PICTURE**.

2 ENTER — Select **Picture Mode**.

3 ENTER — Select **Vivid**, **Standard**, **Cinema**, **Sport**, or **Game**.

4 ENTER — Select **Backlight**, **Contrast**, **Brightness**, **Sharpness**, **Color**, **Tint**, **Color Temp.**, or **Advanced Control**.

5 ENTER — Make appropriate adjustments.

6 BACK — Return to the previous menu.

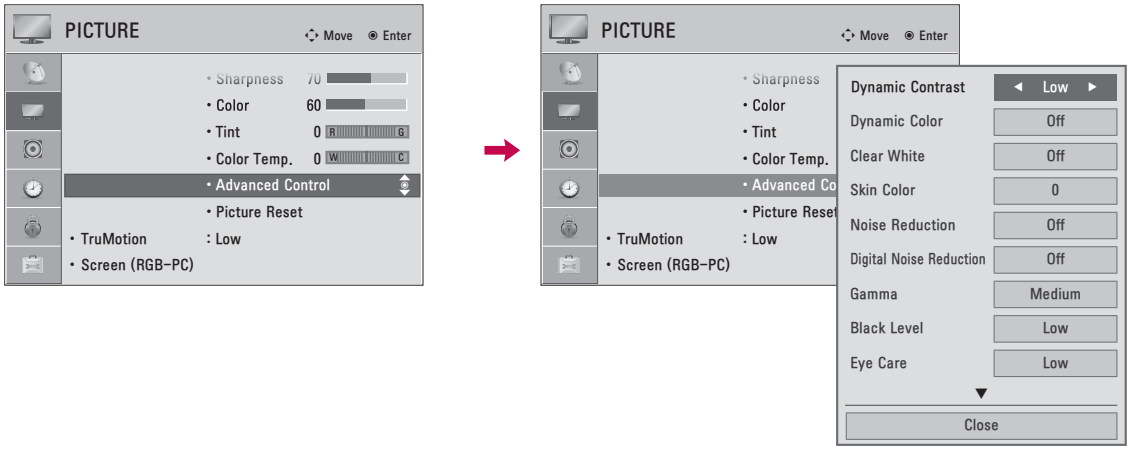
EXIT — Return to TV viewing.

- **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 IMPROVEMENT TECHNOLOGY (ADVANCED CONTROL)

Advanced Control allows you to adjust some of the advanced features of your LG display.

To reset to the factory default after making adjustments to each input source, execute the **Picture Reset** function for each Picture Mode.



1 MENU Select **PICTURE**.

2 ENTER Select **Advanced Control**.

3 ENTER Select your desired menu option.

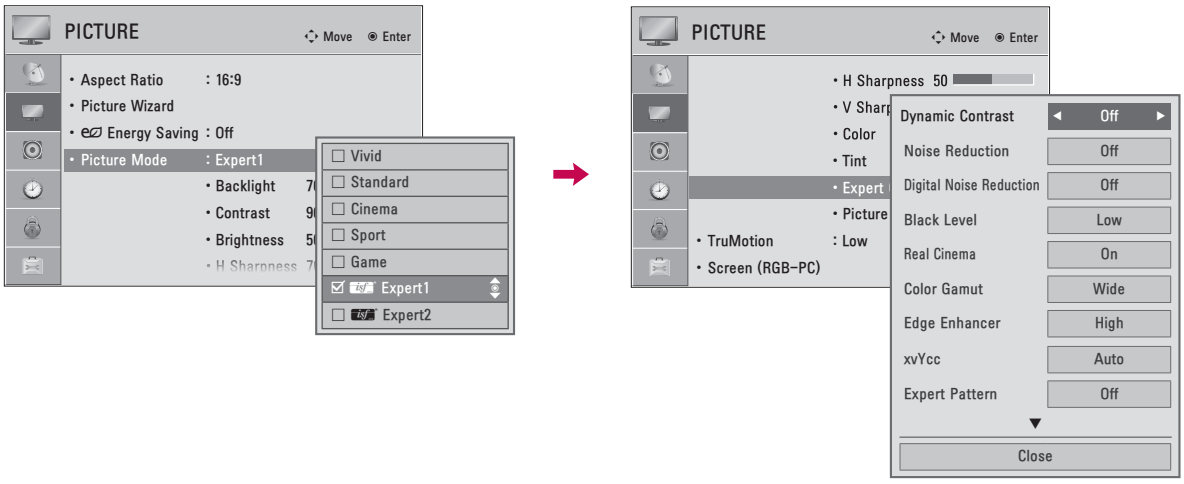
4 Make appropriate adjustments.

5 BACK Return to the previous menu.

EXIT Return to TV viewing.

EXPERT PICTURE CONTROL

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



1 MENU — Select **PICTURE**.

2 ENTER — Select **Picture Mode**.

3 ENTER — Select **Expert1** or **Expert2**.

4 ENTER — Select **Expert Control**.

5 ENTER — Select your desired menu option.

6 — Make appropriate adjustments.

7 BACK — Return to the previous menu.

EXIT — Return to TV viewing.

*This feature is not available for all models.

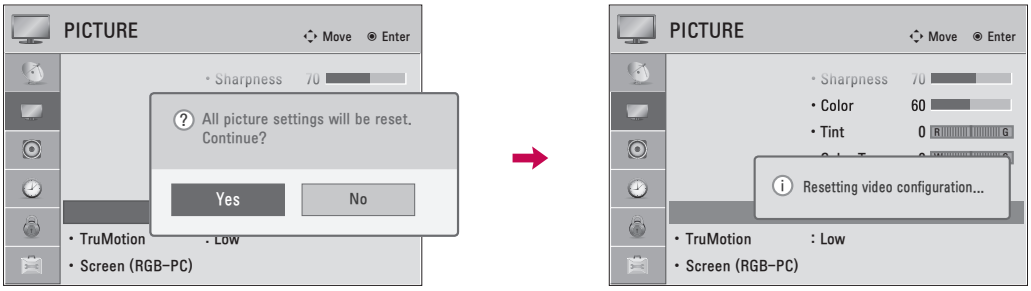
Dynamic Contrast	■ Adjusts the contrast to keep it at the best level according to the brightness of the screen. The picture is improved by making bright parts brighter and dark parts darker.
Dynamic Color	■ Adjusts screen colors so that they look livelier, richer and clearer. This feature enhances hue, saturation and luminance so that red, blue and green white look more vivid.
Skin Color	■ It detects the skin area of video and adjusts it to express a natural skin color.
Noise Reduction	■ Reduces screen noise without compromising video quality.
Digital Noise Reduction	■ Removes noise caused by compressing video.
Gamma	■ You can adjust brightness of dark areas and middle gray level areas of the picture. 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.
Black Level	Low: The reflection of the screen gets darker. High: The reflection of the screen gets brighter. ■ 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	■ Make the white area of screen brighter and more white.
Eye Care	■ 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	■ 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	**Advanced Control** ■ Maximize the utilization of colors to increase color quality. Standard: Displays standard set of colors. Wide: Increase number of colors used. LED LCD TV/LCD TV: **Expert Control** ■ Displays color domain of the signal. 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.

PICTURE CONTROL

Edge Enhancer	■ Show clearer and distinctive yet natural edges in of the video. ■ This function is enabled in "**Picture Mode** - **Expert**".
xvYCC	■ 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 Filter	■ This function filters specific colors in the video. You can use the RGB filter to set color saturation and hue accurately.
Expert Pattern	■ This is a pattern used for expert adjustment. ■ This function is enabled in "**Picture Mode** - **Expert**" when you watch DTV.
Color Temperature	■ Adjusts the overall color of the screen by changing the white baseline. a. Gamma : Select 1.9, 2.2, 2.4 b. Method : 2 Points - Pattern: Inner, Outer - Red/Green/Blue Contrast, Red/Green/Blue Brightness: The adjustment range is -50 - +50. c. Method : 10 Point IRE - 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	■ 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. - 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 MENU Select **PICTURE**.

2 ENTER Select **Picture Reset**.

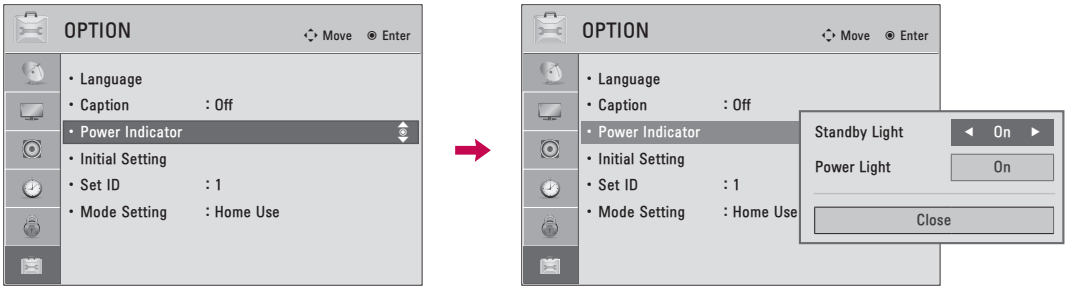
3 ENTER Select **Yes**.

4 ENTER Initialize the adjusted value.

EXIT Return to TV viewing.

POWER INDICATOR

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



1 MENU Select **OPTION**.

2 ENTER Select **Power Indicator**.

3 ENTER Select **Standby Light** or **Power Light**.

4 Select your desired options.

5 BACK Return to the previous menu.

EXIT Return to TV viewing.

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

TRUMOTION

- For 32/37/42/47/55LE5300, 42/47/55LE7300, 32/42/47/55LD520, 55LD520C, 42/47/55LD630

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



1 MENU Select **PICTURE**.

2 ENTER Select **TruMotion**.

3 ENTER Select **Low**, **High**, **User**, or **Off**.

Adjustment for **TruMotion** (Judder and Blur) with selecting **User**

4 ENTER Select **Judder** or **Blur**.

5 Make appropriate adjustments.

6 BACK Return to the previous menu.

EXIT Return to TV viewing.

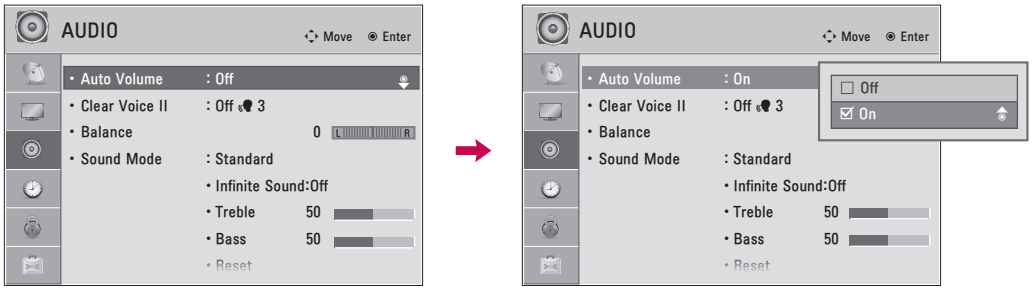
- **Off**: Turn off **TruMotion** operation.
- **Low**: Provides smooth picture movement. Use this setting for standard use.
- **High**: Provides smoother picture movement.
- **Judder**: Adjusts noise of the screen.
- **Blur**: Adjusts after-image of the screen.
- **TruMotion** works with all inputs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

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.



1 MENU Select **AUDIO**.

2 ENTER Select **Auto Volume**.

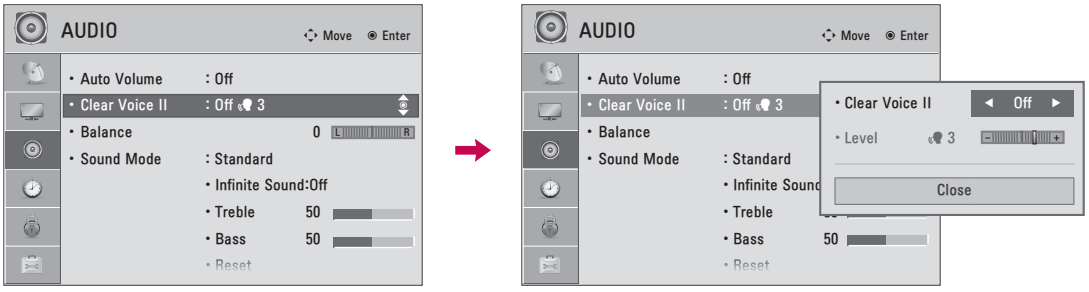
3 ENTER Select **On** or **Off**.

4 BACK Return to the previous menu.

EXIT Return to TV viewing.

CLEAR VOICE II

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



1 MENU Select **AUDIO**.

2 ENTER Select **Clear Voice II**.

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

Adjustment for Clear Voice Level with selecting On

4 Select **Level**.

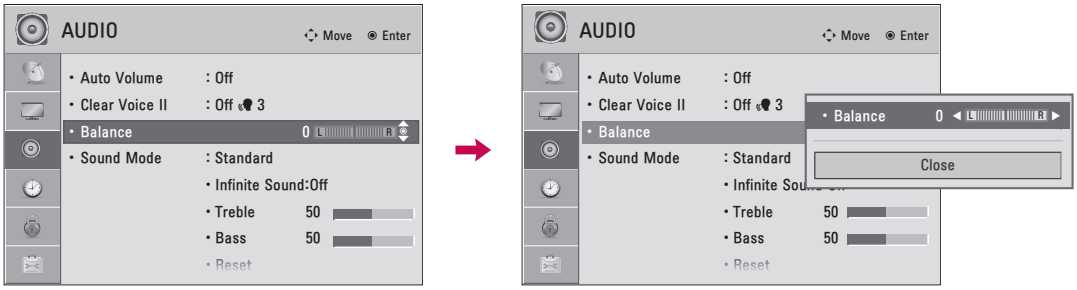
5 Make appropriate adjustments.

6 BACK Return to the previous menu.

EXIT Return to TV viewing.

BALANCE

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



1 MENU Select **AUDIO**.

2 ENTER Select **Balance**.

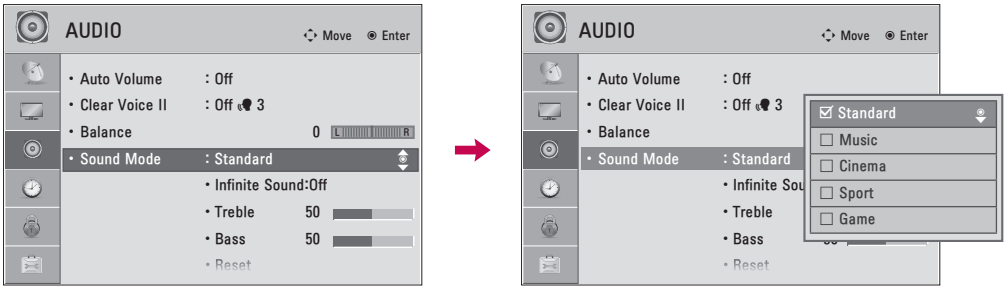
3 ENTER Make appropriate adjustments.

4 BACK Return to the previous menu.

EXIT 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 MENU Select **AUDIO**.

2 ENTER Select **Sound Mode**.

3 ENTER Select **Standard**, **Music**, **Cinema**, **Sport**, or **Game**.

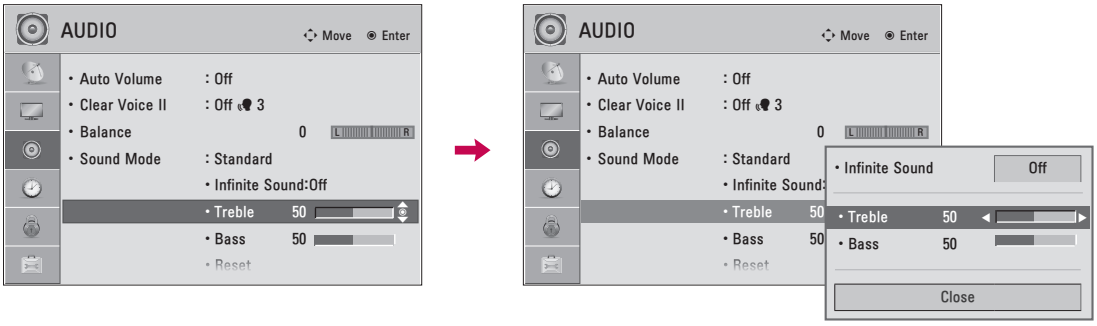
4 BACK Return to the previous menu.

EXIT 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 SETTING ADJUSTMENT - USER MODE

Adjust the sound to suit your taste and room situations.



1 MENU Select **AUDIO**.

2 ENTER Select **Sound Mode**.

3 ENTER Select **Standard**, **Music**, **Cinema**, **Sport**, or **Game**.

4 ENTER Select **Infinite Sound**, **Treble**, or **Bass**.

5 ENTER Make appropriate adjustments.

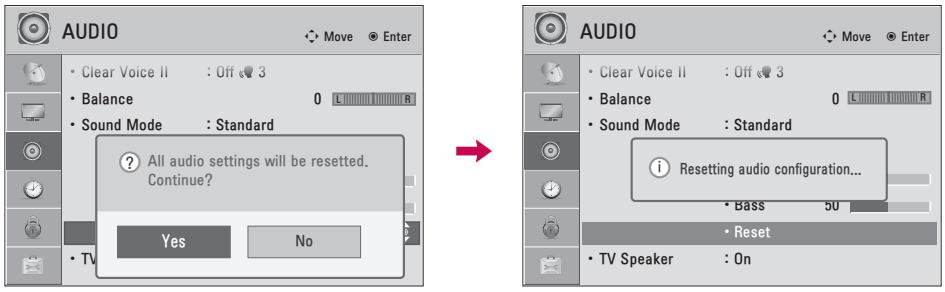
6 BACK Return to the previous menu.

EXIT 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 MENU Select **AUDIO**.

2 ENTER Select **Reset**.

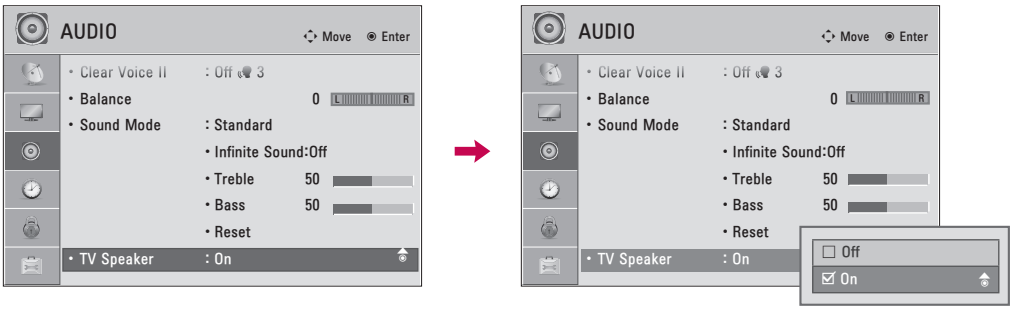
3 ENTER Select **Yes**.

4 ENTER Initialize the adjusted value.

EXIT Return to TV viewing.

TV SPEAKERS ON/OFF SETUP

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



1 MENU — Select **AUDIO**.

2 ENTER — Select **TV Speaker**.

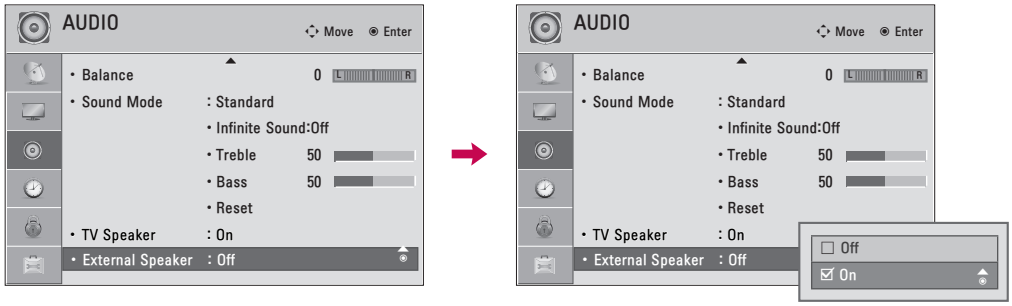
3 ENTER — Select **On** or **Off**.

4 BACK — Return to the previous menu.

EXIT — Return to TV viewing.

EXTERNAL SPEAKERS ON/OFF SETUP (For 32/37/42/47LD450C)

Turn the external speakers on if using external audio equipment.



1 MENU — Select **AUDIO**.

2 ENTER — Select **Exrernal Speaker**.

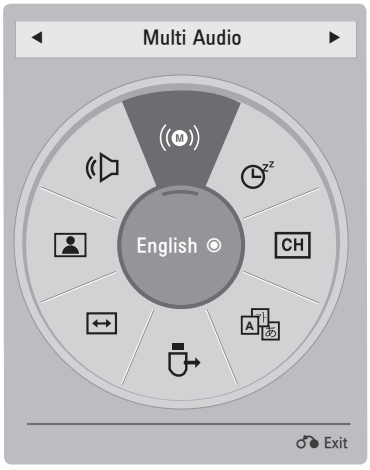
3 ENTER — Select **On** or **Off**.

4 BACK — Return to the previous menu.

EXIT — Return to TV viewing.

STEREO/SAP BROADCAST SETUP

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



Analog TV

1 Q.MENU ‹ › Select **SAP**.

2 ENTER ˄ ˅ Select **Mono**, **Stereo**, or **SAP**.

3 EXIT Return to TV viewing.

Digital TV

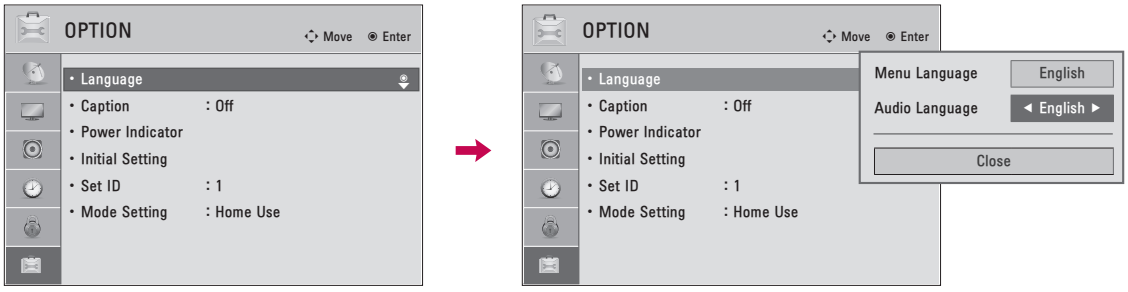
1 Q.MENU ‹ › Select **Multi Audio**.

2 ENTER ˄ ˅ Select other languages.

3 EXIT Return to TV viewing.

AUDIO LANGUAGE

This feature operates only in DTV/Cable DTV mode.



1 MENU Select **OPTION**.

2 ENTER Select **Language**.

3 ENTER Select **Audio Language**.

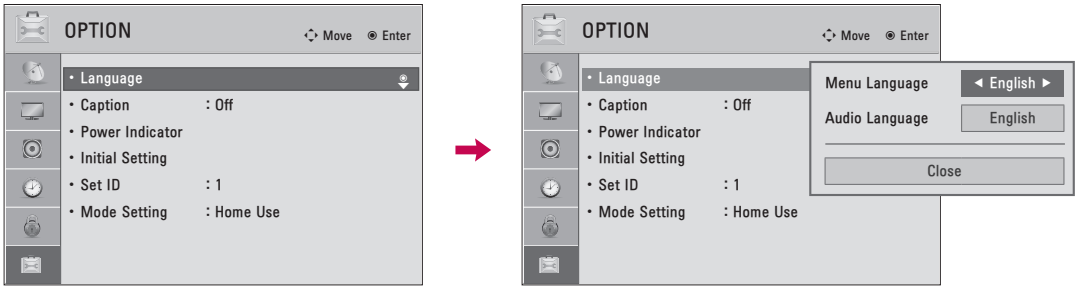
4 Select your desired language.

5 BACK Return to the previous menu.

EXIT Return to TV viewing.

ON-SCREEN MENUS LANGUAGE SELECTION

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



1 MENU Select **OPTION**.

2 ENTER Select **Language**.

3 ENTER Select **Menu Language**.

4 Select your desired language.
From this point on, the on-screen menus will be shown in the selected language.

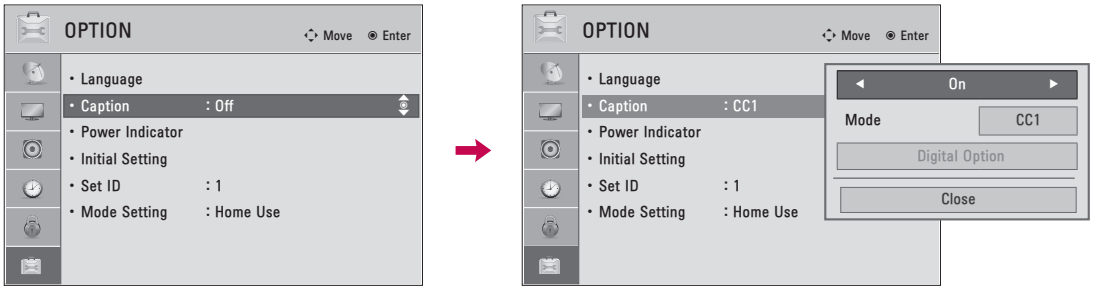
5 BACK Return to the previous menu.

EXIT Return to TV viewing.

CAPTION MODE

Analog Broadcasting System Captions

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



1 MENU Select **OPTION**.

2 ENTER Select **Caption**.

3 ENTER Select **On**.

4 Select **CC1-4** or **Text1-4**.

5 BACK Return to the previous menu.

EXIT Return to TV viewing.

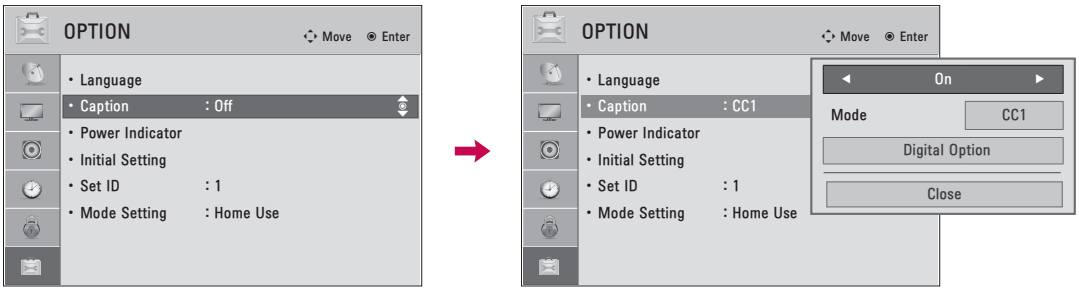
- When selecting **Off**, Sub-menus for Analog, DTV, and Digital Option become disabled.
- **Caption**

  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 in only available when **Caption** Mode is set **On**.



1 MENU Select **OPTION**.

2 ENTER Select **Caption**.

3 ENTER Select **On**.

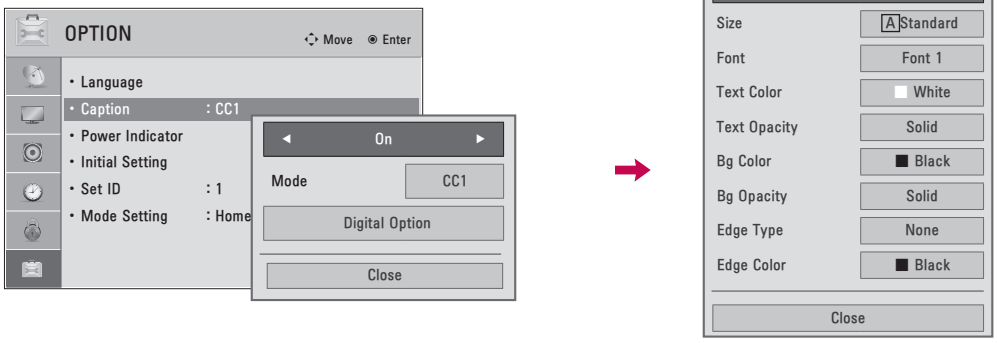
4 Select **CC1-4**, **Text1-4**, or **Service1 - 6**.

5 BACK Return to the previous menu.

EXIT Return to TV viewing.

Caption Option

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



1 MENU Select **OPTION**.

2 ENTER Select **Caption**.

3 ENTER Select **On**.

4 Select **Digital Option**.

5 ENTER 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 BACK Return to the previous menu.

EXIT Return to TV viewing.

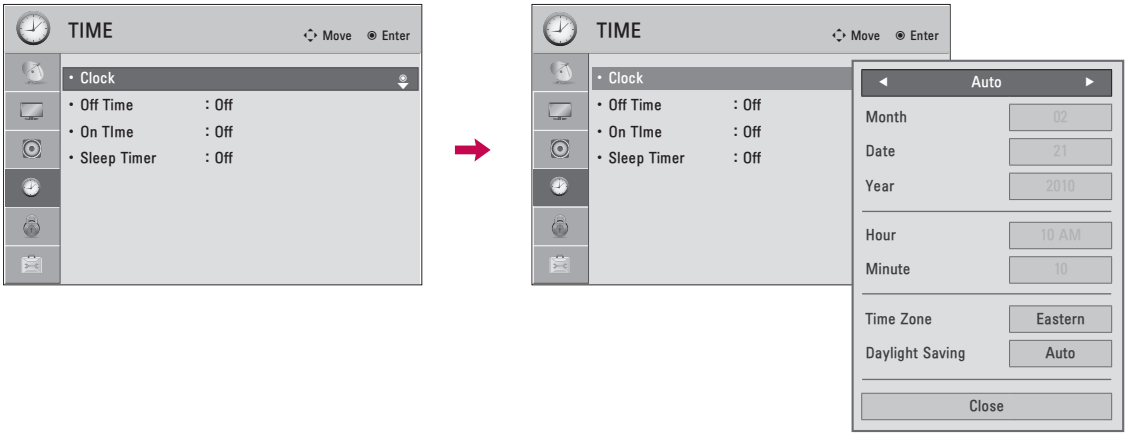
- **Size**: Set the word size.
- **Font**: Select a typeface for the text.
- **Text Color**: Choose a color for the text.
- **Text Opacity**: Specify the opacity for the text color.
- **Bg (Background) Color**: Select a background color.
- **Bg (Background) Opacity**: Select the opacity for the background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



1 MENU Select **TIME**.

2 ENTER Select **Clock**.

3 ENTER Select **Auto**.

4 Select your viewing area time zone.
USA: **Eastern**, **Central**, **Mountain**, **Pacific**, **Alaska**, or **Hawaii**.
Canada: **Eastern**, **Central**, **Mountain**, **Pacific**, **New Foundland**, or **Atlantic**.

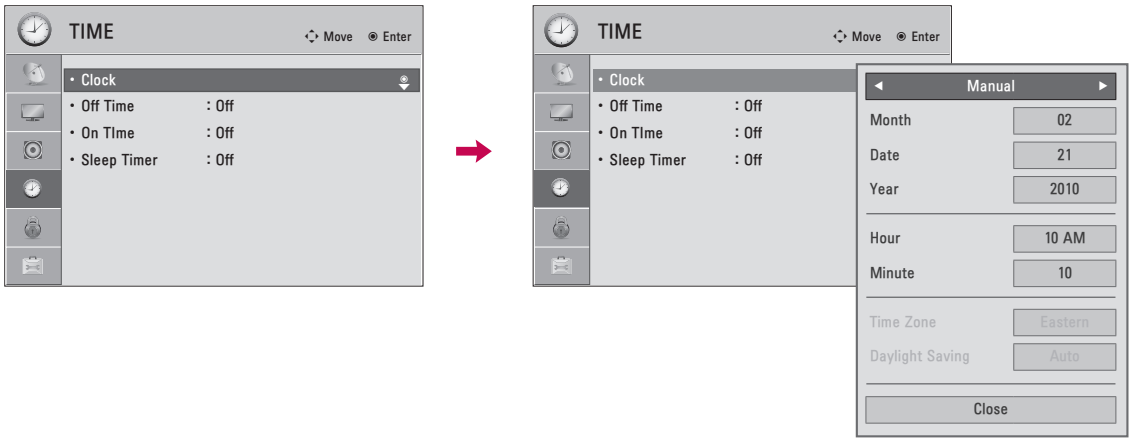
5 Select **Auto**, **Off**, or **On** (depending on whether or not your viewing area observes Daylight Saving time).

6 BACK Return to the previous menu.

EXIT Return to TV viewing.

Manual Clock Setup

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



1 MENU Select **TIME**.

2 ENTER Select **Clock**.

3 ENTER Select **Manual**.

4 Select the Year, Month, Date, Hour, or Minute option.

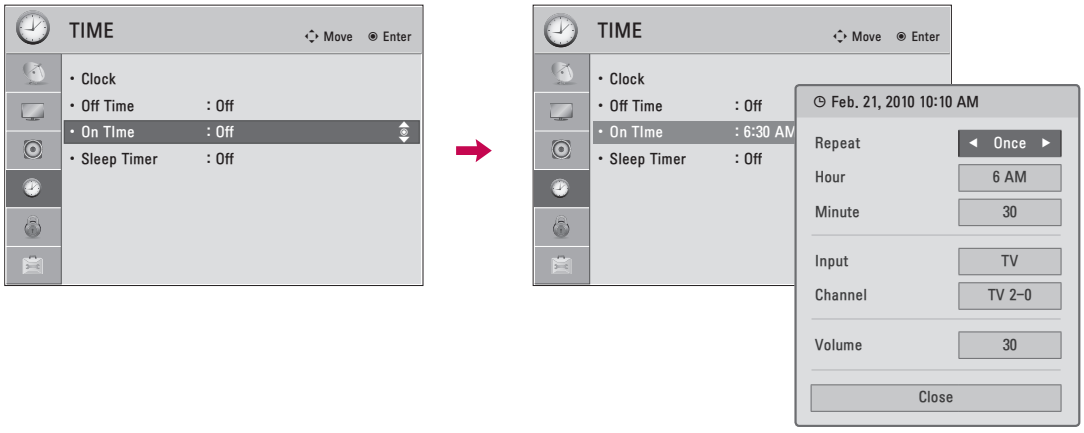
5 Set the Year, Month, Date, Hour, or Minute option.

6 BACK Return to the previous menu.

EXIT 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 MENU Select **TIME**.

2 ENTER Select **Off Time** or **On Time**.

3 ENTER Select **Repeat**.

4 Select **Off**, **Once**, **Daily**, **Mon.~Fri.**, **Mon.~Sat.**, **Sat.~ Sun.**, or **Sun.**.

5 Select and set Hour or Minute.

6 BACK Return to the previous menu.

EXIT Return to TV viewing.

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

1 Select **Input.**

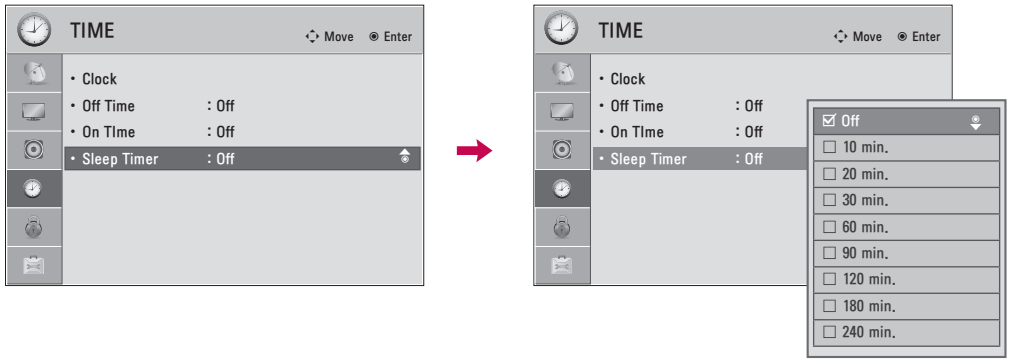
2 Select the desired input source.

3 When Selecting **TV**: set the channel at turn-on.

4 Adjust to sound level at turn-on.

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 MENU Select **TIME**.

2 ENTER Select **Sleep Timer**.

3 ENTER Make appropriate adjustments.

4 BACK Return to the previous menu.

EXIT Return to TV viewing.

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

PARENTAL CONTROL / RATINGS

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

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

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

V-Chip rating and categories

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

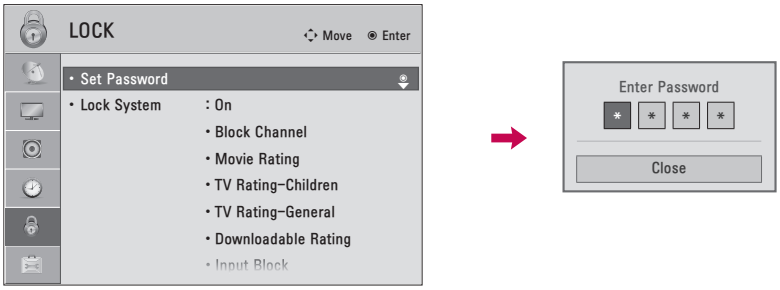
Ratings for Television programs including made-for-TV movies:

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

SET PASSWORD & LOCK SYSTEM

Setting up Your Password

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



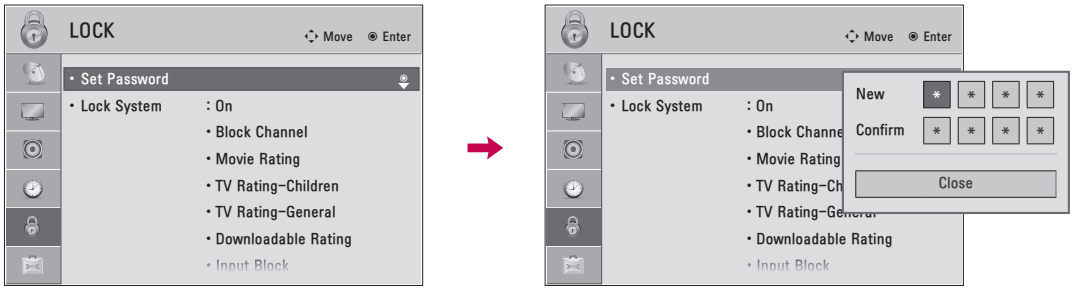
1 MENU ENTER Select **LOCK**.

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.

Set Password

Change the password by inputting a new password twice.



1 MENU ENTER Select **LOCK**.

2 Input the password.

3 Select **Set Password**.

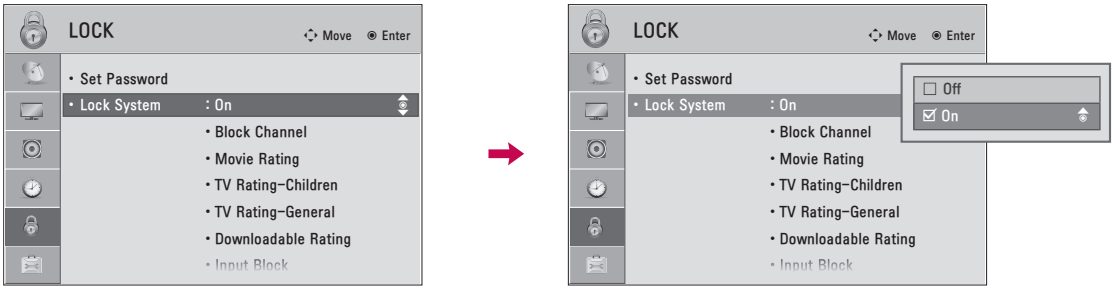
4 ENTER Choose any 4 digits for your new password.
As soon as the 4 digits are entered, re-enter the same 4 digits on the **Confirm**.

5 BACK Return to the previous menu.

EXIT Return to TV viewing.

Lock System

Enables or disables the blocking scheme you set up previously.



1 MENU ENTER Select **LOCK**.

2 Input the password.

3 Select **Lock System**.

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

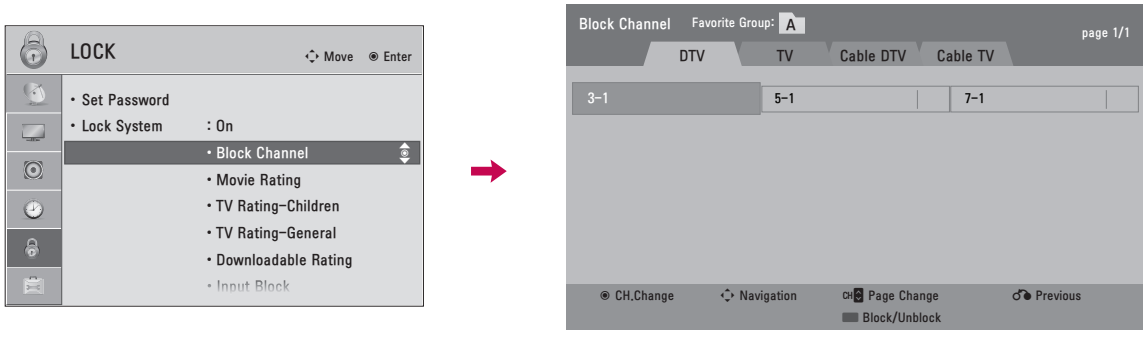
5 BACK Return to the previous menu.

EXIT Return to TV viewing.

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

CHANNEL BLOCKING

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



1 MENU, ENTER — Select **LOCK**.

2 — Input the password.

3 — Select **Block Channel**.

4 ENTER — Select a channel to block or unblock.

5 YELLOW — Block or unblock a channel.

6 BACK — Return to the previous menu.

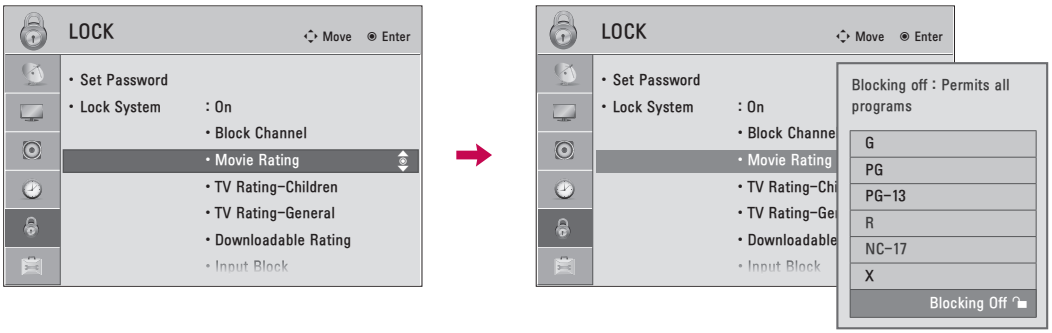
EXIT — Return to TV viewing.

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

MOVIE & TV RATING

Movie Rating (MPAA)- For USA

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



1 MENU, ENTER — Select **LOCK**.

2 — Input the password.

3 — Select **Movie Rating**.

4 ENTER — Select **G**, **PG**, **PG-13**, **R**, **NC-17**, **X**, or **Blocking Off**.

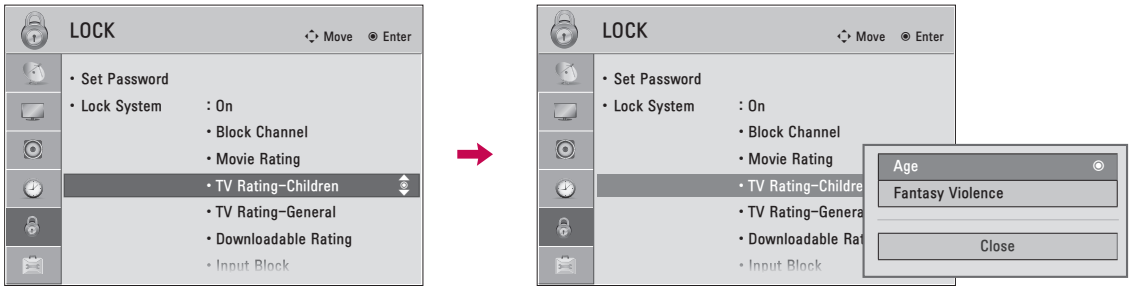
5 BACK — Return to the previous menu.

EXIT — 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.

TV Rating Children - For USA

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



1 MENU ENTER Select **LOCK**.

2 Input the password.

3 Select **TV Rating-Children**.

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

5 ENTER Select block options.

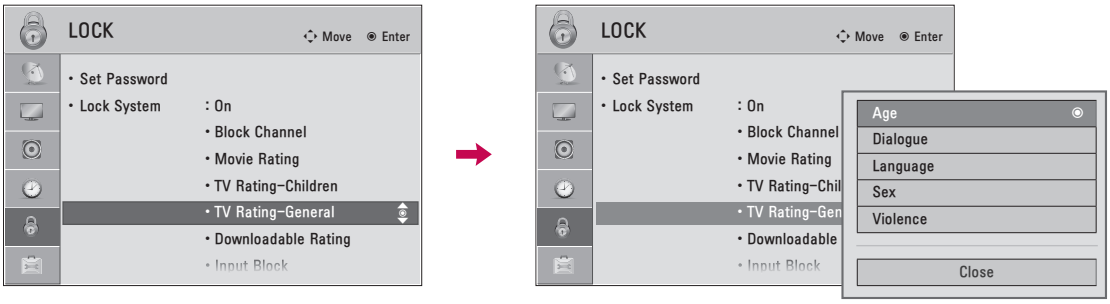
6 BACK Return to the previous menu.

EXIT Return to TV viewing.

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

TV Rating General - For USA

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



1 MENU ENTER Select **LOCK**.

2 Input the password.

3 Select **TV Rating-General**.

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

5 ENTER Select block options.

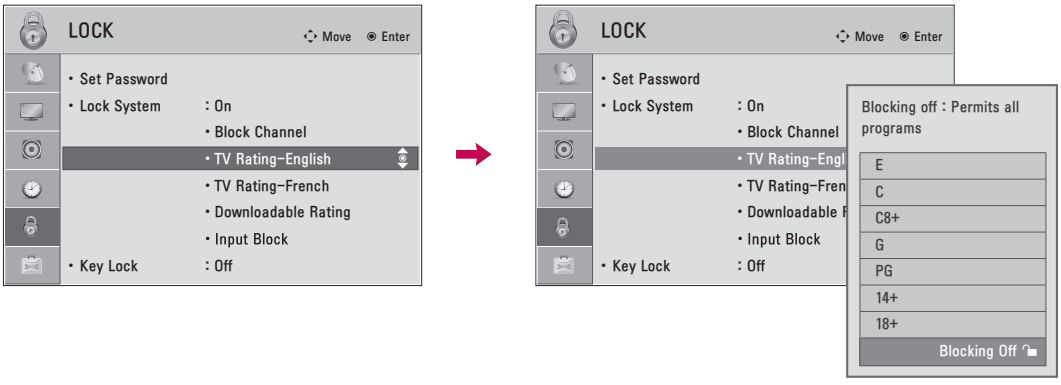
6 BACK Return to the previous menu.

EXIT 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).

TV Rating English - For CANADA

Selecting Canadian English rating system.



1 MENU ENTER Select **LOCK**.

2 Input the password.

3 Select **TV Rating-English**.

4 ENTER Select **E**, **C**, **C8+**, **G**, **PG**, **14+**, **18+**, or **Blocking Off.**

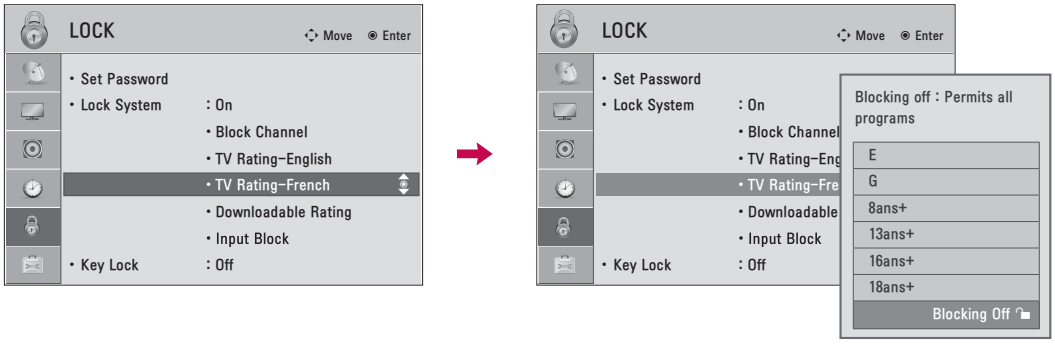
5 BACK Return to the previous menu.

EXIT Return to TV viewing.

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

TV Rating French - For CANADA

Selecting Canadian French rating system.



1 MENU ENTER Select **LOCK**.

2 Input the password.

3 Select **TV Rating-French**.

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

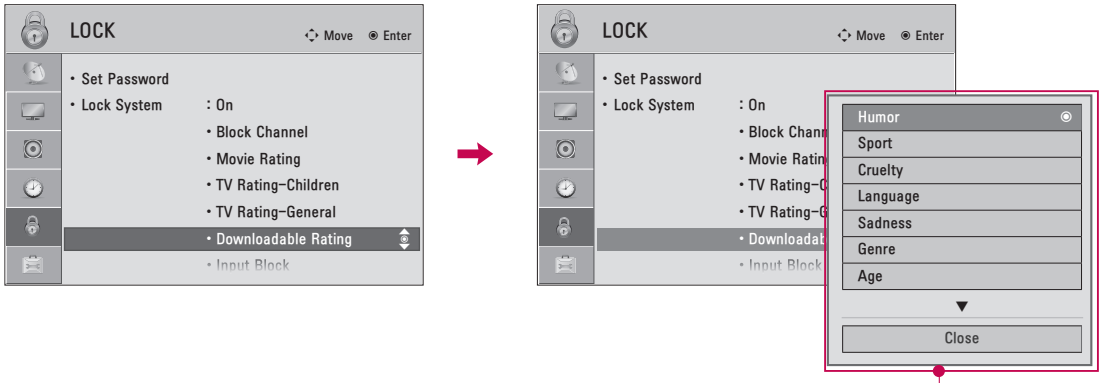
5 BACK Return to the previous menu.

EXIT Return to TV viewing.

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

DOWNLOADABLE RATING

This function is available only for digital channels.
This function operates only when TV has received Region5 Rating data.



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

1 MENU ENTER Select **LOCK**.

2 Input the password.

3 Select **Downloadable Rating**.

4 ENTER Select desired **Downloadable Rating** option.

5 ENTER Select desired option and block it.

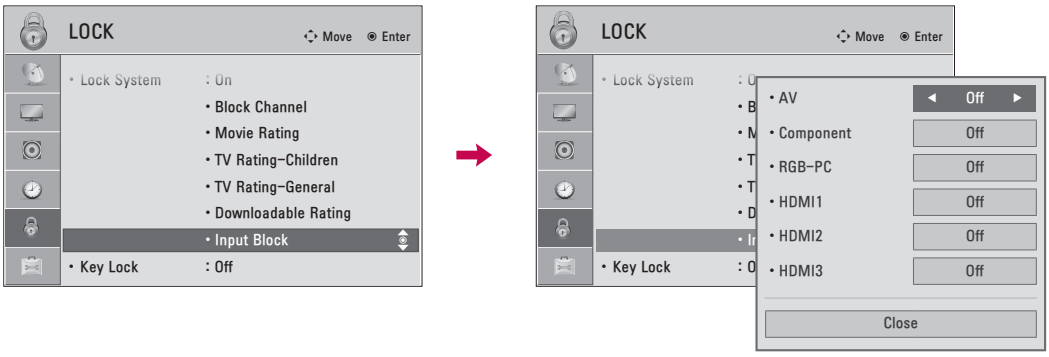
6 BACK Return to the previous menu.

EXIT 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 MENU ENTER Select **LOCK**.

2 Input the password.

3 Select **Input Block**.

4 ENTER Select input source.

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

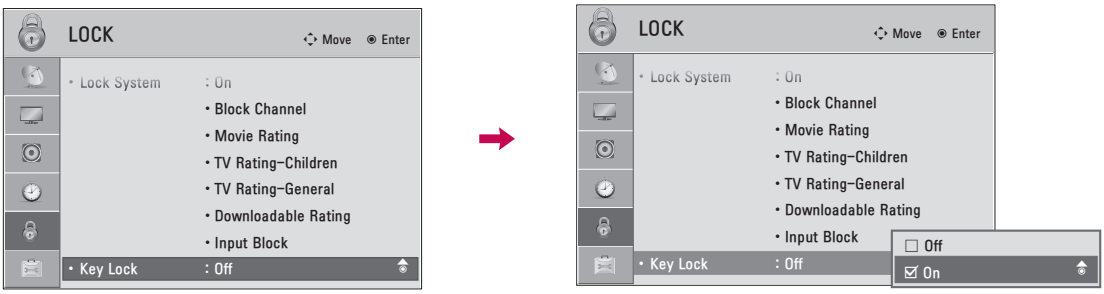
6 BACK Return to the previous menu.

EXIT Return to TV viewing.

KEY LOCK

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

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



1 MENU ENTER Select **LOCK**.

2 Input the password.

3 Select **LOCK**.

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

4 BACK Return to the previous menu.

EXIT Return to TV viewing.

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

APPENDIX

TROUBLESHOOTING

Abnormal Operation	
The remote control doesn't work	■ 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. *This feature is not available for all models.
TV turns off suddenly	■ 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	■ 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	■ 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	■ 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	■ Check for local interference such as an electrical appliance or power tool.
Poor reception on some channels	■ 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	■ Check antenna (Change the direction of the antenna).
No picture when connecting HDMI	■ 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	■ Adjust Balance in menu option.
Unusual sound from inside the product	■ 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	■ Check High Speed HDMI cable. ■ Check USB cable over version 2.0. ■ Use normal MP3 file. *This feature is not available for all models.

PC Mode Problems	
The signal is out of range	■ Adjust resolution, horizontal frequency, or vertical frequency on the PC. ■ Check the input source.
Vertical bar or stripe on background & Horizontal Noise & Incorrect position	■ Activate the Auto configure feature or adjust size, phase, or H/V position. (Option)
Screen color is unstable or single color	■ Check the signal cable. ■ Reinstall the PC video card.
When connecting the HDMI cable to the PC, there is no audio.	■ Check the manual for the video card in the PC to see if it supports HDMI audio and how to set it up properly.

Movie List Problems	
The file does not appear on the Movie List.	■ 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.	■ 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.	■ 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.	■ 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.

PRODUCT SPECIFICATIONS

MODELS		**19LE5300** (19LE5300-UE)	**22LE5300** (22LE5300-UE) **22LE5500** (22LE5500-UA)
Dimensions (Width x Height x Depth)	With stand	471.2 mm x 365.9 mm x 155.4 mm (18.5 inch x 14.4 inch x 6.1 inch)	542.9 mm x 407.1 mm x 155.4 mm (21.3 inch x 16.0 inch x 6.1 inch)
	Without stand	471.2 mm x 315.5 mm x 34.4 mm (18.5 inch x 12.4 inch x 1.3 inch)	542.9 mm x 357.6 mm x 34.4 mm (21.3 inch x 14.0 inch x 1.3 inch)
Weight	With stand	3.4 kg (7.4 lbs)	4.2 kg (9.2 lbs)
	Without stand	3.2 kg (7.0 lbs)	3.9 kg (8.5 lbs)

MODELS		**26LE5300** (26LE5300-UE) **26LE5500** (26LE5500-UA)
Dimensions (Width x Height x Depth)	With stand	652.0 mm x 480.8 mm x 191.4 mm (25.6 inch x 18.9 inch x 7.5 inch)
	Without stand	652.0 mm x 420.3 mm x 34.4 mm (25.6 inch x 16.5 inch x 1.3 inch)
Weight	With stand	6.1 kg (13.4 lbs)
	Without stand	5.1 kg (11.2 lbs)

Power Requirement		19LE5300: 24V ⎓, 1.6A 22LE5300: 24V ⎓, 1.7 A 22LE5500: 24V ⎓, 1.7 A 26LE5300: 24V ⎓, 1.8 A 26LE5500: 24V ⎓, 1.8 A
Adapter (DC Power)		In: AC100-240 V ~ 50/60 Hz Out: DC 24 V, 3.42 A
Television System		NTSC-M, ATSC, 64 & 256 QAM
Program Coverage		VHF 2-13, UHF 14-69, CATV 1-135, DTV 2-69, CADTV 1-135
External Antenna Impedance		75 Ω
Environment condition	Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
	Operating Humidity	Less than 80 %
	Storage Temperature	-20 °C to 60 °C (-4 °F to 140 °F)
	Storage Humidity	Less than 85 %

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

MODELS		**32LE5300** (32LE5300-UC)	**37LE5300** (37LE5300-UC)
Dimensions (Width x Height x Depth)	With stand	784.6 mm x 558.1 mm x 221.0 mm (30.8 inch x 21.9 inch x 8.7 inch)	905.0 mm x 630.0 mm x 270.0 mm (35.6 inch x 24.8 inch x 10.6 inch)
	Without stand	784.6 mm x 499.5 mm x 39.9 mm (30.8 inch x 19.6 inch x 1.5 inch)	905.0 mm x 568.0 mm x 39.9 mm (35.6 inch x 22.3 inch x 1.5 inch)
Weight	With stand	12.4 kg (27.3 lbs)	15.3 kg (33.7 lbs)
	Without stand	10.5 kg (23.1 lbs)	12.8 kg (28.2 lbs)

MODELS		**42LE5300** (42LE5300-UC)	**47LE5300** (47LE5300-UC)
Dimensions (Width x Height x Depth)	With stand	1016.0 mm x 692.0 mm x 270.0 mm (40.0 inch x 27.2 inch x 10.6 inch)	1126.6 mm x 757.9 mm x 284.4 mm (44.3 inch x 29.8 inch x 11.1 inch)
	Without stand	1016.0 mm x 630.0 mm x 29.3 mm (40.0 inch x 24.8 inch x 1.1 inch)	1126.6 mm x 692.0 mm x 29.3 mm (44.3 inch x 27.2 inch x 1.1 inch)
Weight	With stand	19.2 kg (42.3 lbs)	22.6 kg (49.8 lbs)
	Without stand	16.7 kg (36.8 lbs)	19.6 kg (43.2 lbs)

MODELS		**55LE5300** (55LE5300-UC)
Dimensions (Width x Height x Depth)	With stand	1306.0 mm x 867.0 mm x 345.0 mm (51.4 inch x 34.1 inch x 13.5 inch)
	Without stand	1306.0 mm x 797.0 mm x 30.7 mm (51.4 inch x 31.3inch x 1.2 inch)
Weight	With stand	34.05 kg (75.0 lbs)
	Without stand	28.8 kg (63.4 lbs)

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

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APPENDIX

MODELS		**42LE7300** (42LE7300-UA)	**47LE7300** (47LE7300-UA)
Dimensions (Width x Height x Depth)	With stand	1009.2 mm x 694.5 mm x 286.5 mm (39.7 inch x 27.3 inch x 11.2 inch)	1119.6 mm x 757.1 mm x 286.5 mm (44.0 inch x 29.8 inch x 11.2 inch)
	Without stand	1009.2 mm x 629.7 mm x 29.3 mm (39.7 inch x 24.7 inch x 1.1 inch)	1119.6 mm x 691.3 mm x 29.3 mm (44.0 inch x 27.2 inch x 1.1 inch)
Weight	With stand	25.5 kg (56.2 lbs)	29.7 kg (65.4 lbs)
	Without stand	21.0 kg (46.2 lbs)	25.2 kg (55.5 lbs)

MODELS		**55LE7300** (55LE7300-UA)
Dimensions (Width x Height x Depth)	With stand	1305.2 mm x 874.9 mm x 320.2 mm (51.3 inch x 34.4 inch x 12.6 inch)
	Without stand	1305.2 mm x 799.4 mm x 32.4 mm (51.3 inch x 31.4 inch x 1.2 inch)
Weight	With stand	44.5 kg (98.1 lbs)
	Without stand	37.1 kg (81.7 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.

MODEL		**32LD420** (32LD420-UA)
Dimensions (Width x Height x Depth)	With stand	805.0 mm x 583.0 mm x 224.0 mm (31.6 inch x 22.9 inch x 8.8 inch)
	Without stand	805.0 mm x 531.0 mm x 79.9 mm (31.6 inch x 20.9 inch x 3.1 inch)
Weight	With stand	10.8 kg (23.8 lbs)
	Without stand	9.7 kg (21.3 lbs)

MODELS		**42LD420** (42LD420-UA)	**47LD420** (47LD420-UA)
Dimensions (Width x Height x Depth)	With stand	1028.0 mm x 715.4 mm x 297.0 mm (40.4 inch x 28.1 inch x 11.6 inch)	1140.6 mm x 784.8 mm x 337.4 mm (44.9 inch x 30.8 inch x 13.2 inch)
	Without stand	1028.0 mm x 658.6 mm x 87.8 mm (40.4 inch x 25.9 inch x 3.4 inch)	1140.6 mm x 722.9 mm x 99.0 mm (44.9 inch x 28.4 inch x 3.8 inch)
Weight	With stand	16.6 kg (36.5 lbs)	21.6 kg (47.6 lbs)
	Without stand	14.8 kg (32.6 lbs)	19.0 kg (41.8 lbs)

MODELS		**32LD450** (32LD450-UA)	**37LD450** (37LD450-UA), **37LD450C** (37LD450C-UA)
Dimensions (Width x Height x Depth)	With stand	799.0 mm x 555.0 mm x 207.0 mm (31.4 inch x 21.8 inch x 8.1 inch)	916.0 mm x 625.0 mm x 261.0 mm (36.0 inch x 24.6 inch x 10.2 inch)
	Without stand	799.0 mm x 506.0 mm x 73.5 mm (31.4 inch x 19.9 inch x 2.8 inch)	916.0 mm x 575.0 mm x 77.4 mm (36.0 inch x 22.6 inch x 3.0 inch)
Weight	With stand	9.1 kg (20.0 lbs)	12.5 kg (27.5 lbs)
	Without stand	8.1 kg (17.8 lbs)	10.8 kg (23.8 lbs)

MODELS		**42LD450** (42LD450-UA), **42LD450C** (42LD450C-UA)	**47LD450** (47LD450-UA), **47LD450C** (47LD450C-UA)
Dimensions (Width x Height x Depth)	With stand	1023.0 mm x 685.0 mm x 261.0 mm (40.2 inch x 26.9 inch x 10.2 inch)	1136.0 mm x 757.0 mm x 270.0 mm (44.7 inch x 29.8 inch x 10.6 inch)
	Without stand	1023.0 mm x 635.0 mm x 76.6 mm (40.2 inch x 25.0 inch x 3.0 inch)	1136.0 mm x 698.0 mm x 76.5 mm (44.7 inch x 27.4 inch x 3.0 inch)
Weight	With stand	15.1 kg (33.2 lbs)	19.5 kg (42.9 lbs)
	Without stand	13.5 kg (29.7 lbs)	17.5 kg (38.5 lbs)

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

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

APPENDIX

MODELS		**32LD520** (32LD520-UA)	**42LD520** (42LD520-UA)
Dimensions (Width x Height x Depth)	With stand	815.0 mm x 585.6 mm x 210.9 mm (32.0 inch x 23.0 inch x 8.3 inch)	1052.2 mm x 720.1 mm x 270.6 mm (41.4 inch x 28.3 inch x 10.6 inch)
	Without stand	815.0 mm x 529.6 mm x 82.0 mm (32.0 inch x 20.8 inch x 3.2 inch)	1052.2 mm x 657.3 mm x 90.8 mm (41.4 inch x 25.8 inch x 3.5 inch)
Weight	With stand	12.6 kg (27.7 lbs)	19.0 kg (41.8 lbs)
	Without stand	11.4 kg (25.1 lbs)	17.2 kg (37.9 lbs)

MODELS		**47LD520** (47LD520-UA)	**55LD520** (55LD520-UA), **55LD520C** (55LD520C-UA)
Dimensions (Width x Height x Depth)	With stand	1173.4 mm x 791.4 mm x 319.0 mm (46.1 inch x 31.1 inch x 12.5 inch)	1357.0 mm x 901.0 mm x 423.0 mm (53.4 inch x 35.4 inch x 16.6 inch)
	Without stand	1173.4 mm x 723.4 mm x 100.8 mm (46.1 inch x 28.4 inch x 3.9 inch)	1357.0 mm x 835.4 mm x 109.6 mm (53.4 inch x 32.8 inch x 4.3 inch)
Weight	With stand	23.6 kg (52.0 lbs)	36.4 kg (80.2 lbs)
	Without stand	20.8 kg (45.8 lbs)	32.9 kg (72.5 lbs)

MODELS		**42LD630** (42LD630-UC)	**47LD630** (47LD630-UC)
Dimensions (Width x Height x Depth)	With stand	1024.0 mm x 685.0 mm x 261.0 mm (40.3 inch x 26.9 inch x 10.2 inch)	1137.0 mm x 758.0 mm x 270.0 mm (44.7 inch x 29.8 inch x 10.6 inch)
	Without stand	1024.0 mm x 621.0 mm x 76.8 mm (40.3 inch x 24.4 inch x 3.0 inch)	1137.0 mm x 685.0 mm x 76.8 mm (44.7 inch x 26.9 inch x 3.0 inch)
Weight	With stand	15.5 kg (34.1 lbs)	20.3 kg (44.7 lbs)
	Without stand	13.9 kg (30.6 lbs)	18.3 kg (40.3 lbs)

MODELS		**55LD630** (55LD630-UC)
Dimensions (Width x Height x Depth)	With stand	1329.0 mm x 872.0 mm x 330.0 mm (52.3 inch x 34.3 inch x 12.9 inch)
	Without stand	1329.0 mm x 796.0 mm x 96.5 mm (52.3 inch x 31.3 inch x 3.7 inch)
Weight	With stand	33.0 kg (72.7 lbs)
	Without stand	29.8 kg (65.6 lbs)

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

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

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
06	›	Remote Control Button			(TV Input Selection)
07	‹	Remote Control Button	C4	POWER ON	Discrete IR Code
08	⏻	Remote Control Button			(Only Power On)
		(Power On/Off)	C5	POWER OFF	Discrete IR Code
09	MUTE	Remote Control Button			(Only Power Off)
0B	INPUT	Remote Control Button	5A	AV or AV1	Discrete IR Code
0F	TV	Remote Control Button			(AV1 Input Selection)
10-19	Number 0-9	Remote Control Button	D0	AV2	Discrete IR Code
1A	FLASHBK	Remote Control Button			(AV2 Input Selection)
1E	FAV/MARK	Remote Control Button	BF	COMPONENT	Discrete IR Code
28	BACK	Remote Control Button			(Component Input Selection)
30	AV MODE	Remote Control Button	D5	RGB-PC	Discrete IR Code
40	∧	Remote Control Button			(RGB-PC Input Selection)
41	∨	Remote Control Button	CE	HDMI1	Discrete IR Code
43	MENU	Remote Control Button			(HDMI1 Input Selection)
44	ENTER	Remote Control Button	CC	HDMI2	Discrete IR Code
45	Q.MENU	Remote Control Button			(HDMI2 Input Selection)
4C	- (Dash)/LIST	Remote Control Button	E9	HDMI3	Discrete IR Code
5B	EXIT	Remote Control Button			(HDMI3 Input Selection)
61	BLUE	Remote Control Button	DA	HDMI4	Discrete IR Code
63	YELLOW	Remote Control Button			(HDMI4 Input Selection)
71	GREEN	Remote Control Button	76	Ratio 4:3	Discrete IR Code
72	RED	Remote Control Button			(Only 4:3 Mode)
79	RATIO	Remote Control Button	77	Ratio 16:9	Discrete IR Code
7E	SIMPLINK	Remote Control Button			(Only 16:9 Mode)
8E	▶▶	Remote Control Button	AF	Ratio Zoom	Discrete IR Code
8F	◀◀	Remote Control Button			(Only Zoom Mode)
95	ENERGY SAVING	Remote Control Button			
AA	INFO	Remote Control Button			

■ Use this feature depending on your models.

EXTERNAL CONTROL THROUGH RS-232C

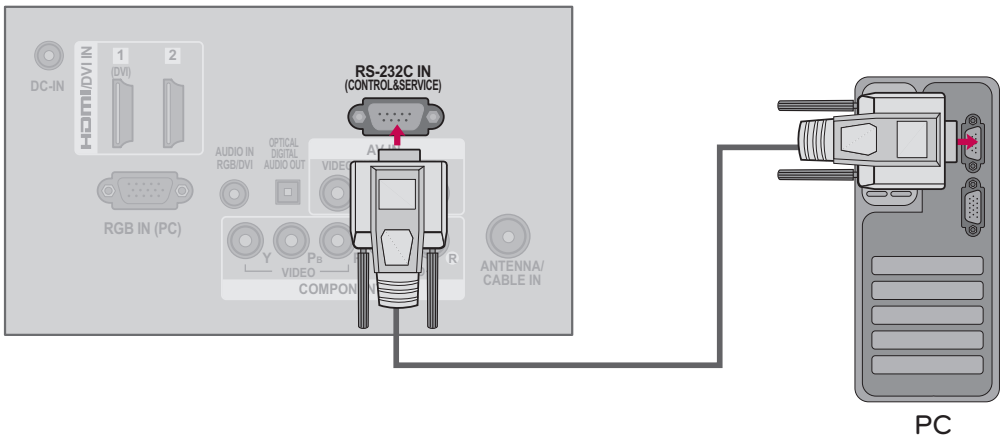
The RS-232C port allows you connect the RS-232C input jack to an external control device (such as a computer or an A/V control system) to control the TV's functions externally.

- Note: RS-232C on this unit is intended to be used with third party RS-232C control hardware and software.

The instructions below are provided to help with programming software or to test functionality using telenet software.

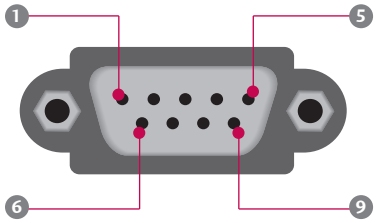
RS-232C Setup

i.e)



Type of Connector; D-Sub 9-Pin Male

No.	Pin Name
1	No connection
2	RXD (Receive data)
3	TXD (Transmit data)
4	DTR (DTE side ready)
5	GND
6	DSR (DCE side ready)
7	RTS (Ready to send)
8	CTS (Clear to send)
9	No Connection



Communication Parameters

- Baud rate : 9600 bps (UART)
- Data length : 8 bits
- Parity : None
- Stop bit : 1 bit
- Communication code : ASCII code
- Use a crossed (reverse) cable.

NOTE

▶ This product has command echo back in the RS-232C Command.

RS-232C Configurations

7-Wire Configuration
(Serial female-female NULL modem cable)

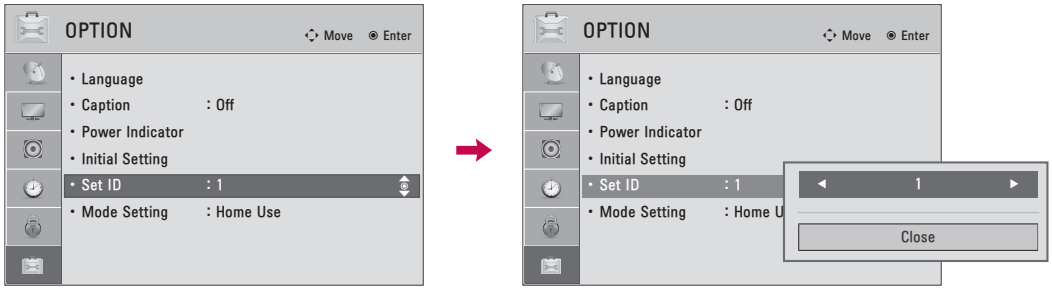
PC		TV	
RXD	2 ———	3	TXD
TXD	3 ———	2	RXD
GND	5 ———	5	GND
DTR	4 ———	6	DSR
DSR	6 ———	4	DTR
RTS	7 ———	8	CTS
CTS	8 ———	7	RTS
	D-Sub 9	D-Sub 9	

3-Wire Configurations
(Not standard)

PC		TV	
RXD	2 ———	3	TXD
TXD	3 ———	2	RXD
GND	5 ———	5	GND
DTR	4	6	DTR
DSR	6	4	DSR
RTS	7	7	RTS
CTS	8	8	CTS
	D-Sub 9	D-Sub 9	

Set ID

Use this function to specify a TV ID number.
Refer to 'Real Data Mapping'.



1 MENU — Select **OPTION**.

2 ENTER — Select **Set ID**.

3 ENTER — Choose the desired TV ID number. The adjustment range of Set ID is 1~99.

4 BACK — Return to the previous menu.

EXIT — Return to TV viewing.

■ Real data mapping

0	Step 0
⋮	
A	Step 10 (Set ID 10)
⋮	
F	Step 15 (Set ID 15)
10	Step 16 (Set ID 16)
⋮	
63	Step 99 (Set ID 99)
64	Step 100

APPENDIX

Command Reference List

	COMMAND1	COMMAND2	DATA (Hexadecimal)
01. Power	k	a	00 - 01
02. Input Select	x	b	▶ P.155
03. Aspect Ratio	k	c	▶ P.155
04. Screen Mute	k	d	00 - 01
05. Volume Mute	k	e	00 - 01
06. Volume Control	k	f	00 - 64
07. Contrast	k	g	00 - 64
08. Brightness	k	h	00 - 64
09. Color	k	i	00 - 64
10. Tint	k	j	00 - 64
11. Sharpness	k	k	00 - 64
12. OSD Select	k	l	00 - 01
13. Remote Control Lock Mode	k	m	00 - 01
14. Treble	k	r	00 - 64
15. Bass	k	s	00 - 64
16. Balance	k	t	00 - 64
17. Color Temperature	x	u	00 - 64
18. Energy Saving	j	q	▶ P.156
19. Auto Configuration	j	u	▶ P.156
21. Channel Add/ Del	m	b	00 - 01
22. Key	m	c	▶ P.157
23. Backlight	m	g	00 - 64

	COMMAND1	COMMAND2	DATA00 (Hexadecimal)	DATA01 (Hexadecimal)
20. Channel Tuning	m	a	physical program high	major program low
	DATA02 (Hexadecimal)	DATA03 (Hexadecimal)	DATA04 (Hexadecimal)	DATA05 (Hexadecimal)
	major low	minor high	minor low	attribute

Transmission / Receiving Protocol

Transmission

[Command1][Command2][ ][Set ID][ ][Data][Cr]

[Command 1] : First command to control the set. (j, k, m or x)

[Command 2] : Second command to control the set.

[Set ID] : You can adjust the set ID to choose desired TV ID number in Setup menu. Adjustment range is 1-99. When selecting Set ID '0', every connected the TV is controlled. Set ID is indicated as decimal (1-99) on menu and as Hexa decimal (0x0 - 0x63) on transmission /receiving protocol.

[DATA] : To transmit the command data.
Transmit the 'FF' data to read status of command.

[Cr] : Carriage Return
ASCII code '0x0D'

[ ] : ASCII code 'space (0x20)'

* In this model, TV will not send the status during the standby mode.

OK Acknowledgement

[Command2][ ][Set ID][ ][OK][Data][x]

The TV transmits ACK (acknowledgement) based on this format when receiving normal data. At this time, if the data is data read mode, it indicates present status data. If the data is data write mode, it returns the data of the PC computer.

* In this model, TV will not send the status during the standby mode.

* Data Format

[Command 2] : Use as command.

[Set ID] : Use the small character, if set ID is 10, it will send the '0', 'a'.

[DATA] : Use the small character, if data is 0 x ab, it will send the 'a', 'b'.

[OK] : Use the large character.

Error Acknowledgement

[Command2][ ][Set ID][ ][NG][Data][x]

The TV transmits ACK (acknowledgement) based on this format when receiving abnormal data from non-viable functions or communication errors.

Data1: Illegal Code

Data2: Not supported function

Data3: Wait more time

* In this model, TV will not send the status during the standby mode.

* Data Format

[Command 2] : Use as command.

[Set ID] : Use the small character, if set ID is 10, it will send the '0', 'a'.

[DATA] : Use the small character, if data is 0 x ab, it will send the 'a', 'b'.

[NG] : Use the large character

01. Power (Command: k a)

To control Power On/Off of the TV.

Transmission [k][a][ ][Set ID][ ][Data][Cr]

Data 00: Power Off Data 01: Power On

Acknowledgement [a][ ][Set ID][ ][OK/NG][Data][x]

* In a like manner, if other functions transmit 'FF' data based on this format, Acknowledgement data feedback presents status about each function.
* Note: In this model, TV will send the Acknowledge after power on processing completion.

There might be a time delay between command and acknowledge.

02. Input Select (Command: x b)

To select input source for TV.

Transmission [x][b][ ][Set ID][ ][Data][Cr]

Data 00: DTV (Antenna)

Data 10: Analog (Antenna) Data 11: Analog (Cable)

Data 20: AV or AV1 Data 21: AV 2

Data 40: Component

Data 60: RGB-PC Data 90: HDMI1

Data 91: HDMI2 Data 92: HDMI3

Data 93: HDMI4

Acknowledgement [b][ ][Set ID][ ][OK/NG][Data][x]

* Use the feature depending on your model.

03. Aspect Ratio (Command: k c)

To adjust the screen format.

Transmission [k][c][ ][Set ID][ ][Data][Cr]

Data 01: 4:3 Data 09: Just scan

Data 02: 16:9 Data 10: Cinema Zoom1

Data 04: Zoom ⋮

Data 05: Zoom2 Data 1F: Cinema Zoom16

Data 06: Set by program

Acknowledgement [c][ ][Set ID][ ][OK/NG][Data][x]

04. Screen Mute (Command: k d)

To select screen mute on/off.

Transmission [k][d][ ][Set ID][ ][Data][Cr]

Data 00: Screen mute off (Picture on), Video-out Mute off

Data 01: Screen mute on (Picture off)

Data 10: Video-out Mute on

Acknowledgement [d][ ][Set ID][ ][OK/NG][Data][x]

* In case of Video-out Mute on only, TV will display On Screen Display (OSD). But, in case of screen mute on, TV will not display On Screen Display (OSD).

05. Volume Mute (Command: k e)

To control volume mute on/off.

You can also adjust mute using the MUTE button on remote control.

Transmission [k][e][ ][Set ID][ ][Data][Cr]

Data 00: Volume mute on (Volume off)

Data 01: Volume mute off (Volume on)

Acknowledgement [e][ ][Set ID][ ][OK/NG][Data][x]

06. Volume Control (Command: k f)

To adjust volume.

You can also adjust volume with the volume buttons on remote control.

Transmission [k][f][ ][Set ID][ ][Data][Cr]

Data Min: 00 - Max: 64 (*transmit by Hexadecimal code)

*Refer to 'Real data mapping'.

Acknowledgement [f][ ][Set ID][ ][OK/NG][Data][x]

07. Contrast (Command: k g)

To adjust screen contrast.

You can also adjust contrast in the PICTURE menu.

Transmission [k][g][ ][Set ID][ ][Data][Cr]

Data Min: 00 - Max: 64 (*transmit by Hexadecimal code)

*Refer to 'Real data mapping'.

Acknowledgement [g][ ][Set ID][ ][OK/NG][Data][x]

08. Brightness (Command: k h)

To adjust screen brightness.

You can also adjust brightness in the PICTURE menu.

Transmission [k][h][ ][Set ID][ ][Data][Cr]

Data Min: 00 - Max: 64 (*transmit by Hexadecimal code)

*Refer to 'Real data mapping'.

Acknowledgement [h][ ][Set ID][ ][OK/NG][Data][x]

09. Color (Command: k i)

To adjust screen color.

You can also adjust color in the PICTURE menu.

Transmission [k][i][ ][Set ID][ ][Data][Cr]

Data Min: 00 - Max: 64 (*transmit by Hexadecimal code)

*Refer to 'Real data mapping'.

Acknowledgement [i][ ][Set ID][ ][OK/NG][Data][x]

10. Tint (Command: k j)

To adjust screen tint.

You can also adjust tint in the PICTURE menu.

Transmission [k][j][ ][Set ID][ ][Data][Cr]

Data Red: 00 - Green: 64 (*transmit by Hexadecimal code)

*Refer to 'Real data mapping'.

Acknowledgement [j][ ][Set ID][ ][OK/NG][Data][x]

11. Sharpness (Command: k k)

To adjust screen sharpness.
You can also adjust sharpness in the Picture menu.

Transmission [k][k][ ][Set ID][ ][Data][Cr]

Data Min: 00 - Max: 64 (*transmit by Hexadecimal code)
*Refer to 'Real data mapping'.

Acknowledgement [k][ ][Set ID][ ][OK/NG][Data][x]

12. OSD Select (Command: k l)

To select OSD (On Screen Display) on/off.

Transmission [k][l][ ][Set ID][ ][Data][Cr]

Data 00: OSD off Data 01: OSD on

Acknowledgement [l][ ][Set ID][ ][OK/NG][Data][x]

13. Remote Control Lock Mode (Command: k m)

To lock the remote control and the front panel controls on the set.

Transmission [k][m][ ][Set ID][ ][Data][Cr]

Data 00: Lock off Data 01: Lock on

Acknowledgement [m][ ][Set ID][ ][OK/NG][Data][x]

If you're not using the remote control and front panel controls on the TV, use this mode. When main power is on/off, remote control lock is released.
If Key Lock is on in the standby mode, TV will not turn on by POWER button of remote control and on the TV.

14. Treble (Command: k r)

To adjust treble.
You can also adjust treble in the Audio menu.

Transmission [k][r][ ][Set ID][ ][Data][Cr]

Data Min: 00 - Max: 64 (*transmit by Hexadecimal code)
*Refer to 'Real data mapping'.

Acknowledgement [r][ ][Set ID][ ][OK/NG][Data][x]

15. Bass (Command: k s)

To adjust bass.
You can also adjust bass in the Audio menu.

Transmission [k][s][ ][Set ID][ ][Data][Cr]

Data Min: 00 - Max: 64 (*transmit by Hexadecimal code)

*Refer to 'Real data mapping'.

Acknowledgement [s][ ][Set ID][ ][OK/NG][Data][x]

16. Balance (Command: k t)

To adjust balance.
You can also adjust balance in the Audio menu.

Transmission [k][t][ ][Set ID][ ][Data][Cr]

Data Min: 00 - Max: 64 (*transmit by Hexadecimal code)
*Refer to 'Real data mapping'.

Acknowledgement [t][ ][Set ID][ ][OK/NG][Data][x]

17. Color Temperature (Command: x u)

To adjust color temperature.
You can also adjust color temperature in the Picture menu.

Transmission [x][u][ ][Set ID][ ][Data][Cr]

Data Min: 00 - Max: 64 (*transmit by Hexadecimal code)
*Refer to 'Real data mapping'.

Acknowledgement [u][ ][Set ID][ ][OK/NG][Data][x]

18. Energy Saving (Command: j q)

To control the energy saving function.

Transmission [j][q][ ][Set ID][ ][Data][Cr]

Data 00: Energy saving - off
01: Energy saving - Minimum
02: Energy saving - Medium
03: Energy saving - Maximum
04: Energy saving - Auto (depending on model)
05: Energy saving - Screen off

Acknowledgement [q][ ][Set ID][ ][OK/NG][Data][x]

19. Auto Configuration (Command: j u)

To adjust picture position and minimize image shaking automatically. Auto configuration only works in RGB-PC mode.

Transmission [j][u][ ][Set ID][ ][Data][Cr]

Data 01: To set

Acknowledgement [u][ ][Set ID][ ][OK/NG][Data][x]

20. Channel Tuning (Command: m a)

To tune channel to following physical/major/minor number.

Transmission [m][a][ ][Set ID][ ][Data00][ ][Data01]
[ ][Data02][ ][Data03][ ][Data04][ ][Data05][Cr]

Digital channels have a Physical, Major, and Minor channel number. The Physical number is the actual digital channel number, the Major is the number that the channel should be mapped to, and the Minor is the sub-channel. Since the ATSC tuner automatically maps the channel to the Major number, the Physical number is not required when sending a command.

Data 00: Physical Channel Number
NTSC air: 02 - 45, NTSC cable: 01, 0E - 7D
ATSC air: 01 - 45, ATSC cable: 01 - 87

Data 01 & 02: Major Channel Number

Data 01: High byte Data 02: Low byte

Two bytes are available for the Major and Minor, normally only the second byte is used.

Data 03 & 04: Minor Channel Number
Not needed for NTSC.

Data5:

7 Main/Sub Picture	6 Two/One Part Channel	5 Using Physical Channel	4 Reserved	3	2	1	0	Step
0 Main	0 Two	0 Use	x	0	0	0	0	NTSC Air
1 Sub	1 One	1 No Use	x	0	0	0	1	NTSC Cable
			x	0	0	1	0	ATSC Air
			x	0	0	1	1	ATSC Cable_std
			x	0	1	0	0	ATSC Cable_hrc
			x	0	1	0	1	ATSC Cable_irc
			x	0	1	1	0	ATSC cable_auto
			x	0	1	1	1	Reserved
			x	x	x	x	x	...
			x	1	1	1	1	Reserved

The table above lists the binary code which must be converted to Hexadecimal before sending. For example: The binary code to tune the sub source to an NTSC cable channel is "1000 0001", which translates to "81" in Hex.

* 7th bit : For which source do you want to change the channel.
* 6th bit: Use a two part or one part channel. Most cases just use 0 since it's ignored when using NTSC.
* 5th bit: Use 0 with NTSC since it can only use the physical channel number. Normally use 1 for ATSC since most times it doesn't matter what the physical number is.
* 4th bit: Set to 0.
* 3-0 bits: Choose signal type.

*Tune Command Examples:

1. Tune to the analog (NTSC) cable channel 35.
   Data 00 = Physical of 35 = 23
   Data 01 & 02 = No Major = 00 00
   Data 03 & 04 = No Minor = 00 00
   Data 05 = 0000 0001 in binary = 01
   Total = ma 00 23 00 00 00 00 01
2. Tune to the digital (ATSC) local channel 30-3.
   Data 00 = Don't know Physical = 00
   Data 01 & 02 = Major is 30 = 00 1E
   Data 03 & 04 = Minor is 3 = 00 03
   Data 05 = 0010 0010 in binary = 22
   Total = ma 00 00 00 1E 00 03 22

21. Channel Add/Del (Command: m b)

To add and delete the channels.

Transmission [m][b][ ][Set ID][ ][Data][Cr]

Data 00: Channel Delete Data 01: Channel Add

Acknowledgement [b][ ][Set ID][ ][OK/NG][Data][x]

22. Key (Command: m c)

To send IR remote control code.

Transmission [m][c][ ][Set ID][ ][Data][Cr]

See page 151.

Acknowledgement [c][ ][Set ID][ ][OK/NG][Data][x]

When TV is in the standby mode, TV will turn on by POWER button of remote control only.

23. Backlight (Command: m g)

To adjust screen backlight.

Transmission [m][g][ ][Set ID][ ][Data][Cr]

Data Min:00 ~ Max:64 (*transmit by Hexadecimal code)

*Refer to 'Real data mapping'.

Acknowledgement [g][ ][Set ID][ ][OK/NG][Data][x]

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

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SERIAL _____