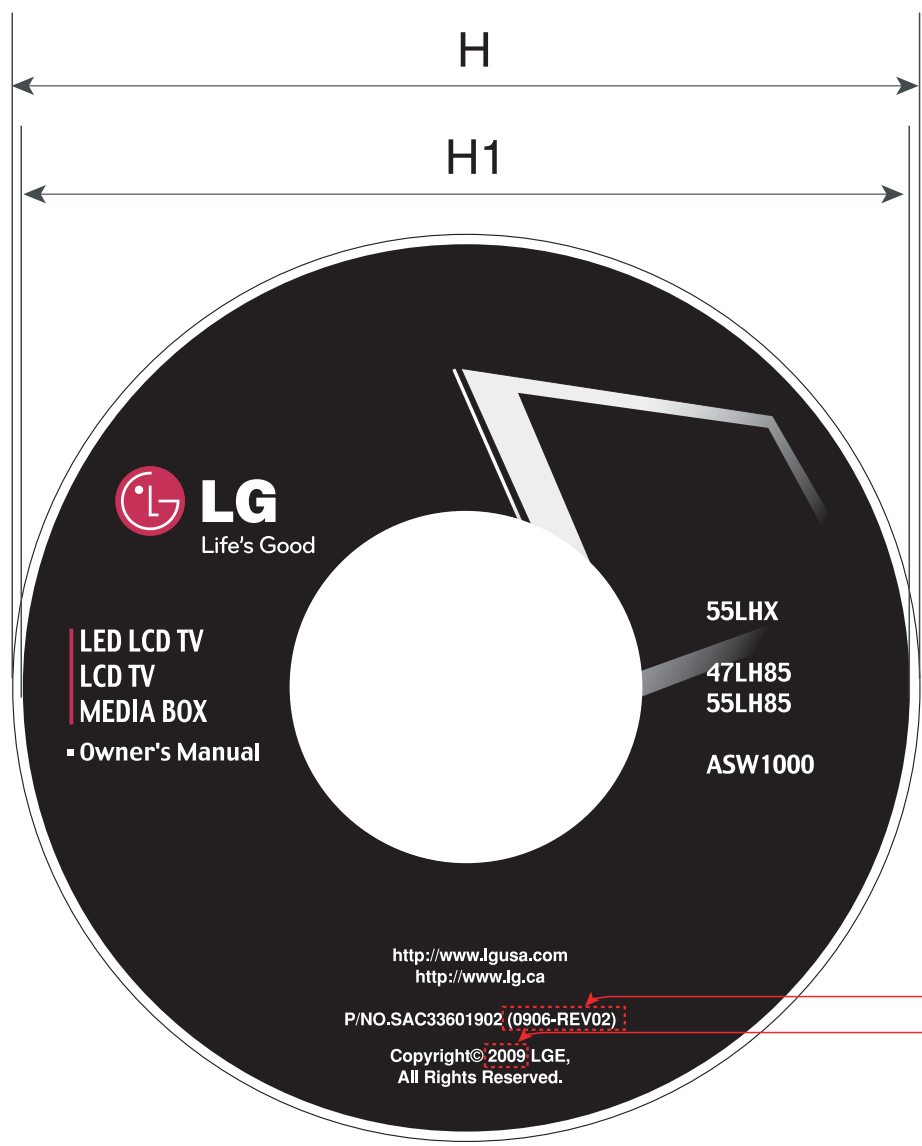


This drawing belongs to LGE. The person holding it secretly will be punished according to the relevant rules and the company standards.

***NOTE**
 *본 부품에 환경유해물질 (Pb, Cd, Hg, Cr6+, PBB, PBDE 등...)은 LG 규격의 기준치 이내이어야 하고 상세 내용은 ECO-SCM 운영기준 (LG(56)A-2524)을 따를 것. 특히, 하기내용을 필히 준수하고 관리할 것.
 (1) 부품 인정시험 및 양산초품 입고시 국가공인기관의 환경유해물질관련 시험성적서를 제출할 것.
 (2) 특히, 잉크내 Pb, Cd 등이 사용되거나 포함되지 않도록 할 것.
 *This part contain Eco-hazardous substances (Pb, Cd, Hg, Cr6+, PBB, PBDE, etc.) within LG standard level, Details should be followed Eco-SCM management standard(LG(56)-A-2524). Especially, Part should be followed and controlled the following specification.
 (1) Eco-hazardous substances test report should be submitted when Part certification test and First Mass Production.
 (2) Especially, Don't use or contain lead(Pb) and cadmium(Cd) in ink.

SIZE		Text Color	Background Color	Printing Method
H	H1			
Ø120	Ø117	Silver (Natural Color)	C, M, Y, K	OFF-SET



(a) YEAR	(b) Revision Code	Factory Model list (Market Model)
2009	(0901-REV00)	47LH85-UB (47LH85) 55LH85-UB (55LH85) 42LH90-UC (42LH90) 47LH90-UC (47LH90) 55LH90-UC (55LH90) 55LH95-UC (55LH95)
2009	(0905-REV01)	47LH85-UC (47LH85) 55LH85-UC (55LH85)
2009	(0906-REV02)	47LH85-UC (47LH85) 55LH85-UC (55LH85) 55LH95-UA (55LH95) ASW1000-UA (ASW1000)

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LG
Life's Good

LED LCD TV | MEDIA BOX OWNER'S MANUAL

LED LCD TV MODEL
55LHX

MEDIA BOX MODEL
ASW1000

LCD TV | MEDIA BOX OWNER'S MANUAL

LCD TV MODELS
47LH85
55LH85

MEDIA BOX MODEL
ASW1000

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

The model and serial number of the product is located on the back and one side of the product.

Record it below should you ever need service.

Model:

Serial:



This product qualifies for ENERGY STAR in the "factory default (Home Use)" setting.

Changing the factory default settings or enabling other features may increase power consumption that could exceed the limits necessary to qualify for ENERGY STAR.

1-800-243-0000 USA, Consumer User
1-888-865-3026 USA, Commercial User
1-888-542-2623 CANADA

LG Customer Information Center

P/NO : SAC33601902 (0906-REV02)

Media Box is not qualified for ENERGY STAR.

www.lgusa.com / www.lg.ca

WARNING / CAUTION



WARNING / CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



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



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



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

WARNING/CAUTION

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

NOTE TO CABLE/TV INSTALLER

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

WARNING / CAUTION

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

FCC NOTICE

Class B digital device

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

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

This device complies with part 15 of the FCC Rules.

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

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

CAUTION

Do not attempt to modify this product in any way without written authorization from LG Electronics. Unauthorized modification could void the user’s authority to operate this product.

SAFETY INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS

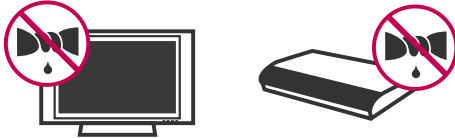
Read these instructions.
Keep these instructions.
Heed all warnings.
Follow all instructions.



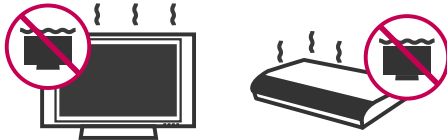
1 Do not use this apparatus near water.



2 Clean only with dry cloth.



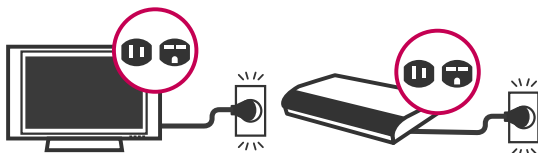
3 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.



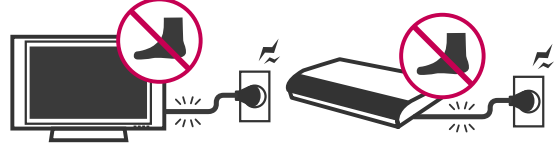
4 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



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



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



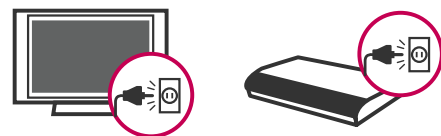
7 Only use attachments/accessories specified by the manufacturer.



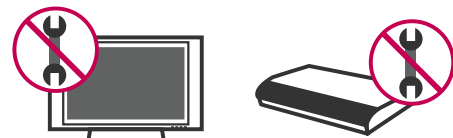
8 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



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



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



SAFETY INSTRUCTIONS

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

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

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

14 **CAUTION** concerning the Power Cord:

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



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



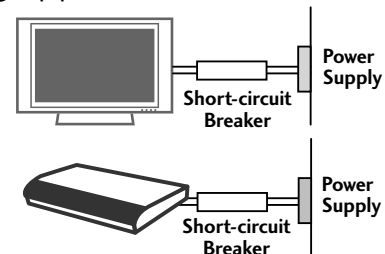
- 16 Do not expose to dripping or splashing and do not place objects filled with liquids, such as vases, cups, etc. on or over the apparatus (e.g. on shelves above the unit).



17 **GROUNDING**

Ensure that you connect the earth ground wire to prevent possible electric shock (i.e. this apparatus 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 apparatus by connecting it to telephone wires, lightning rods, or gas pipes.



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

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

20 ANTENNAS

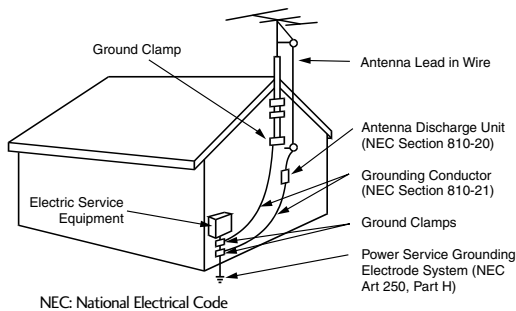
Outdoor antenna grounding

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



21 Cleaning

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

22 Moving

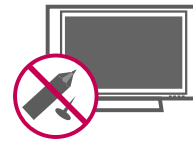
Make sure the product is turned off, unplugged and all cables have been removed. It may take 2 or more people to carry larger TVs. Do not press against or put stress on the front panel of the TV.

23 Ventilation

Install this apparatus 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 If you smell smoke or other odors coming from this apparatus or hear strange sounds, unplug the power cord contact an authorized service center.

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



26 Keep the product away from direct sunlight.

27 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.

28 FCC Radiation Exposure

In order to meet FCC RF Exposure requirements, this device must be installed in such a way that a distance of 20cm is always maintained between the device antenna and nearby persons.

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.



This TV contains the detailed calibrations necessary for professional certification by the Imaging Science Foundation. The resulting ISF “day” and “night” modes will then be accessible by the user to experience the best their LG HDTV has to offer.

Sophisticated and detailed calibrations can be made through the ISFccc mode.

Detailed calibration requires a licensed technician.

Please contact your local dealer to inquire about an ISF certified technician.



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 is a clean, polished look, and enhanced audio by increasing the “sweet spot”, giving a wider and richer sound field.



Advance 120Hz panel provides clearer, smoother images, even during fast action scenes creating a more stable structure for a crisper picture.



TruMotion 240Hz displays 240 scenes per second by combining advanced 120Hz technology with scanning backlight. This technology is verified from Intertek & TÜV Rheinland.



In addition to adhering to the new Energy Star 3.0 specification, LG HDTVs have energy-saving options like the ability to choose a content-specific setting, “video mute” or engaging exclusive Intelligent Sensor technology.



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



SRS is a trademark of SRS Labs, Inc.

TruSurround XT technology is incorporated under license from SRS Labs, Inc.



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



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.



Uncompressed 1080p signal transmission without the hassle of messy wires.



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 its surroundings, more pleasing to watch and which can also save up to 50% in power consumption.



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

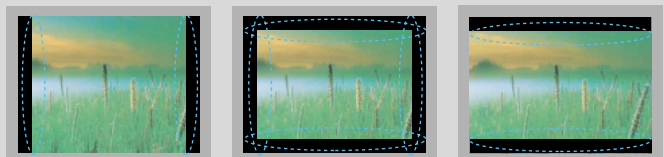
ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, Inc. This is an official DivX Certified device that plays DivX video. Visit www.divx.com for more information and software tools to convert your files into DivX video.

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.



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.

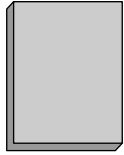


PREPARATION

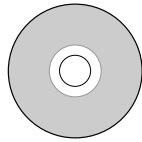
ACCESSORIES

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

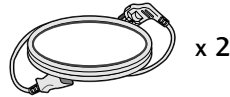
The accessories included may differ from the images below.



Owner's Manual

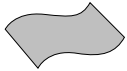


CD Manual



Power Cord

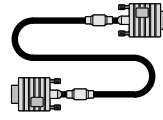
Not included with all models



Polishing Cloth

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

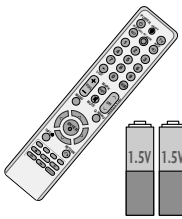
Option Extras



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.

For 47/55LH85

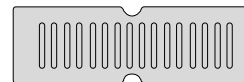


Remote Control, Batteries

(For 47LH85)

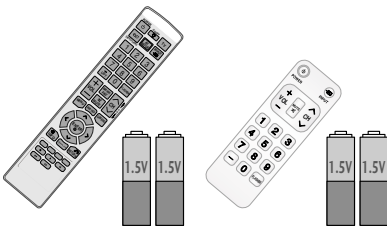


Screws for stand assembly
(Refer to P.17)



Protection Cover
(Refer to P.17)

For 55LHX



Remote Control, Batteries



Plug in Type Holder
(Refer to P.21)



Protective Bracket
for Power Cord
(Refer to P.21)

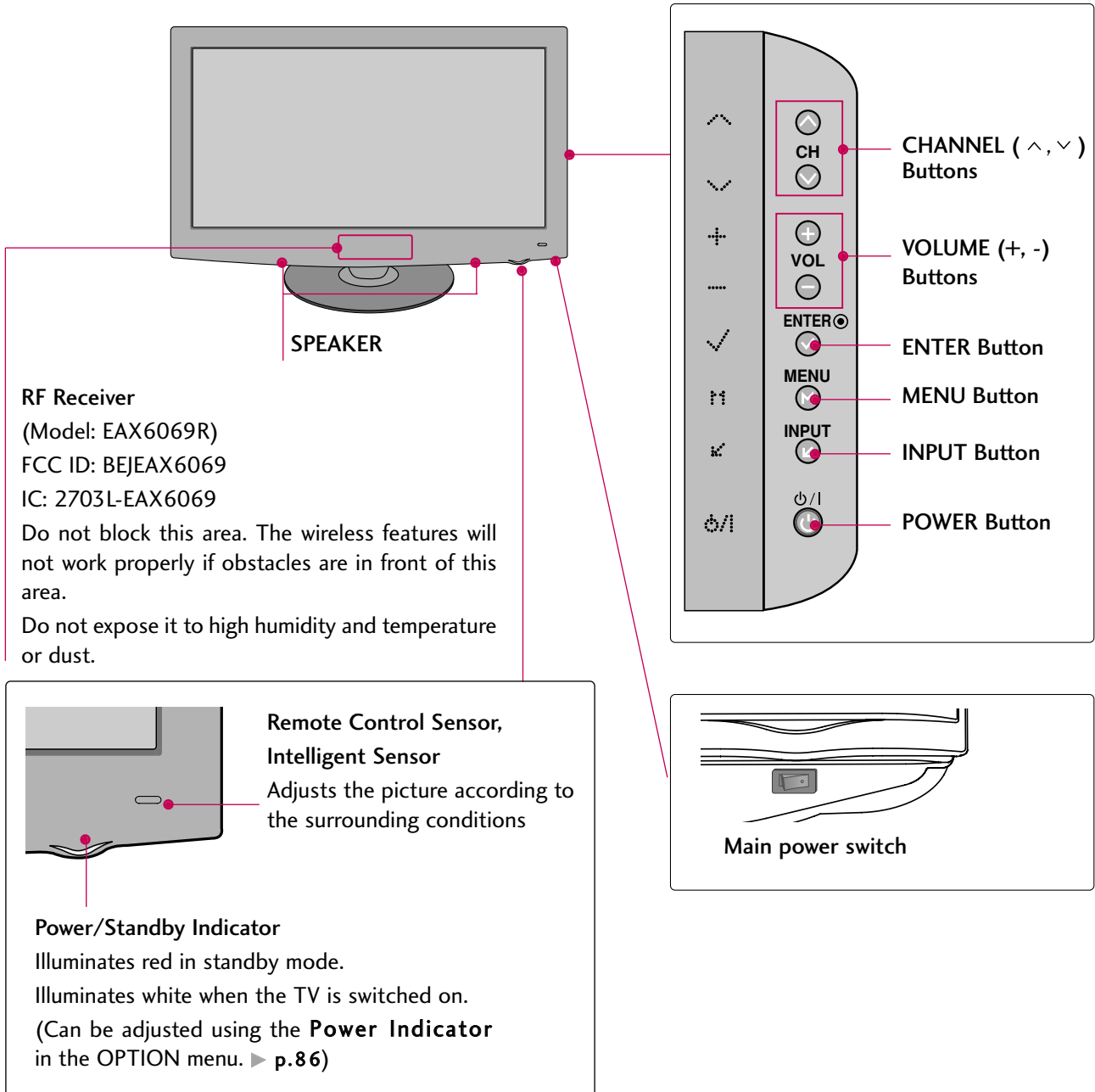
PREPARATION

FRONT PANEL INFORMATION

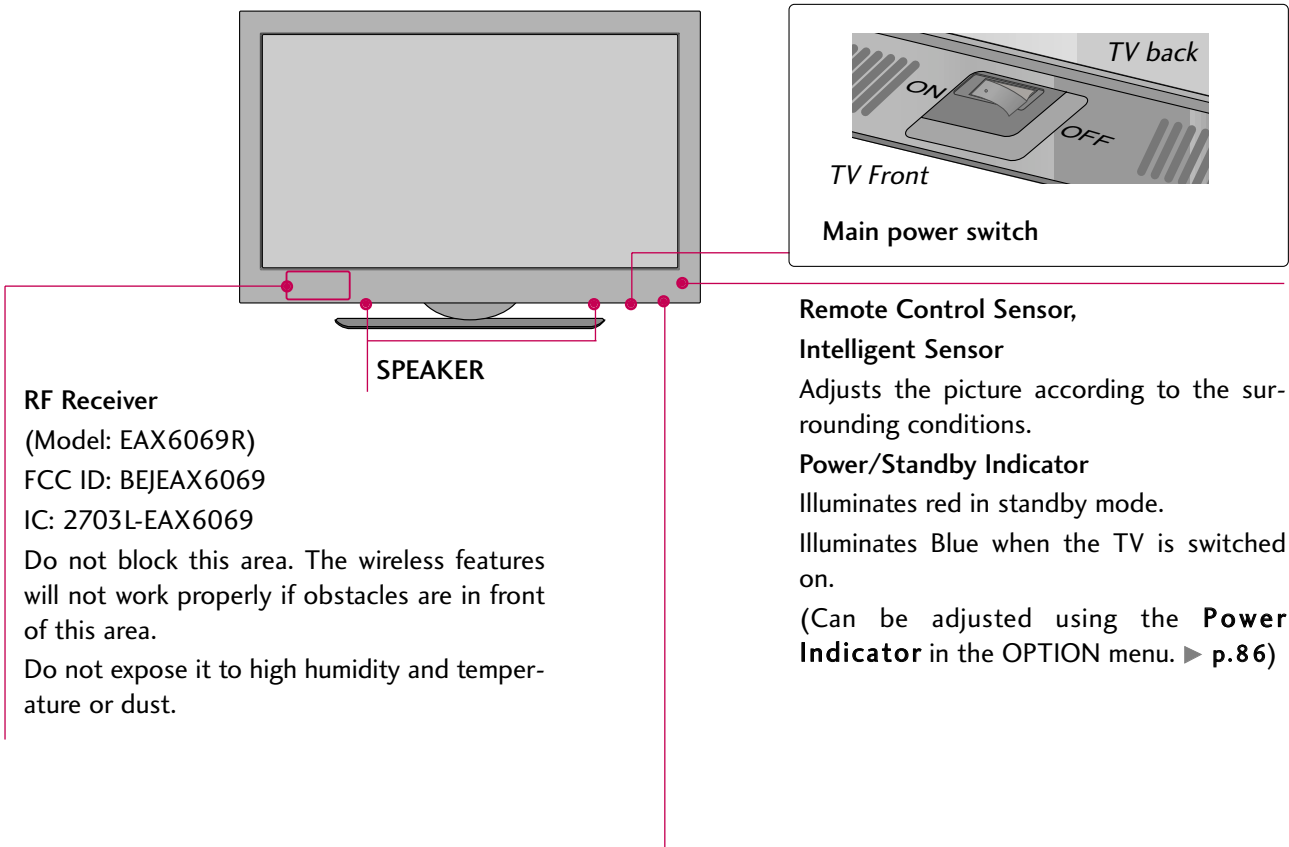
■ Image shown may differ from your product.

PREPARATION

LCD TV (47LH85, 55LH85)



LED LCD TV (55LHX)



RF Receiver
 (Model: EAX6069R)
 FCC ID: BEJEAX6069
 IC: 2703L-EAX6069

Do not block this area. The wireless features will not work properly if obstacles are in front of this area.

Do not expose it to high humidity and temperature or dust.

Remote Control Sensor, Intelligent Sensor

Adjusts the picture according to the surrounding conditions.

Power/Standby Indicator

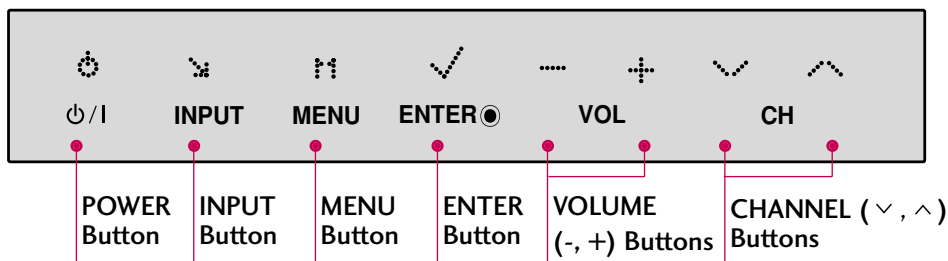
Illuminates red in standby mode.

Illuminates Blue when the TV is switched on.

(Can be adjusted using the **Power Indicator** in the OPTION menu. ▶ p.86)

Touch Button

Light the button by touching first. At this time, you can use the desired button function.



PREPARATION

MEDIA BOX

POWER touch button

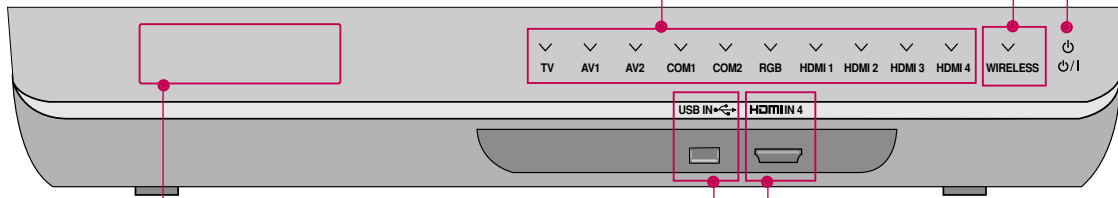
Turn the Media Box on or off by touching. Even if you turn the Media Box off, it turns on again automatically if the TV is switched on (when connected with the media box).

Wireless Connection Indicator

Blinks and then turns on when connecting wirelessly.

Input Source Indicator & INPUT touch button

Select the input source by touching.



RF transmitter

(Model: EAX5296T)
FCC ID: BEJEAX5296
IC: 2703L-EAX5296

Do not place any obstacles between the RF Receiver/Transmitter of the TV and Media Box.

Do not expose it to high humidity and temperature or dust.

HDMI IN

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

USB INPUT

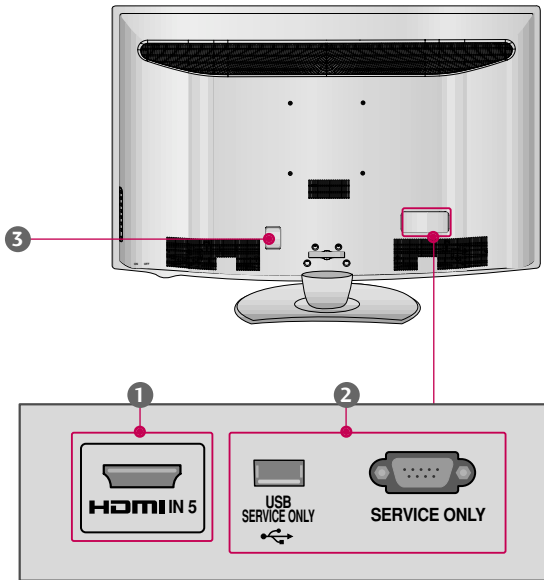
Used for viewing photos, watching movies and listening to MP3s.

* ID Label of Media Box is located at the bottom of Media Box.

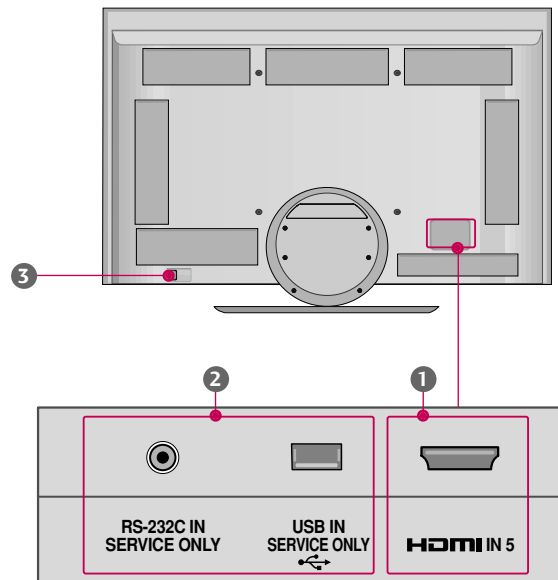
BACK PANEL INFORMATION

▪ Image shown may differ from your product.

LCD TV (47LH85, 55LH85)



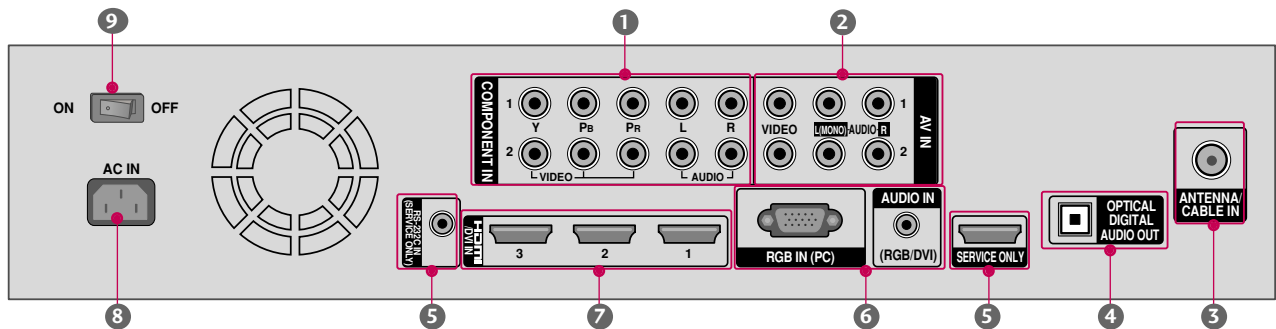
LED LCD TV (55LHX)



- 1 HDMI IN**
 Digital Connection.
 Supports HD video and Digital audio.
 Doesn't support 480i and SIMPLINK (HDMI-CEC).
- 2 USB SERVICE ONLY, SERVICE ONLY**
 Used for software updates.
- 3 Power Cord Socket**
 For operation with AC power.
 Caution: Never attempt to operate the TV on DC power.

PREPARATION

MEDIA BOX



1 COMPONENT IN

Analog Connection.

Supports HD.

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

2 AV (Audio/Video) IN

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

3 ANTENNA/CABLE IN

Connect over-the air/Cable signals to this jack.

4 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.

5 SERVICE ONLY

Used for software updates.

6 RGB IN (PC)

Analog PC Connection. Uses a D-sub 15 pin cable (VGA cable, not included).

AUDIO IN (RGB/DVI)

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

7 HDMI/DVI 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).

8 Power Cord Socket

For operation with AC power.

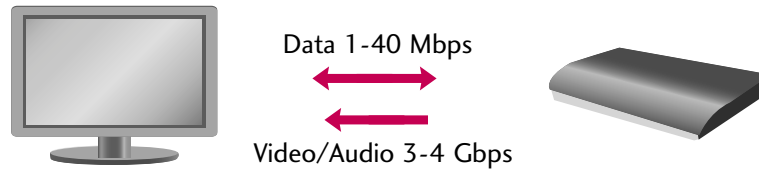
Caution: Never attempt to operate the Media Box on DC power.

9 Main power switch

If you cannot turn the Media Box on with the remote control, turn the power on using the Main power switch and then switch the TV on with POWER button on the remote control.

If you turned the Media Box off using the Main power switch, you cannot turn it on with the remote control.

IMPORTANT THINGS TO KNOW BEFORE INSTALLING THE MEDIA BOX



- The Media Box transmits 1080p HD videos wirelessly using the 60 GHz frequency.
- It transmits uncompressed 1080p HD video to the TV up to 32.8 feet (10 m) in LOS (Line Of Sight).
- It also features beam direction based on the 60 GHz frequency. If there are any obstacles in the way of transmission, the receiver uses an indoor wall or other reflective material and finds an alternative transmission path immediately to avoid the obstacle and maintain the connection.

CAUTIONS IN INSTALLATION

- The performance of radio-signal reception and video quality may differ depending on where the TV and Media Box are located. To get better video quality, make sure to keep the distance between the TV and Media Box within LOS (Line Of Sight) 32.8 feet (10 m) and have them face each other.
- The RF Receiver/Transmitter is located on the front panels of the TV and Media Box. Do not place any obstacle around the RF Receiver/Transmitter. And do not expose it to high humidity and temperature or dust.
- The performance of radio-signal reception may be degraded if the Media Box is installed beside the TV. Press the INFO button on the remote control to check the status of radio-signal reception and install the Media Box where radio-signal reception is **Strong signal** (► p.53).

NOTE

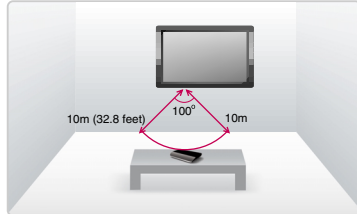
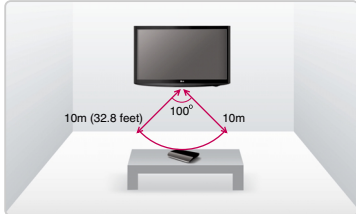
- This product is only for home use.
- Do not use this product in medical institutions or near medical devices. It may cause some medical devices to malfunction.
- Video quality may be degraded or reception distance may be shortened depending on the surrounding circumstances.
- If there are any obstacles between the TV and Media Box, the performance of radio-signal reception may be degraded.
- If there are any moving objects between the TV and Media Box, the screen may flicker briefly but will return to normal immediately, and no problem will occur in operation.
- If you install the Media Box out of the maximum range of reception/transmission, connection may fail or video quality may be degraded.
- If you install the Media Box to the left or right side of the TV, video quality may be degraded.
- If you install the Media Box inside a metal cabinet, connection may fail.
- If you install the Media Box on the middle of a table, connection may fail or video quality may be degraded. Install the Media Box close to the edge of a table.
- If there are two wireless TV sets or Media Boxes within LOS (Line Of Sight) 32.8 feet (10 m), they may interfere with each other and wireless connection may fail.
- If you use other 60GHz frequency bandwidth wireless equipments with this product, it may affect the wireless connectivity by interference (To see RF specification, refer to P.121).

PREPARATION

INSTALLATION METHOD FOR MEDIA BOX

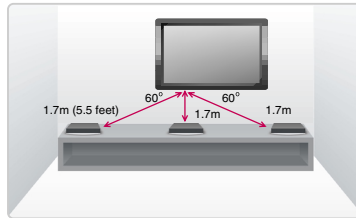
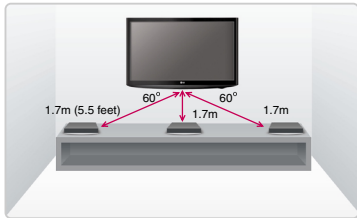
- Image shown may differ from your TV.
- This is a recommended installation type for good wireless connection.

PREPARATION



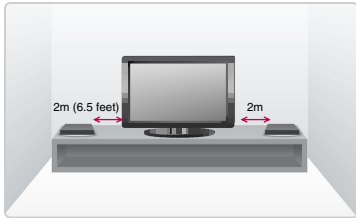
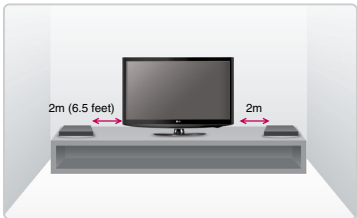
When the Media Box and TV are kept apart and facing each other

Have the RF Receiver/Transmitter of the Media Box and TV face each other. Keep the distance between them to within 32.8 feet (10 m) and maintain the face angle of the TV within 100 degrees.



When installing the Media Box and TV on the same wall

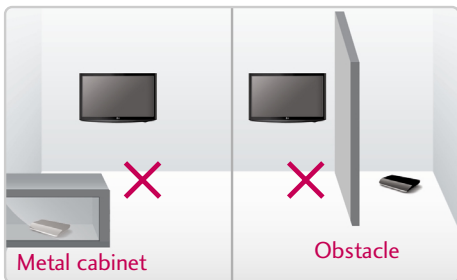
Have the Media Box and TV face the front. Keep the distance between them within 5.5 feet (1.7) m and maintain the face angle of the TV within 60 degrees.



When installing the Media Box and TV side by side

Have the Media Box and TV face the front. Keep the distance between them within 6.5 feet (2 m).

Precaution for installation environment



Do not place any obstacle around the RF Receiver/RF Transmitter.

If you install the Media Box inside a metal cabinet, connection may fail.

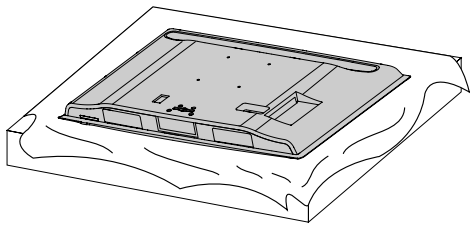
If there are two wireless TV or Media Boxes within LOS (Line Of Sight) 32.8 feet (10 m), they may interfere with each other and wireless connection may fail.

STAND INSTRUCTIONS (For 47/55LH85)

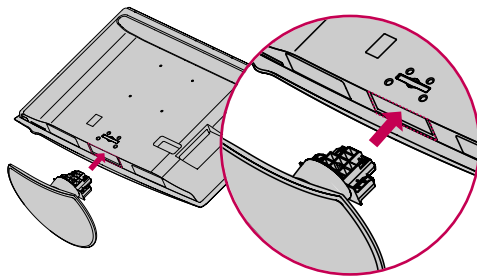
■ Image shown may differ from your TV.

INSTALLATION (For 47LH85)

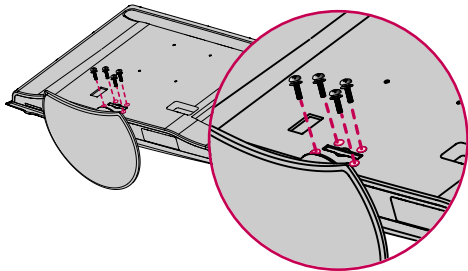
- 1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



- 2 Assemble the TV as shown.



- 3 Fix the 4 screws securely using the holes in the back of the TV.

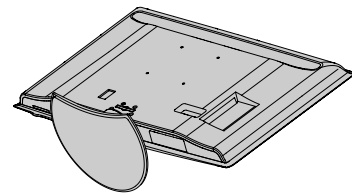


! NOTE

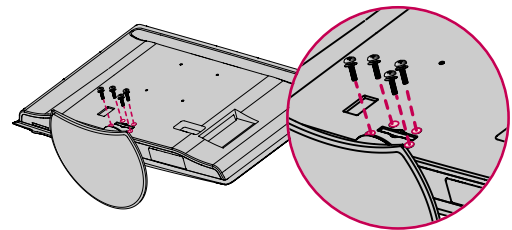
► When assembling the desk type stand, make sure the screws are fully tightened (If not tightened fully, the TV can tilt forward after the product installation). Do not over tighten.

DETACHMENT

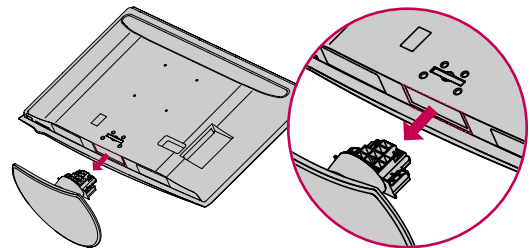
- 1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



- 2 Remove the screws from the TV.

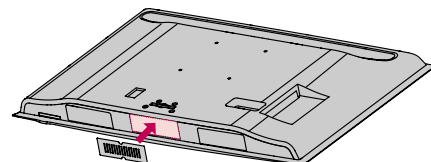


- 3 Detach the stand from TV.



PROTECTION COVER

- 4 After removing the protection paper from the **PROTECTION COVER**, adhere it to the TV as shown.



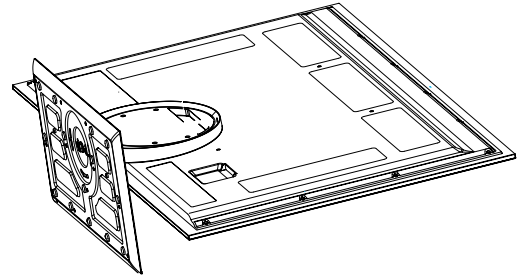
PREPARATION

STAND INSTRUCTIONS (For 55LHX)

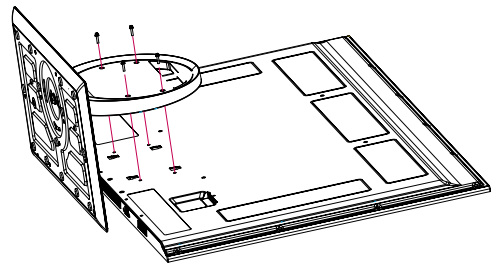
- Image shown may differ from your product.

DETACHMENT

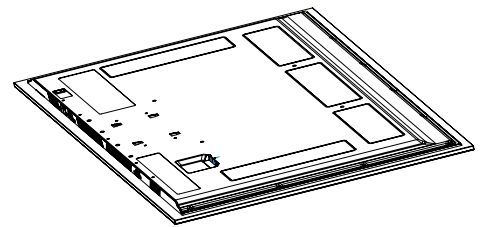
- 1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



- 2 Remove the screws from the TV.



- 3 Detach the stand from TV.



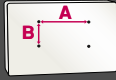
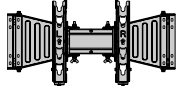
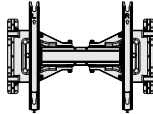
VESA WALL MOUNTING

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)
47LH85	200 * 200	M6	4	 AW-47LG30M
55LH85, 55LHX	400 * 400	M6	4	 AW-55LH40M

! 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.

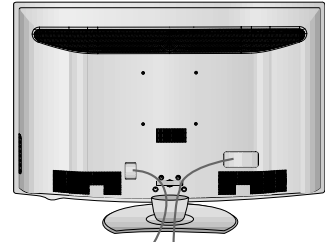
PREPARATION

CABLE MANAGEMENT (For 47/55LH85)

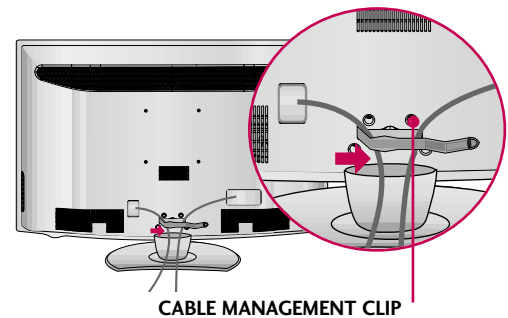
■ Image shown may differ from your TV.

PREPARATION

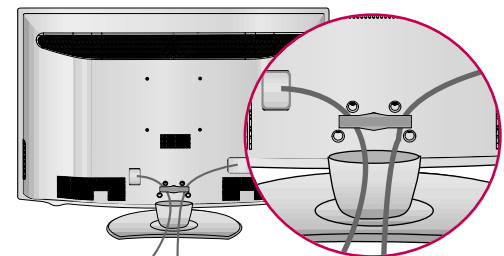
- 1 Connect the cables as necessary.
To connect additional equipment, see the **EXTERNAL EQUIPMENT SETUP** section.



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



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

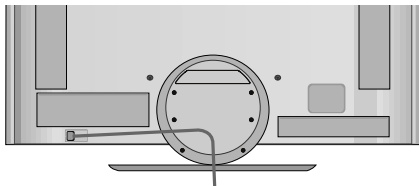


CABLE MANAGEMENT (For 55LHX)

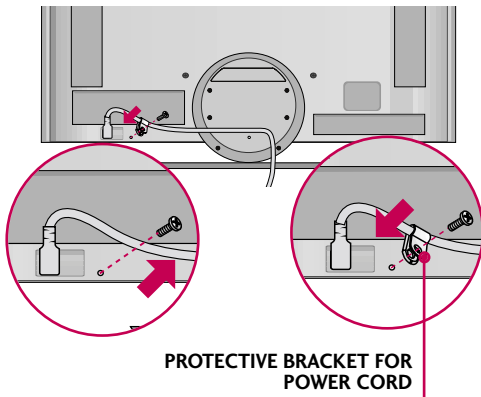
▪ Image shown may differ from your TV.

FOR DESK-TYPE STAND

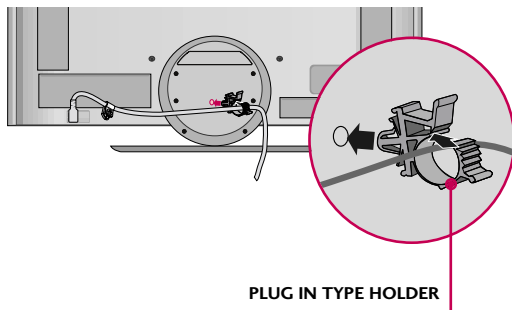
- 1 Connect the cables as necessary.
To connect additional equipment, see the **EXTERNAL EQUIPMENT SETUP** section.



- 2 Loosen the screw as shown.
Then, secure the power cord with the **PROTECTIVE BRACKET** and reinstall the screw again.
It will help prevent the power cord from being removed by accident.

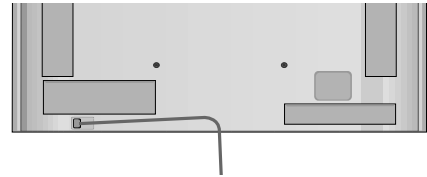


- 3 Install the **PLUG IN TYPE HOLDER** and put the cable inside it.

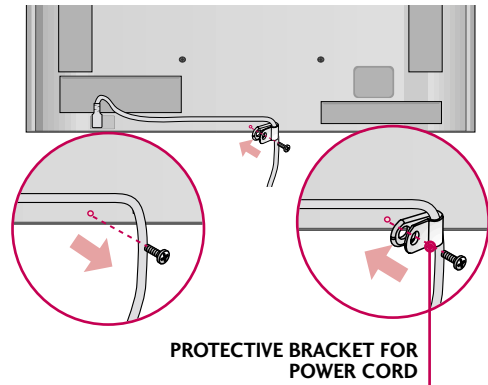


FOR WALL MOUNT

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



- 2 Loosen the screw as shown.
Then, secure the power cord with the **PROTECTIVE BRACKET** and reinstall the screw again.



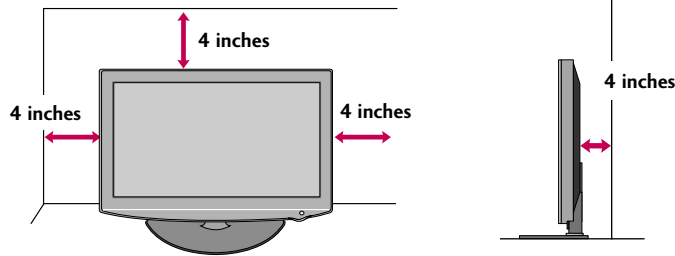
PREPARATION

PREPARATION

DESKTOP PEDESTAL INSTALLATION

- Image shown may differ from your TV.

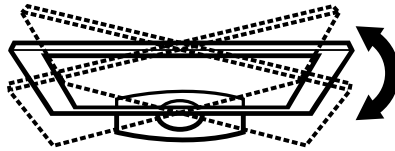
For proper ventilation, allow a clearance of 4 inches on all four sides from the wall.



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

SWIVEL STAND

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



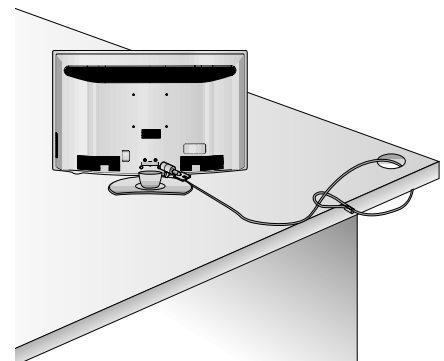
KENSINGTON SECURITY SYSTEM

- Image shown may differ from your TV.

- 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.

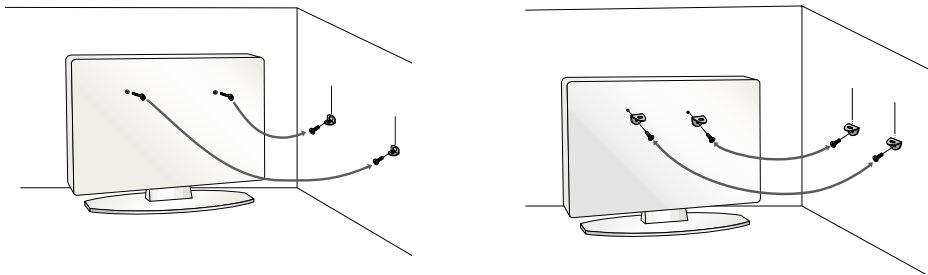


SECURING THE TV TO THE WALL TO PREVENT FALLING WHEN THE TV IS USED ON A STAND

- 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.



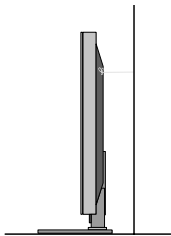
- Insert the eye-bolts (or TV brackets and bolts) to tighten the product to the wall as shown in the picture.

* 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.

PREPARATION

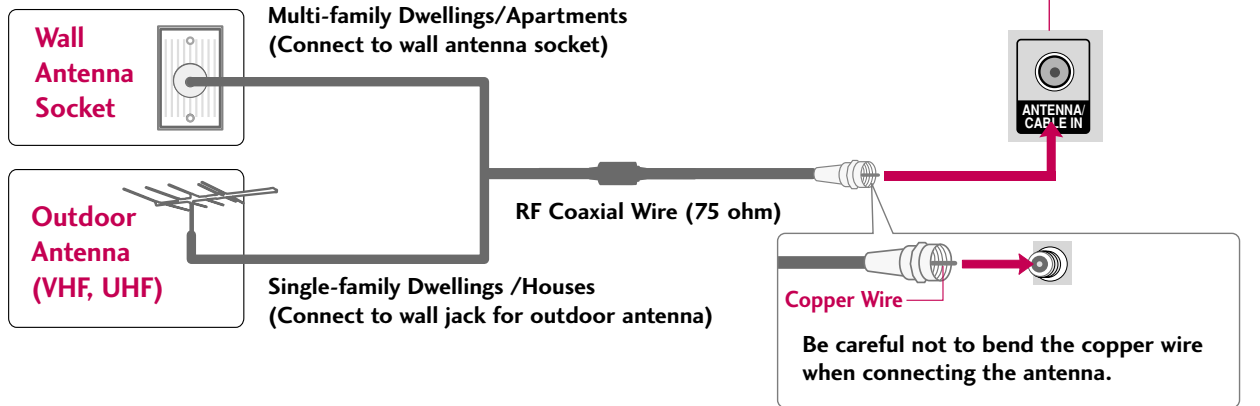
- To prevent damage do not connect to the power outlet until all connections are made between the devices.
- Image shown may differ from your product.

ANTENNA OR CABLE CONNECTION

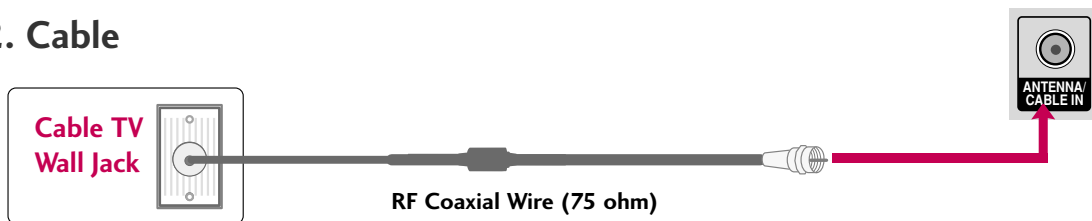
1. Antenna (Analog or Digital)

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

For optimum picture quality, adjust antenna direction if needed.



2. Cable



- To improve the picture quality in a poor signal area, please purchase a signal amplifier and install properly.
- If the antenna needs to be split for two TV's, install a 2-Way Signal Splitter.
- If the antenna is not installed properly, contact your dealer for assistance.
- Refer to <http://AntennaWeb.org> for more information about antennas and Digital TV.

EXTERNAL EQUIPMENT SETUP

- To prevent the equipment damage, never plug in any power cords until you have finished connecting all equipment.
- Image shown may differ from your product.

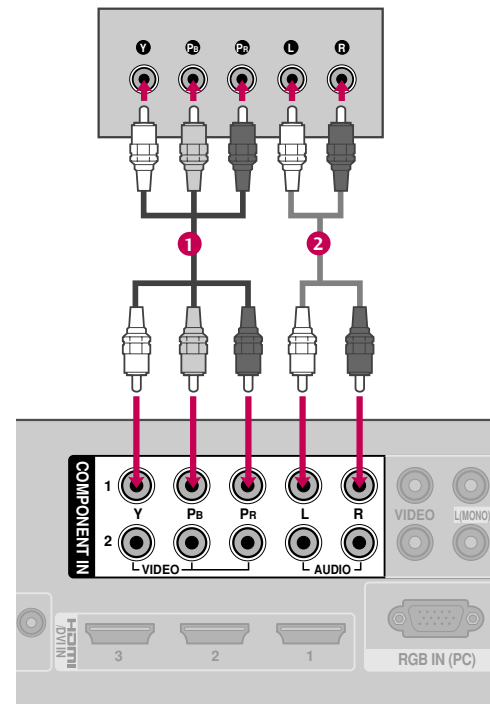
HD RECEIVER SETUP

This Media Box 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 1** or **2** jacks on the Media Box. 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 1** or **2** jacks on the Media Box.



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 **Component1** or **Component2** input source using the **INPUT** button on the remote control.

Supported Resolutions

Signal	Component	HDMI
480i	Yes	No
480p	Yes	Yes
720p	Yes	Yes
1080i	Yes	Yes
1080p	Yes	Yes

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	23.97
	27.00	24.00
	33.71	29.97
	33.75	30.00
	67.43	59.94
	67.50	60.00

EXTERNAL EQUIPMENT SETUP

HDMI Connection

1. How to connect

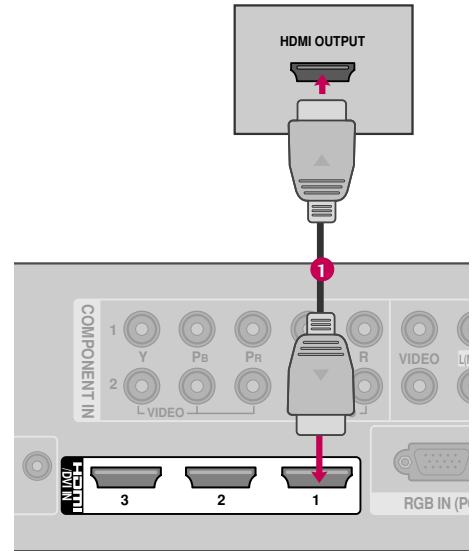
- 1 Connect the digital set-top box to **HDMI/DVI IN 1, 2, 3,** or **HDMI IN 4** jack on the Media Box or **HDMI IN 5** on the TV.
- 2 No separate audio connection is necessary. HDMI supports both audio and video.

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, HDMI4,** or **HDMI5** input source using the **INPUT** button on the remote control.

! NOTE

- ▶ Check HDMI cable over version 1.3.
If the HDMI cables don't support HDMI version 1.3, it can cause flickers or no screen display. In this case use the latest cables that support HDMI version 1.3.
- ▶ HDMI Audio Format: PCM, Dolby Digital



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	23.97
	27.00	24.00
	33.71	29.97
	33.75	30.00
	67.43	59.94
	67.50	60.00

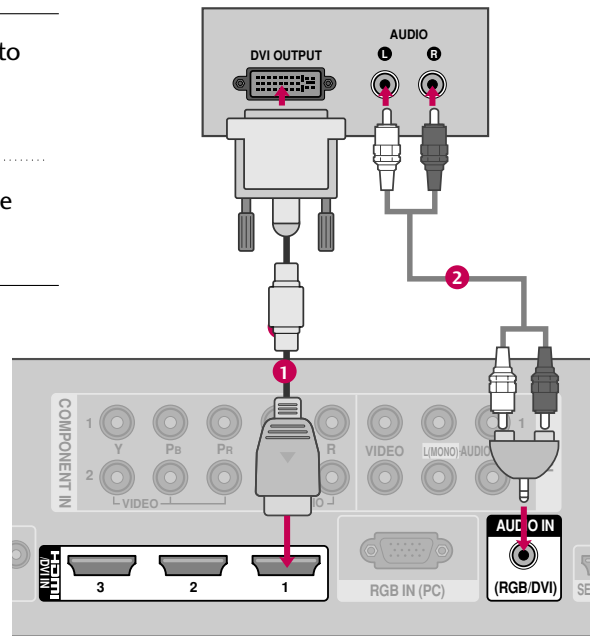
DVI to HDMI Connection

1. How to connect

- 1 Connect the DVI output of the digital set-top box to the **HDMI/DVI IN 1, 2, or 3** jack on the Media Box.
- 2 Connect the digital set-top box audio output to the **AUDIO IN (RGB/DVI)** jack on the Media Box.

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



EXTERNAL EQUIPMENT SETUP

DVD SETUP

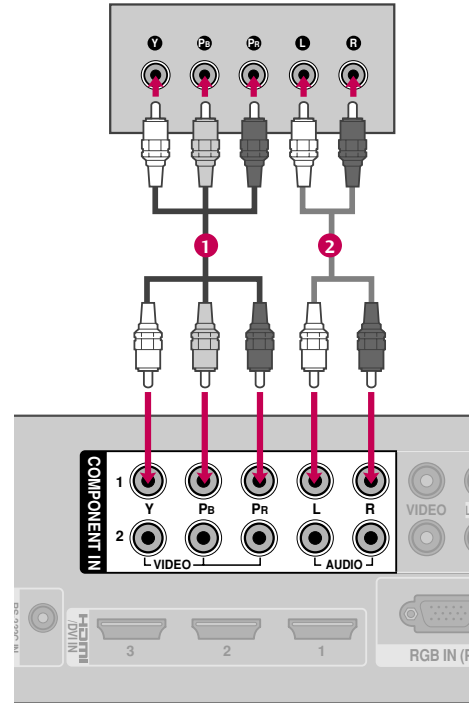
Component Connection

1. How to connect

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

2. How to use

- Turn on the DVD player, insert a DVD.
- Select the **Component1** or **Component2** input source using the **INPUT** button on the remote control.
- Refer to the DVD player's manual for operating instructions.



HDMI Connection

1. How to connect

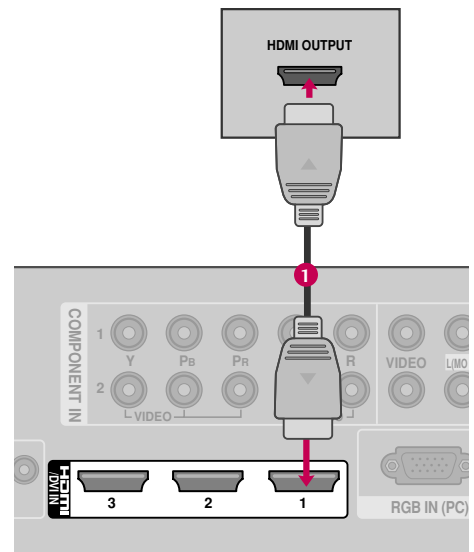
- 1 Connect the HDMI output of the DVD to the **HDMI/DVI IN 1, 2, 3, or HDMI IN 4** jack on the Media Box or **HDMI IN 5** on the TV.
- 2 No separate audio connection is necessary. HDMI supports both audio and video.

2. How to use

- Select the **HDMI1, HDMI2, HDMI3, HDMI4, or HDMI5** input source using the **INPUT** button on the remote control.
- Refer to the DVD player's manual for operating instructions.

NOTE

- ▶ Check HDMI cable over version 1.3. If the HDMI cables don't support HDMI version 1.3, it can cause flickers or no screen display. In this case use the latest cables that support HDMI version 1.3.

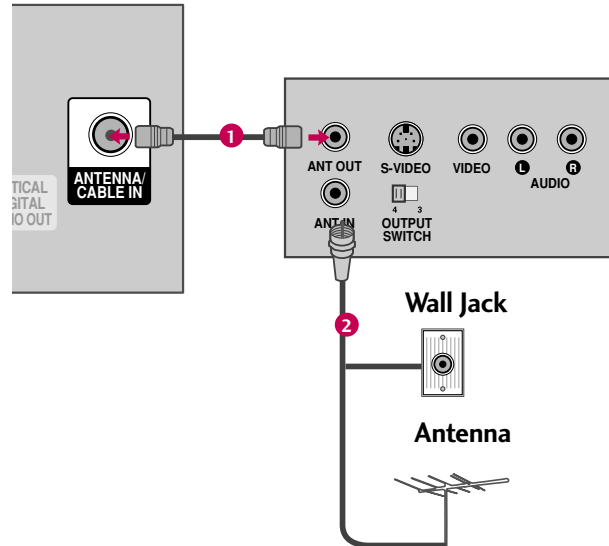


VCR SETUP

Antenna Connection

1. How to connect

- 1 Connect the RF antenna out socket of the VCR to the **ANTENNA/CABLE IN** socket on the Media Box.
- 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 Media Box 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.)

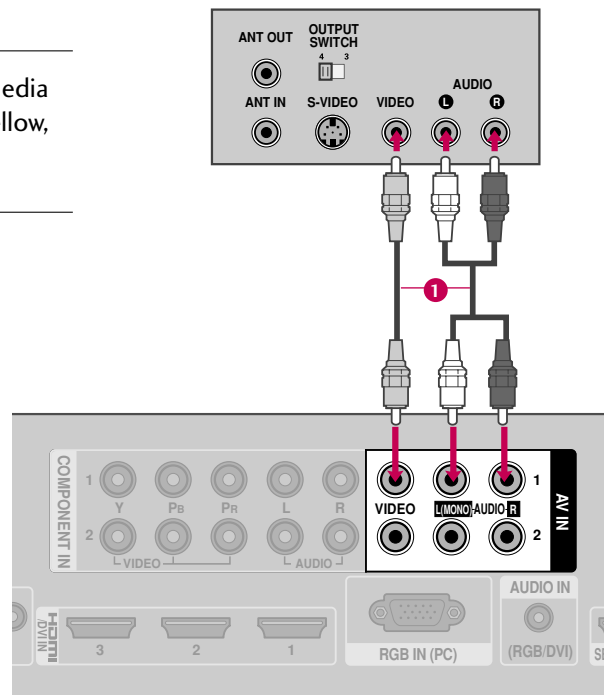
Composite (RCA) Connection

1. How to connect

- 1 Connect the **AUDIO/VIDEO** jacks between Media Box 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 **AV1** or **AV2** input source using the **INPUT** button on the remote control.



EXTERNAL EQUIPMENT SETUP

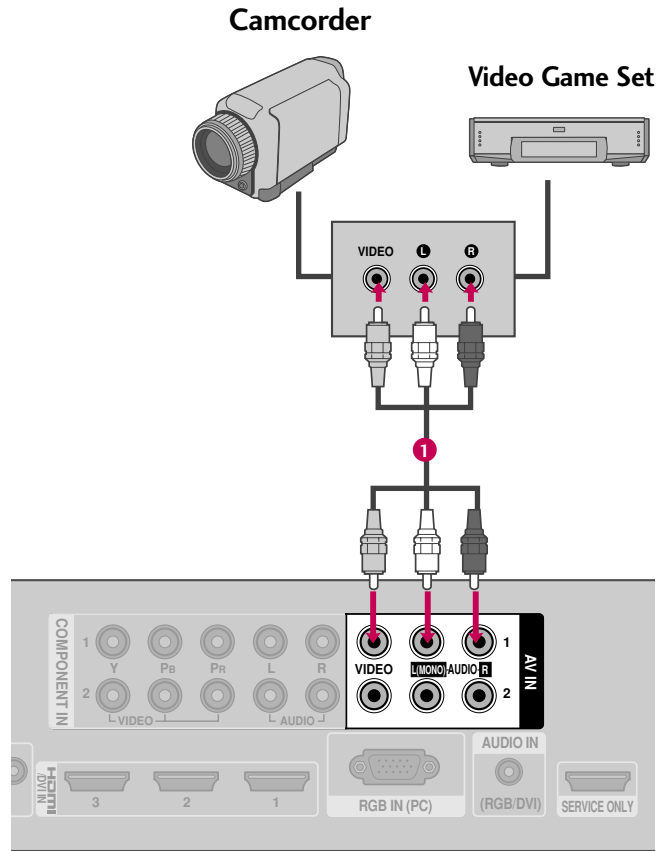
OTHER A/V SOURCE SETUP

1. How to connect

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

2. How to use

- Select the **AV1** or **AV2** input source using the **INPUT** button on the remote control.
- Operate the corresponding external equipment.



USB CONNECTION

1. How to connect

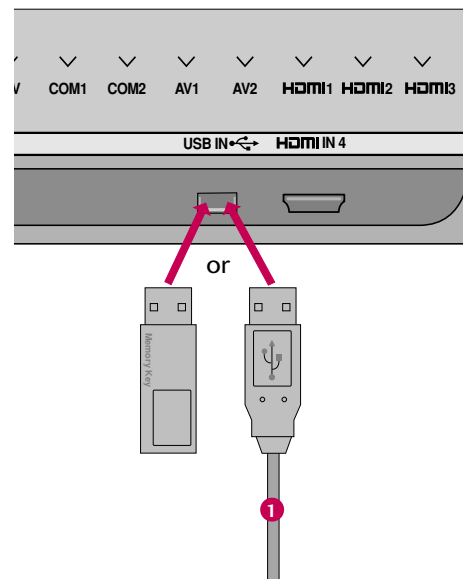
- 1 Connect the USB device to the **USB IN** jack on the Media Box.

2. How to use

- After connecting the **USB IN** jack, you use the USB function.
(▶ p.60)

! NOTE

- ▶ Check USB cable over version 2.0.



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 Media Box to a Home Theater (or amp).

1. How to connect

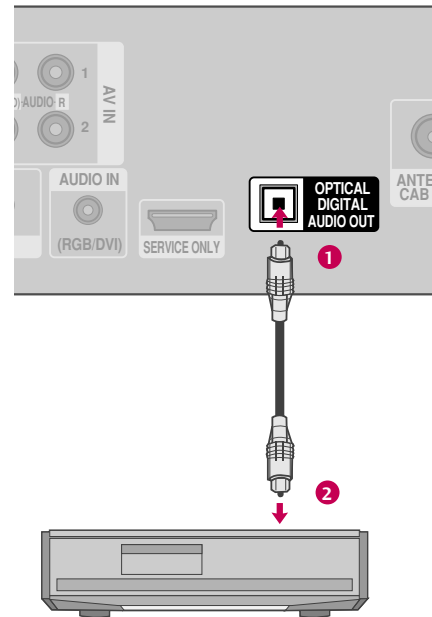
- 1 Connect one end of the optical cable to the Media Box port of **OPTICAL DIGITAL AUDIO OUT**.
- 2 Connect the other end of the optical cable to the digital audio input on the audio equipment.
- 3 Set the "TV Speaker - Off" in the AUDIO menu. (▶ p.94). See the external audio equipment instruction manual 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.94)
- ▶ HDMI5 input source cannot be used for AUDIO OUT.

! 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.



EXTERNAL EQUIPMENT SETUP

PC SETUP

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

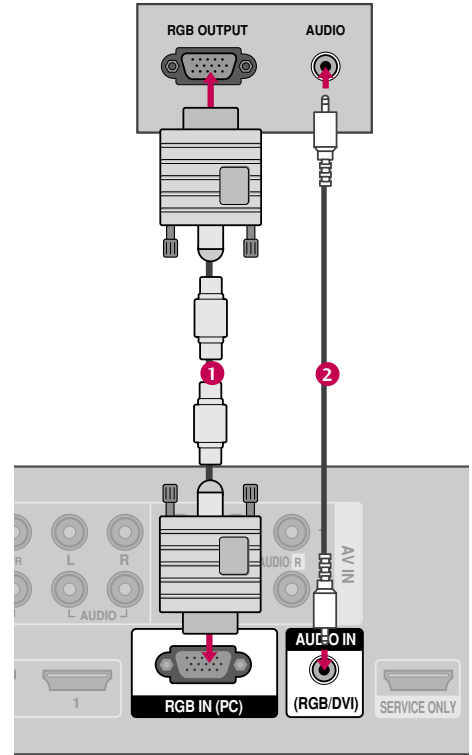
VGA (D-Sub 15 pin) Connection

1. How to connect

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

2. How to use

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



DVI to HDMI Connection

1. How to connect

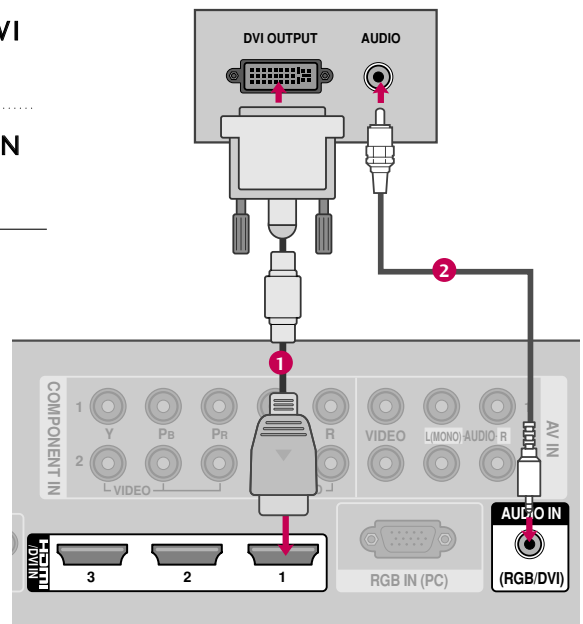
- 1 Connect the DVI output of the PC to the **HDMI/DVI IN 1, 2, or 3** jack on the Media Box.
- 2 Connect the PC audio output to the **AUDIO IN (RGB/DVI)** jack on the Media Box.

2. How to use

- Turn on the PC and the Media Box.
- Select the **HDMI1**, **HDMI2**, or **HDMI3** input source using the **INPUT** button on the remote control.

! NOTE

- ▶ Check HDMI cable over version 1.3. If the HDMI cables don't support HDMI version 1.3, it can cause flickers or no screen display. In this case use the latest cables that support HDMI version 1.3.



! NOTES

- ▶ To get the the best picture quality, adjust the PC graphics card to **1920x1080**.
- ▶ 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.
- ▶ If there are overscan in HDMI-PC 1920x1080, change aspect ratio to **Just scan**.
- ▶ When selecting HDMI-PC, set the “Input Label - PC” in the OPTION menu.
- ▶ A driver for the TV is not needed. The TV sends the required info to the graphics card.

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

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
640x350	31.468	70.09
720x400	31.469	70.08
640x480	31.469	59.94
800x600	37.879	60.31
1024x768	48.363	60.00
1280x768	47.776	59.87
1360x768	47.712	60.015
1280x1024	63.981	60.02
1600x1200	75.00	60.00
1920x1080 RGB-PC	66.587	59.934
1920x1080 HDMI-PC	67.5	60.00

EXTERNAL EQUIPMENT SETUP

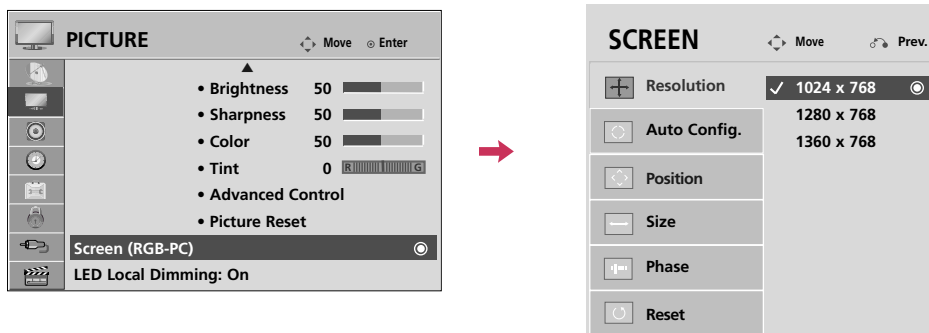
Screen Setup for PC mode

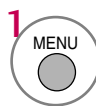
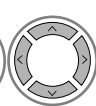

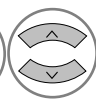

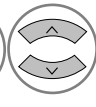

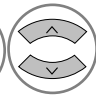

Selecting Resolution

You can choose the resolution in RGB-PC mode.

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

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












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

Auto Configure

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



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

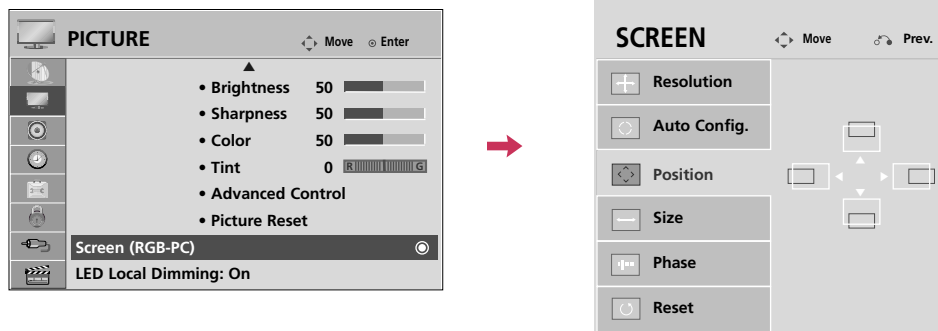
- If the position of the image is still not correct, try Auto adjustment again.
- If picture needs to be adjusted again after Auto adjustment in RGB-PC, you can adjust the **Position**, **Size** or **Phase**.

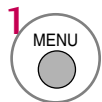


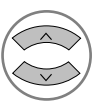

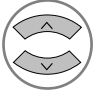

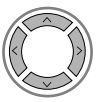

EXTERNAL EQUIPMENT SETUP

Adjustment for screen Position, Size, and Phase

If the picture is not clear after auto adjustment and especially if characters are still trembling, adjust the picture phase manually.

This feature operates only in RGB-PC mode.












-   Select **PICTURE**.
-   Select **Screen (RGB-PC)**.
-   Select **Position, Size, or Phase**.
-   Make appropriate adjustments.
- 

- **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 factory values)

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



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


WATCHING TV / CHANNEL CONTROL

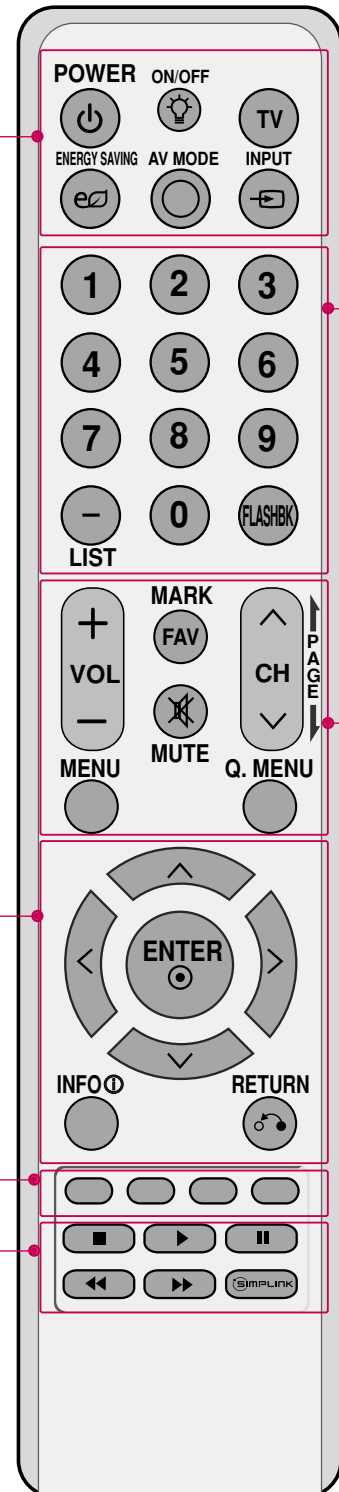
REMOTE CONTROL FUNCTIONS

When using the remote control, aim it at the remote control sensor on the TV.

47/55LH85

WATCHING TV / CHANNEL CONTROL

- POWER**
 - When the TV and Media Box are connected, the power of both the TV and Media Box will be turned on/off.
 - When the TV and Media Box are not connected, only the power of the TV will be turned on/off.
- ON/OFF**  Illuminates the remote control buttons.
- TV** Returns to the last TV channel.
- ENERGY SAVING** Adjusts the Energy Saving setting. ▶ p.84
- AV MODE** Toggles through preset Video and Audio modes. ▶ p.56
- INPUT** Rotates through inputs.
Also switches the TV on from standby. ▶ p.54
- THUMBSTICK** (Up/Down/Left/Right/ENTER) Navigates the on-screen menus and adjusts the system settings to your preference.
- INFO** Displays channel information and wireless signal strength at the top of the screen. ▶ p.53
- RETURN** Allows the user to move return one step in an interactive application or other user interaction function.
- COLOR buttons** Uses for Optional functions.
- USB, SIMPLINK Control buttons**
 - Controls USB menu (Photo List, Music List, Movie List.)
 - Controls the SIMPLINK compatible devices.
- SIMPLINK** See a list of AV devices connected to the Media Box. When you toggle this button, the SIMPLINK menu appears at the screen. ▶ p.58-59

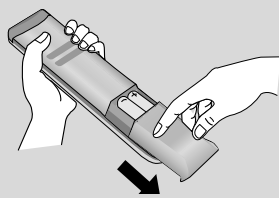


NUMBER button

- (DASH)** Used to enter a program number for multiple program channels such as 2-1, 2-2, etc.
- LIST** Displays the channel table. ▶ p.51
- FLASHBK** Tunes to the last channel viewed.

VOLUME UP /DOWN Adjusts the volume.

- FAV** Scroll through the programmed Favorite channels. ▶ p.52
- MARK** Select the input to apply the Picture Wizard settings. ▶ p.77
Use to mark or unmark a photo/music/movie. ▶ p.62, 66, 69
- MUTE** Switches the sound on or off. ▶ p.44
- CHANNEL UP/DOWN** Changes the channel.
- PAGE UP/DOWN** Moves from one full set of screen information to the next one.
- MENU** Displays the main menu or clears all on-screen displays and return to TV viewing.
- Q.MENU** Opens the list of Quick Menu options. ▶ p.47

Installing Batteries


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

WATCHING TV / CHANNEL CONTROL

When using the remote control, aim it at the remote control sensor on the TV.

55LHX

- POWER**
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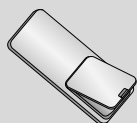
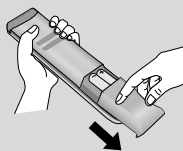
RETURN Allows the user to move return one step in an interactive application or other user interaction function.

COLOR buttons Uses for Optional functions.

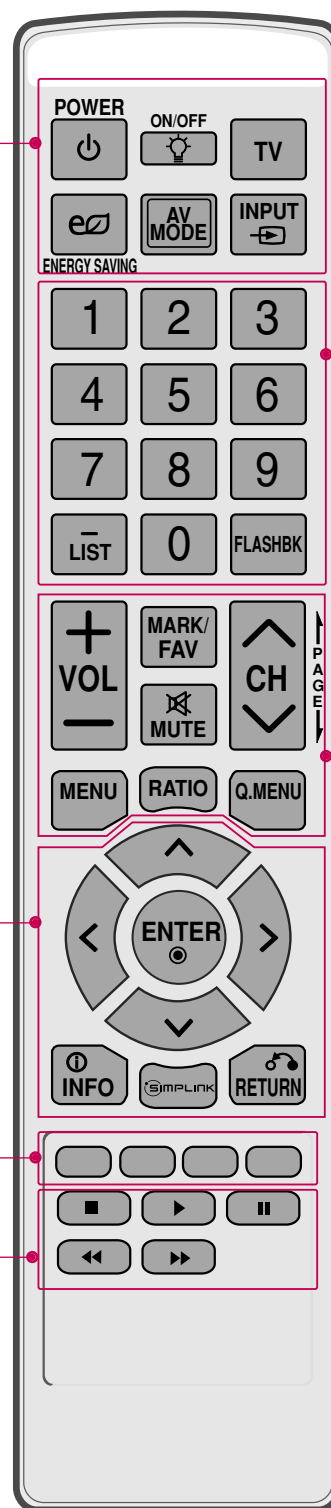
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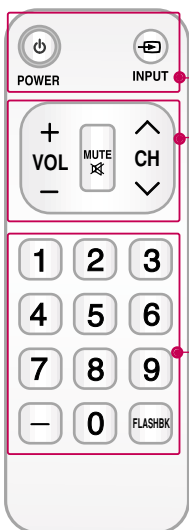


NUMBER button

- (DASH) Used to enter a program number for multiple program channels such as 2-1, 2-2, etc.
- LIST Displays the channel table. ▶ p.51
- FLASHBK Tunes to the last channel viewed.

VOLUME UP /DOWN

- FAV Scroll through the programmed Favorite channels. ▶ p.52
- MARK Select the input to apply the Picture Wizard settings. ▶ p.76
Use to mark or unmark a photo/music/movie. ▶ p.62, 66, 69
- MUTE Switches the sound on or off. ▶ p.44
- CHANNEL UP/DOWN Changes the channel.
- PAGE UP/DOWN Moves from one full set of screen information to the next one.
- MENU Displays the main menu or clears all on-screen displays and return to TV viewing.
- Q.MENU Opens the list of Quick Menu options. ▶ p.47
- RATIO Changes the aspect ratio. ▶ p.74

Simple Remote Control

- POWER Turns the TV on from standby or off.
- INPUT Rotates through inputs. ▶ p.54
- VOLUME UP /DOWN Adjusts the volume.
- MUTE Switches the sound on or off. ▶ p.44
- CHANNEL UP/DOWN Changes the 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.51
- FLASHBK Tunes to the last channel viewed.

WATCHING TV / CHANNEL CONTROL

TURNING ON THE TV

- 1 First, connect power cord correctly and switch the **main power switch** to the on position (ON) on the TV and Media Box.

At this moment, the TV and Media Box switch to standby mode.

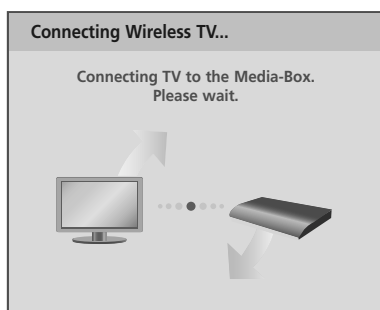
- In standby mode to turn TV on, press the $\phi/|$, **INPUT, CH** (\wedge or \vee) button on the TV or press the **POWER, INPUT, CH** (\wedge or \vee), **Number (0~9)** button on the remote control.

Turning on or off the TV will turn on or off the Media Box also. If the Media Box doesn't turn on automatically, adjust the Media box location. (▶ p.15-16)

- 2 When the power of the TV is turned on, the picture will be displayed as follows by stage according to the wireless connecting procedure.



TV is searching for the media box using the wireless connection. If it does not move to the next stage within 40 seconds, adjust the Media Box location (Refer to P.15-16).



TV is trying to establish the wireless connection after locating the Media Box.

If it does not move to the next stage in about 5 seconds, adjust the Media Box location (Refer to P.15-16).



Wireless connection is completed.

- This screen appears whenever you turn the TV.
- Connecting the TV and Media Box will take about 30-40 seconds.
- The screen becomes dark briefly right before the connection process is complete.

-
- 3 Select the viewing source by using the **INPUT** button on the remote control.
 - This TV is programmed to remember which power state it was last set to, even if the power cord is out.
 - 4 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.
- ▶ If you remove power from the TV/Media Box or turn off the main power switch on the TV/Media Box, the **Clock** will be reset.

WATCHING TV / CHANNEL CONTROL

CHANNEL SELECTION

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

VOLUME ADJUSTMENT

Adjust the volume to suit your personal preference.

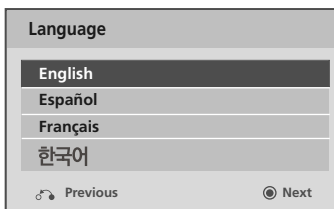
- 1 Press the **VOL (+ or -)** button to adjust the volume.
.....
 - 2 If you want to switch the sound off, press the **MUTE** button.
.....
 - 3 You can cancel the Mute function by pressing the **MUTE** or **VOL (+ or -)** button.
-

INITIAL SETTING

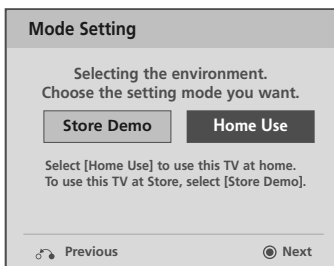
This Function guides the user to easily set the essential items for viewing the TV for the first time when purchasing the TV. It will be displayed on the screen when turning the TV on for the first time. It can also be activated from the user menus.

- 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.
- You can also adjust **Initial Setting** in the **OPTION** menu.

Step1. Selecting Language



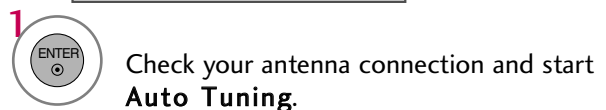
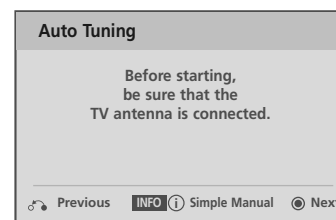
Step2. Mode setting



Step3. Time setting



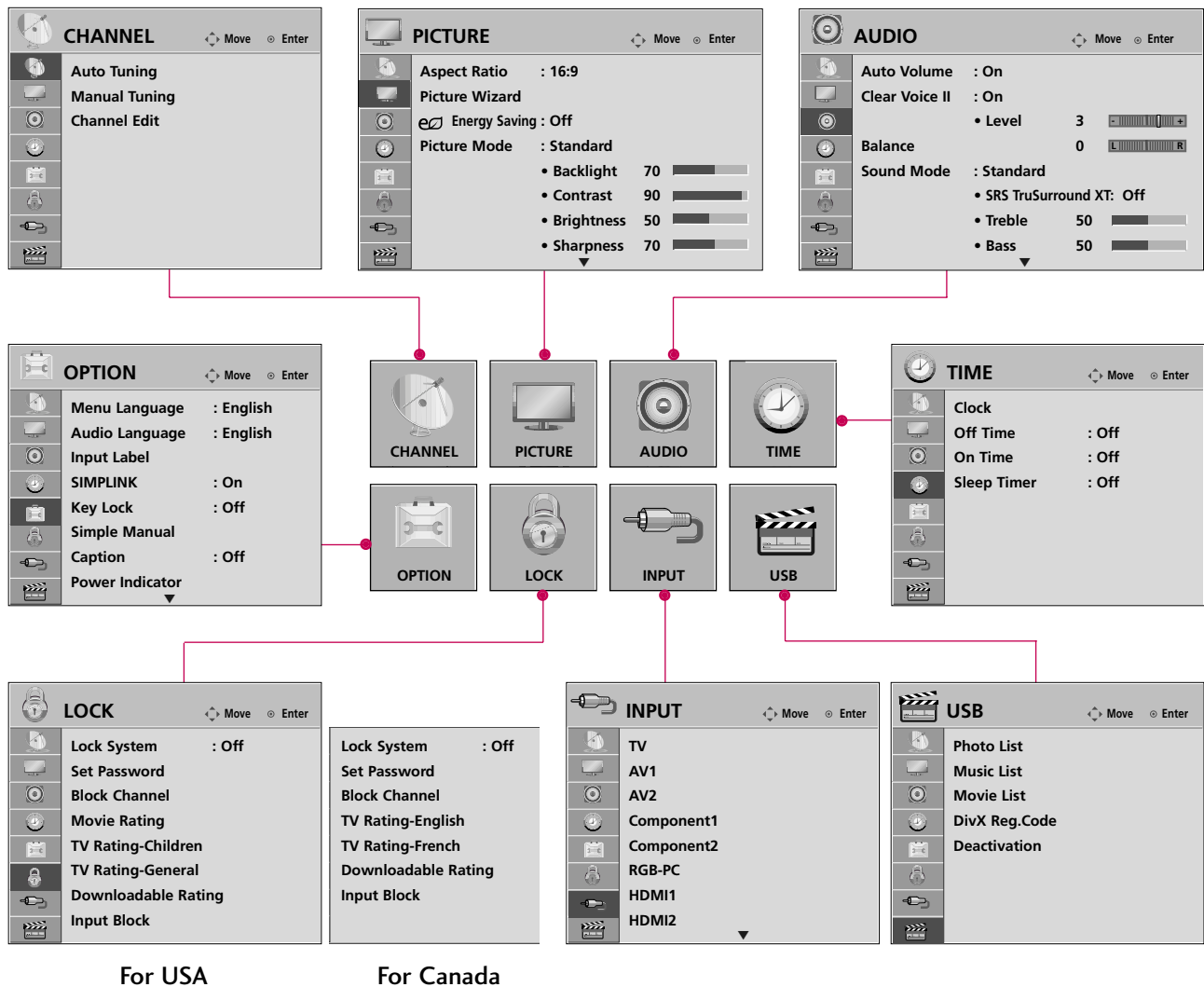
Step4. Auto Tuning









WATCHING TV / CHANNEL CONTROL

ON-SCREEN MENUS SELECTION

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

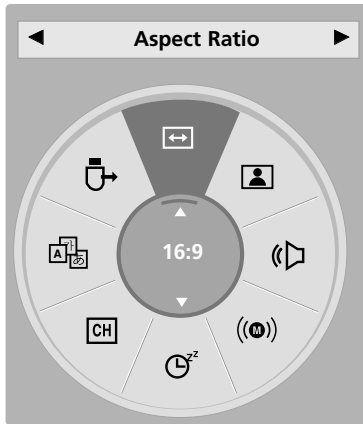


WATCHING TV / CHANNEL CONTROL

- 1   Display each menu.
- 2   Select a menu item.
- 3  Accept the current selection.
- 4  Return to TV viewing.

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 the 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/Fav:** Select channel you want to add/delete or add the channel to the Favorite List.
- Caption:** Select on or off.
- USB Device:** Select "Eject" in order to eject a USB device.

1 Display each menu.

2 Make appropriate adjustments.

3 Return to TV viewing.

WATCHING TV / CHANNEL CONTROL

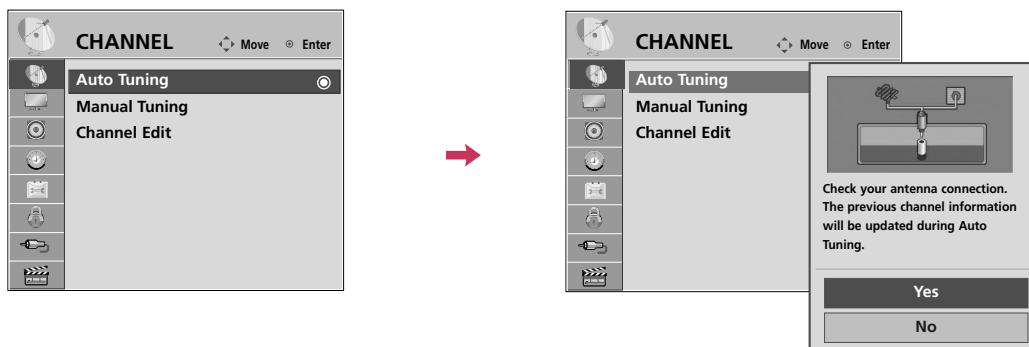
CHANNEL SETUP

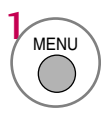


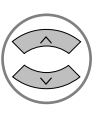





Auto Scan (Auto Tuning)

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. Also, make sure to run this function with the antenna connected during TV broadcasting hours.

Auto Tuning memorizes only the channels available at the time.

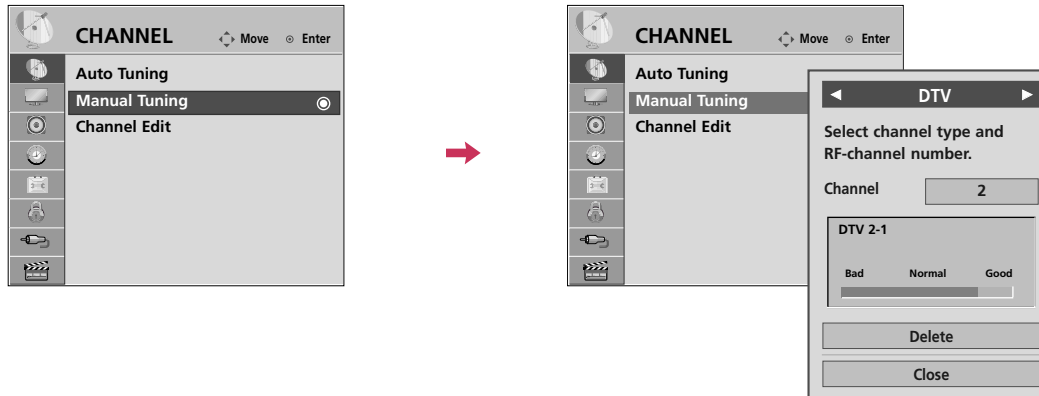









- 1   Select **CHANNEL**.
- 2   Select **Auto Tuning**.
- 3   Select **Yes**.
- 4  Run **Auto tuning**.
- 5  Return to the previous menu.
-  Return to TV viewing.

- The TV will ask for a password if parental control has been activated (LOCK Menu). Use the password you set up in the LOCK Menu to allow a channel search.
- When setting the Auto tuning or Manual tuning, the number of maximum channels you can store is 1000. It is subject to change depending on the broadcasting signal environment.
- Memorizes all the available channels in the order of DTV, TV, CADTV and CATV.

Add/Delete Channel (Manual Tuning)

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



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

- The TV will ask for a password if parental control has been activated (LOCK Menu). Use the password you set up in the LOCK Menu to allow a channel search.
- When setting the Auto tuning or Manual tuning, the number of maximum channels you can store is 1000. It is subject to change depending on the broadcasting signal environment.

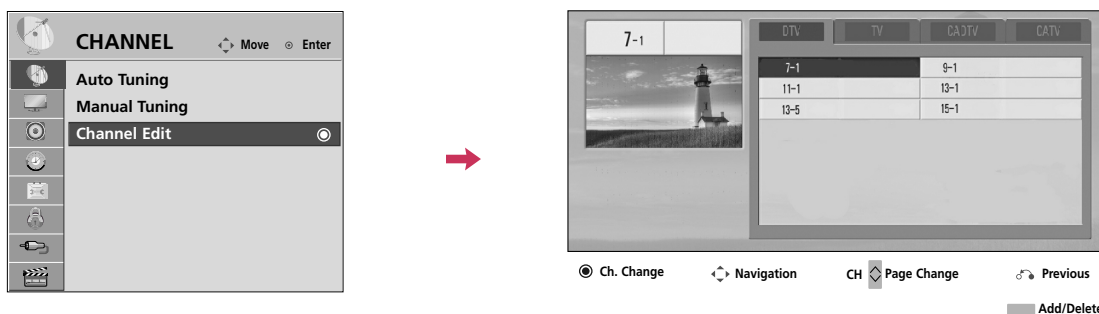
WATCHING TV / CHANNEL CONTROL









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** ^ v button during TV viewing.

If you wish to select the deleted channel, directly enter the channel number with the **NUMBER** buttons or select it in the **Channel Edit** menu.

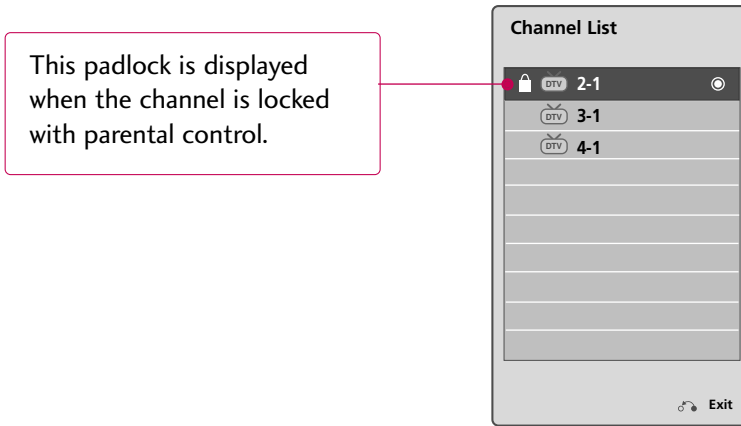


-   Select **CHANNEL**.
-   Select **Channel Edit**.
-   Select a channel.
-  Add or delete a channel.
-  Return to the previous menu.
-  Return to TV viewing.


- Keep pressing the ^ button and use the < or > buttons to move between DTV, TV, CADTV and CATV.
- If the channel list is too long, use the CH ^ or v button to move between pages.

CHANNEL LIST



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





Displaying Channel List

- 1  Display the **Channel List**.

Selecting a channel in the channel list

- 1  Select a channel.
- 2  Switch to the chosen channel number.

Paging through a channel list

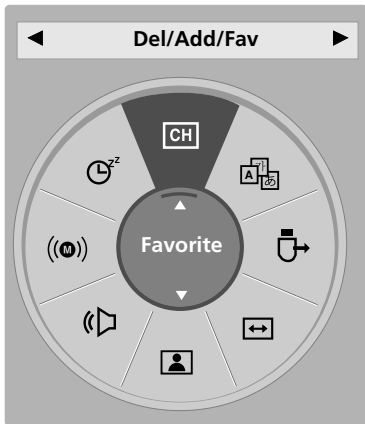
- 1  Turn the pages.
- 2  Return to TV viewing.







WATCHING TV / CHANNEL CONTROL

FAVORITE CHANNEL SETUP

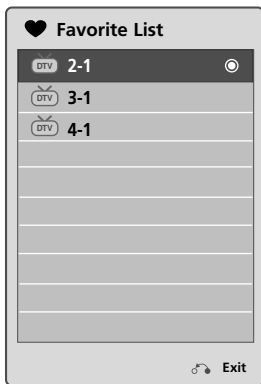
Favorite Channels are a convenient feature that lets you quickly select channels of your choice without waiting for the TV to select all the in-between channels.

To tune to a favorite channel, press the **FAV** (Favorite) button repeatedly.




- 1  or  Select your desired channel.
- 2   Select **Del/Add/Fav**.
- 3  Select **Favorite**.
- 4  Return to TV viewing.



FAVORITE CHANNEL LIST





Displaying the favorite channel list

- 1  Display the Favorite channel list.

Selecting a channel in the favorite channel list

- 1  Select a channel.
- 2  Switch to the chosen channel number.

Paging through a favorite channel list

- 1  Turn the pages.
- 2  Return to TV viewing.

BRIEF INFORMATION

Brief Info shows the present screen information.

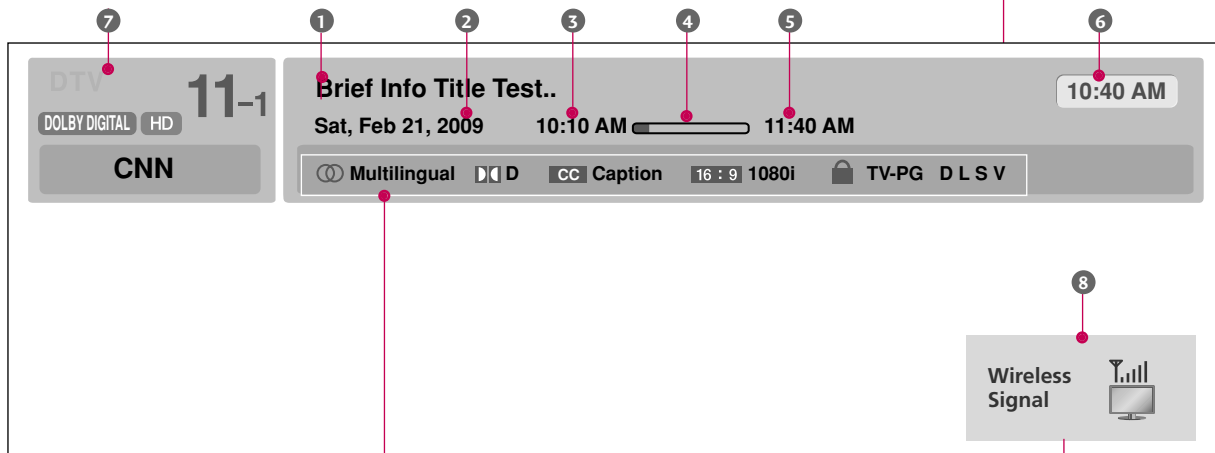


1 Show the Brief Info on the screen.



2 Return to TV viewing.

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



Multilingual : The program contains two or more audio services. Use the **Q.MENU** menu to select wanted Audio.



Caption : The program contains one or more caption services. Use the **Q.MENU** menu to select wanted Closed caption.



Dolby Digital: The program contains a Dolby Digital audio signal in TV, HDMI input source, or DivX.



The original aspect ratio of the video is 4:3



The original aspect ratio of the video is 16:9 (wide)



The video resolution is 720x480i



The video resolution is 720x480p



The video resolution is 1280x720p



The video resolution is 1920x1080i



The video resolution is 1920x1080p

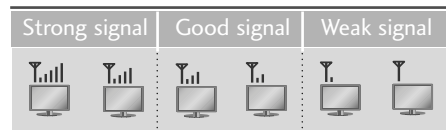


V-Chip: The program contains V-Chip information. Refer to the LOCK menu: A (Age), D (Dialogue), L (Language), S (Sex), V (Violence), FV (Fantasy Violence)

8 Received wireless signal strength indicator.

The signal strength meter changes continuously due to external influences.

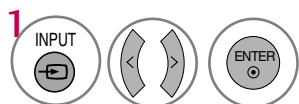
The performance of wireless signal may differ depending on where the TV and Media Box are located. Make sure to install the Media Box where the sensitivity of radio-signal reception is "Strong signal".



WATCHING TV / CHANNEL CONTROL

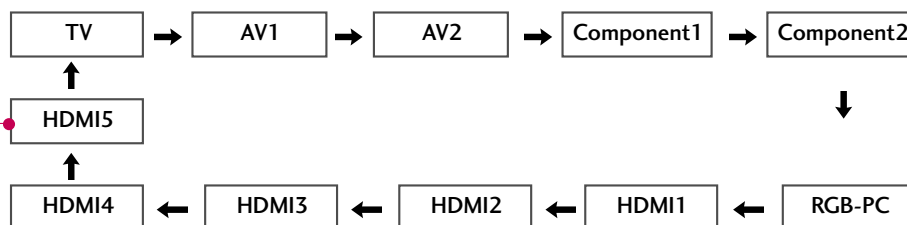
INPUT LIST

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



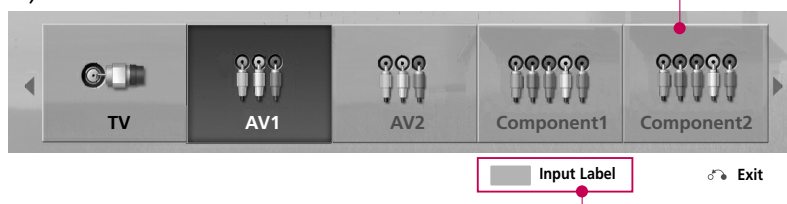
Select the desired input source.

- You can also select the desired input source in the **INPUT** menu.



- Some menus are not available when using HDMI 5.
- HDMI 5 doesn't support SIMPLINK (HDMI-CEC).

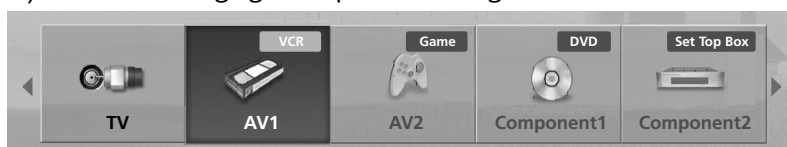
ie)



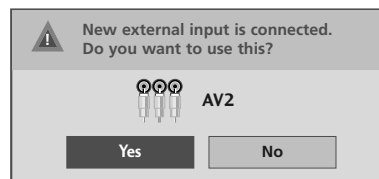
Disconnected inputs are inactive (grayed out)

Select a desired input source (except TV). Then, you can select your desired **Input Label** with using Blue button. ► p.55

ie) In case of changing the input label using Blue button



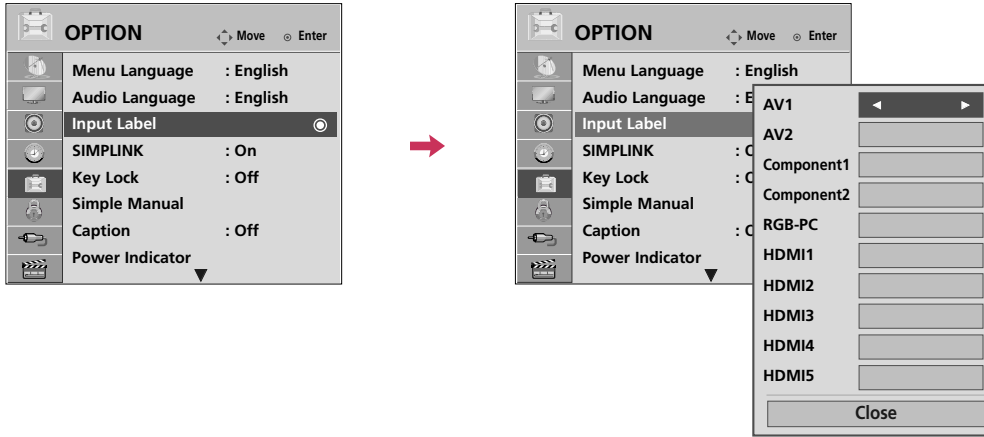
- When a new external device is connected, this popup menu is displayed automatically. If selecting **Yes**, you can select input source that you want to appreciate.
- But, when selecting "**SIMPLINK - On**", popup menu for HDMI input will not be displayed.












- **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.



With using OPTION menu

- 1   Select **OPTION**.
- 2   Select **Input Label**.
- 3   Select the source.
- 4  Select the label.
- 5  Return to the previous menu.
-  Return to TV viewing.

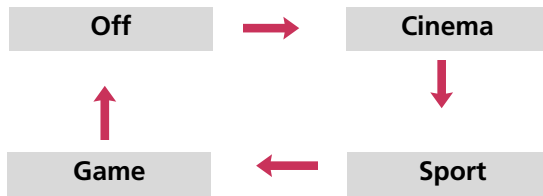
With using INPUT button

- 1   Select the source.
- 2   Select the label.
- 3  Return to the previous menu.
-  Return to TV viewing.

WATCHING TV / CHANNEL CONTROL

AV MODE

AV Mode toggles through preset Video and Audio settings.



- 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.

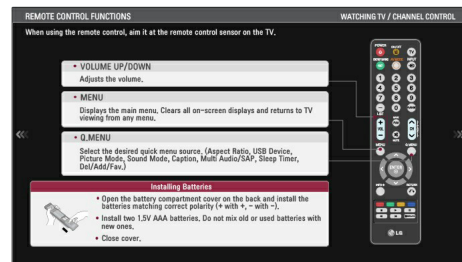
- 1 Press the **AV MODE** button repeatedly to select the desired source.
- 2

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.



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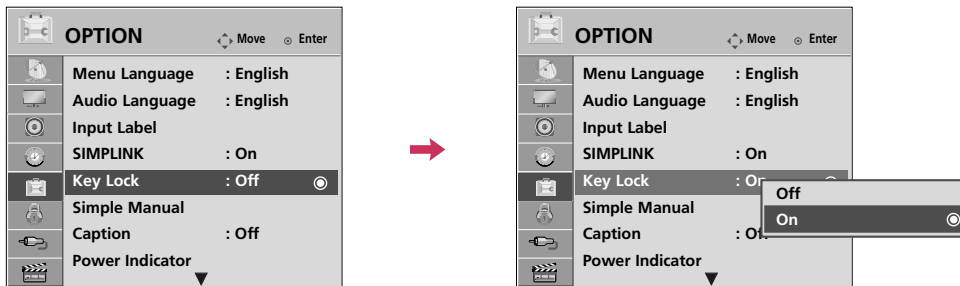
- 1 Select **OPTION**.
- 2 Select **Simple Manual**.









- 3 Select the part of the manual you want to see.
- 4 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   Select **OPTION**.
- 2   Select **Key Lock**
- 3   Select **On** or **Off**.
- 4  Return to the previous menu.
-  Return to TV viewing.

- In **Key Lock 'On'**, if the TV is turned off, press the ϕ / I, **INPUT, CH** (^ 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.

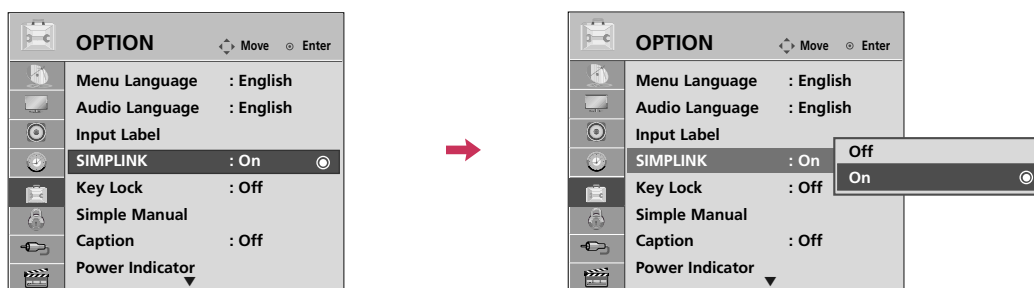
WATCHING TV / CHANNEL CONTROL

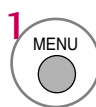
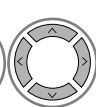

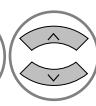

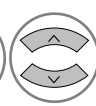




SIMPLINK allows you to control and play other AV devices connected with HDMI cable without additional cables and settings. This TV may work with devices with HDMI-CEC support, but only devices with the SIMPLINK logo are fully supported.

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

SIMPLINK is not supported by the HDMI IN 5 input.



-   Select **OPTION**.
-   Select **SIMPLINK**.
-   Select **On** or **Off**.
-  Return to the previous menu.
-  Return to TV viewing.

NOTE

- ▶ Connect the HDMI/DVI IN or HDMI IN terminal of the Media Box to the rear terminal (HDMI terminal) of the SIMPLINK device with an 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 Media Box to the DIGITAL AUDIO IN terminal on the back of the SIMPLINK device with an OPTICAL cable.


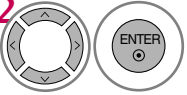
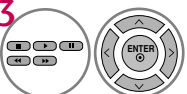
SIMPLINK Functions

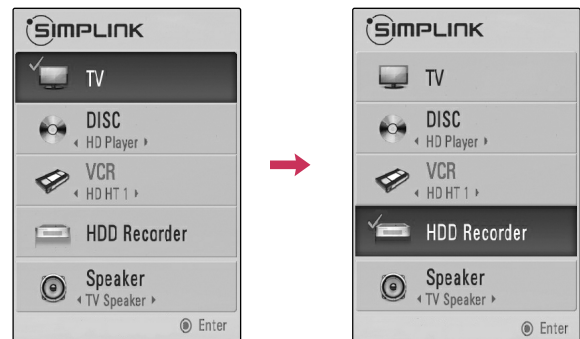
- **Direct Play:** After connecting AV devices to the Media Box, you can directly control the devices and play media without additional settings.
- **Select AV device:** Enables you to select one of the AV devices connected to the Media Box.
- **Disc playback:** Control connected AV devices by pressing the \wedge \vee \leftarrow \rightarrow , ENTER, \blacktriangleright , \blacksquare , \parallel , \blacktriangleleft and \blacktriangleright 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.

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 Media Box through a HDMI cable but does not support SIMPLINK, does not provide this function)

SIMPLINK Menu

-  Display **SIMPLINK** menu.
-  Select the desired device.
-  Control connected AV devices.



- TV viewing:** Switch to the previous TV channel regardless of the current mode.
- DISC playback:** Select and play discs. When multiple discs are available, the titles of discs are conveniently displayed at the bottom of the screen.
- VCR playback:** Control the connected VCR.
- HDD Recordings playback:** Control recordings stored in HDD.
- 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 connected (displayed in bright color)

USB

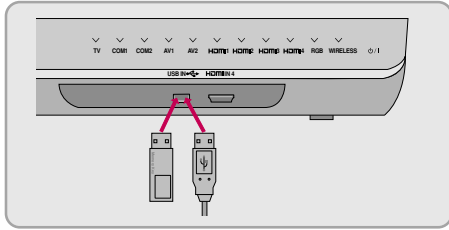
ENTRY MODES

When you connect a USB device, this pop up menu is displayed automatically.

When the Pop Up menu does not appear, you can select Photo List, Music List or Movie List in the USB menu.

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

- 1 Connect the USB device to the **USB IN** jacks on the Media Box.



■ This TV supports JPG, MP3 files, and HD DivX.

- 2 Select **PHOTO LIST**, **MUSIC LIST** or **MOVIE LIST**.



- 3



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**.

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.
- ▶ In case of several partitions or a card reader, up to four memory cards are concurrently recognizable.
- ▶ 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.
- ▶ 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.
- ▶ Data in a USB storage device cannot be deleted in the NTFS file system.
- ▶ 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 the USB device could be damaged. Data management is the consumer's responsibility and as a result, the manufacturer does not cover data damage.
- ▶ A USB storage device with several partitions may not work properly.
- ▶ If the USB memory device does not work properly, disconnect and reconnect it.
- ▶ Connect an external power source to a USB storage device if required.
- ▶ When using a USB extension cable, a USB hard disk without an external power source 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 application USB external hard disk.

PHOTO LIST

You can view .JPG files from USB storage devices.
The On-Screen Display on your model may be slightly different.

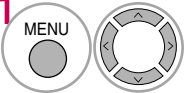
Supported photo file: *.JPG

- You can play JPG files only.
- Only baseline scan is supported among JPG (not progressive).
- Available JPG size: 64 pixel (width) x 64 pixel (height) to 15360 pixel (width) x 8640 pixel (height)

USB

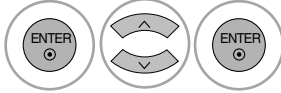
Screen Components

1



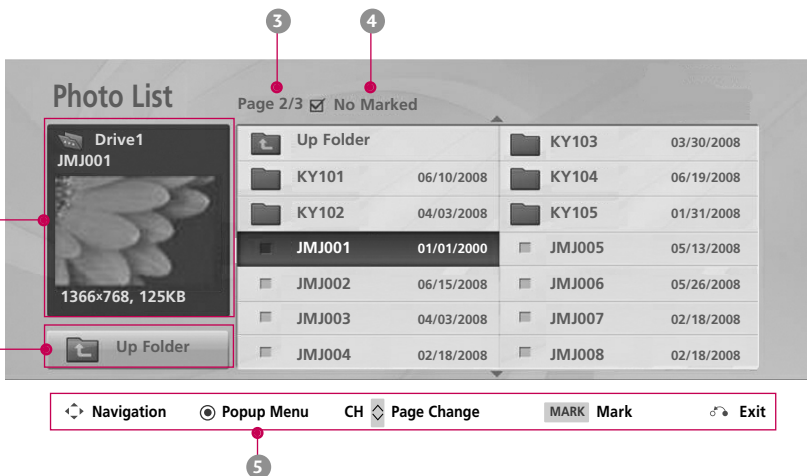
Select **USB**.

2



Select **Photo List**.

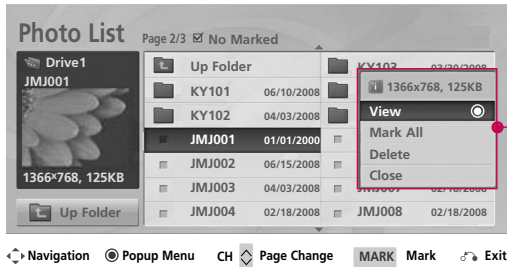
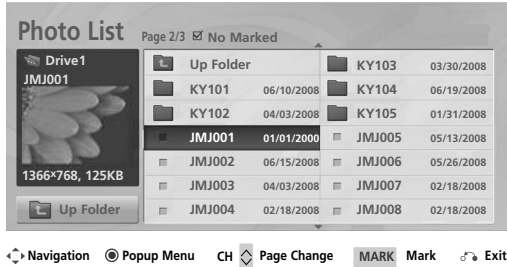
- ① Moves to upper level folder
- ② Preview: Display the thumbnail/folder name of the photo in the selected folder
- ③ Current page/Total pages
- ④ Total number of marked photos
- ⑤ Corresponding buttons on the remote control



The screenshot shows a 'Photo List' interface. At the top, it says 'Page 2/3' and 'No Marked'. Below this is a table of folders and files. A preview window on the left shows a photo of a flower with details: 'Drive1', 'JMJO01', and '1366x768, 125KB'. At the bottom, there is a navigation bar with buttons: 'Navigation', 'Popup Menu', 'CH', 'Page Change', 'MARK Mark', and 'Exit'.


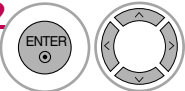

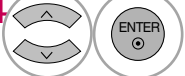
Up Folder		KY103	03/30/2008
KY101	06/10/2008	KY104	06/19/2008
KY102	04/03/2008	KY105	01/31/2008
JMJ001	01/01/2000	JMJ005	05/13/2008
JMJ002	06/15/2008	JMJ006	05/26/2008
JMJ003	04/03/2008	JMJ007	02/18/2008
JMJ004	02/18/2008	JMJ008	02/18/2008

Photo Selection and Popup Menu



When you select a file (not folder), this PopUp menu is displayed.

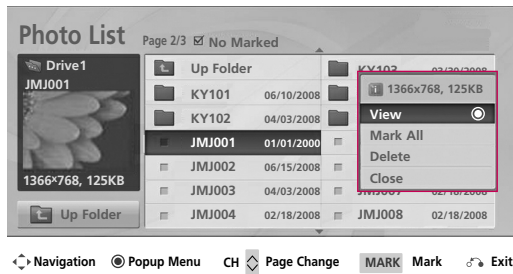
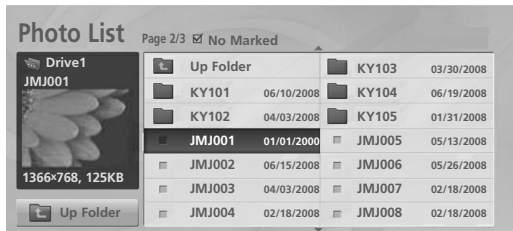
- ▶ **View:** Display the selected item.
- ▶ **Mark All:** Mark all photos on the screen.
- ▶ **Unmark All:** Deselect all marked photos.
- ▶ **Delete:** Delete the selected photo item.
- ▶ **Close:** Close the pop-up menu.

- 1  Select the target folder or drive.
- 2  Select the desired photos.
- 3  Show the Popup menu.
- 4  Select the desired option in the Popup menu.







- Use the **CH** ^ v button to navigation in the photo page.
- Use the **MARK** button to mark or unmark a photo. 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

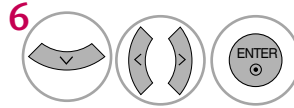
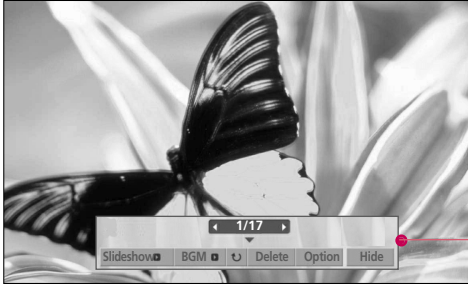
You can change the Photo List view so that it fills the screen. More operations are available in full screen mode.




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   Select the desired photos.
- 3  Show the Popup menu.
- 4  Select **View**.
- 5  The selected photo is displayed in full size.

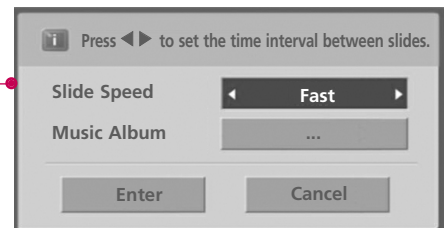
■ Use the CH   button to navigation in the photo page.



6 Select the **Slideshow**, **BGM**,  (**Rotate**), **Delete**, **Option**, or **Hide**.

- Use < > button to select the previous or next photo.
- Use ^ v < > button to select and control the menu on the full-sized screen.

- ▶ **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**.
- ▶ **BGM:** Listen to music while viewing photos in full size.
 - Set the BGM device and album in **Option**.
- ▶  (**Rotate**): Rotate photos.
 - Rotates the photo 90°, 180°, 270°, 360° clockwise.
 - Photo cannot be rotated if its width is greater than the available supported resolution height.
- ▶ **Delete:** Delete photos.
- ▶ **Option:** Set values for **Slide Speed** and **Music Album**.
 - Use ^ v < > button and **ENTER** button to set values. Then go to  and press **ENTER** to save the settings.
 - You cannot change **Music Album** while BGM is playing.
- ▶ **Hide :** Hide the menu on the full-sized screen.
 - To see the menu again on the full-sized screen, press **ENTER** button to display.



NOTE

- ▶ This TV will not be able to decode most JPG images saved using the Progressive option.

MUSIC LIST

You can use the Music List menu to play MP3 files from a USB storage device.
 This TV cannot play back copy-protected files.
 The On-Screen Display on your model may be slightly different.

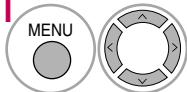
Supported music file: *.MP3
 Bit rate range 32 Kbps - 320 Kbps

- Sampling rate (Sampling Frequency)
 - MPEG1 layer 3: 32 kHz, 44.1 kHz, 48 kHz
 - MPEG2 layer 3: 16 kHz, 22.05 kHz, 24 kHz
 - MPEG2.5 layer 3: 8 kHz, 11.025 kHz, 12 kHz

USB

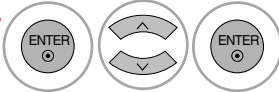
Screen Components

1



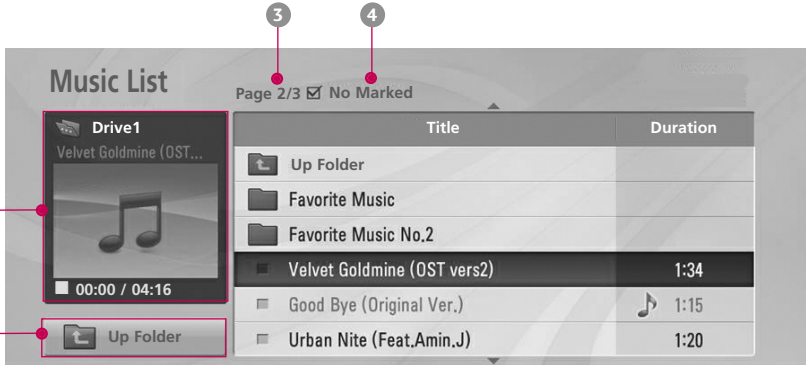
Select **USB**.

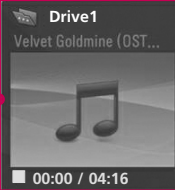
2



Select **Music List**.

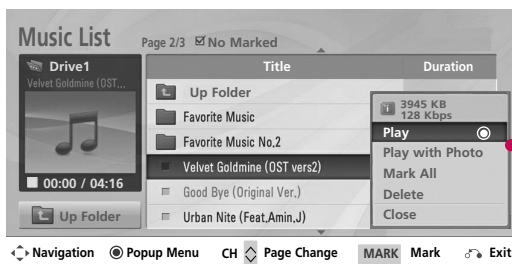
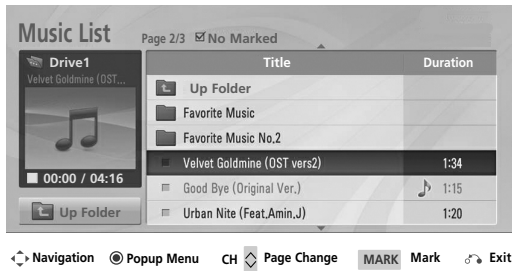
- ① Moves to upper level folder
- ② Preview: If any album jacket for the file exists, this jacket is displayed.
- ③ Current page/Total pages
- ④ Total number of marked musics
- ⑤ Corresponding buttons on the remote control




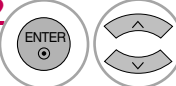

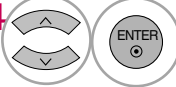
Music List		Title	Duration
Page 2/3 <input checked="" type="checkbox"/> No Marked			
<div style="border: 1px solid black; padding: 5px;"> <p>Drive1</p> <p>Velvet Goldmine (OST...</p>  <p>00:00 / 04:16</p> <p>Up Folder</p> </div>	Up Folder		
	Favorite Music		
	Favorite Music No.2		
	Velvet Goldmine (OST vers2)	1:34	
	Good Bye (Original Ver.)	1:15	
Urban Nite (Feat.Amin.J)	1:20		

Navigation
Popup Menu
CH Page Change
MARK Mark
Exit

Music Selection and Popup Menu



- ▶ **Play (During stop):** Play the selected song. Once a song finishes playing, the next selected one will be played. When there are no selected songs to play, the next one in the current folder will be played. If you go to a different folder and press the **ENTER** button, the current songs in playback will stop.
- ▶ **Play Marked:** Play the selected songs. Once a song finishes playing, the next selected one will be played automatically.
- ▶ **Stop Play (During playback):** Stop the playing the song.
- ▶ **Play with Photo:** Start playing the selected songs and then move to the Photo List.
- ▶ **Mark All:** Mark all songs in the folder.
- ▶ **Unmark All:** Deselect all marked song.
- ▶ **Delete (USB file only):** Delete the selected song.
- ▶ **Close:** Close the pop-up menu.


- 1  Select the target folder or drive.
- 2  Select the desired musics.
- 3  Show the Popup menu.
- 4  Select the desired Popup menu.

- Use the **CH** ^ v button to navigation in the music page.
- Use **MARK** button to mark or unmark a music file. If no music is marked, all the music in the folder will be played in sequence. When one or more music files are marked, the marked music files will be played in sequence. If you want to listen to only one song repeatedly, just mark that one file and play.

- The play information box (as shown below) will automatically move across the screen when there is no user input to prevent a fixed image remaining on the screen for a extended period of time.



! NOTE

- ▶ When music is playing,  is displayed in front of the music play time.
- ▶ A damaged or corrupted music file that does not play displays 00:00 as the play time.
- ▶ Music files with copy-protection will not play.
- ▶ Press **ENTER**, **■**, or **RETURN** button to stop the screen saver.



MOVIE LIST




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.

- Max bitrate of playable movie file: 20Mbps (Mega bit per second)
- Bit rate of audio format: within 32 ~ 320kbps (MP3)
- Supported subtitle format : *.smi, *.srt, *.sub (MicroDVD, SubViewer1.0/2.0), *.ass, *.ssa, *.txt (TMPlayer), *.psb(PowerDivx)

Screen Components

1   Select **USB**.

2    Select **Movie List**.




① Moves to upper level folder

② Current page/Total pages

③ Total number of marked movie

④ Corresponding buttons on the remote control

 Non-supported files are displayed using this graphic.

Navigation Popup Menu CH Page Change MARK Mark Exit

Supported DivX file

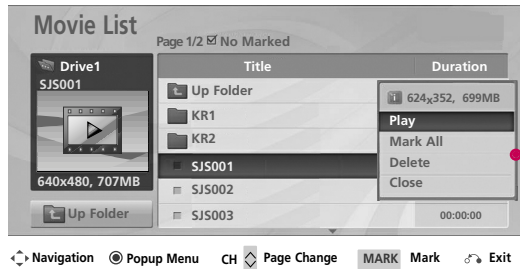
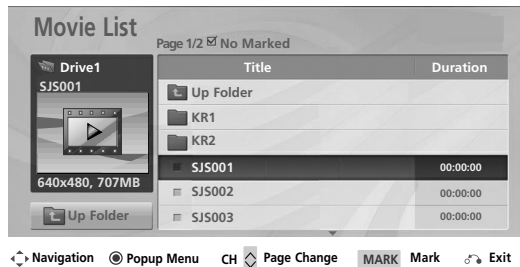
(* .avi/* .dat/* .divx/* .mkv/* .mp4/* .mpeg/* .mpg/* .tp/* .trp/* .ts/* .vob)

File Extension	Video Decoder	Audio Codec	Resolution
mpg, mpeg, vob	MPEG1, MPEG2	Dolby Digital, MPEG, MP3, LPCM	1920x1080P @25/30P 1280x720P @50/60P
dat	MPEG1	Dolby Digital, MPEG, MP3, LPCM	
tp, trp, ts	MPEG2, H.264/AVC	Dolby Digital, AAC, MPEG	
mp4	MPEG4 SP, MPEG4 ASP, 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-beta 1, Xvid 1.10-beta 2, H.264/AVC	Dolby Digital, HEAAC, AAC, MPEG, MP3, LPCM	
avi	MPEG 2, MPEG 4 SP, MPEG4 ASP, Divx 3.11, DivX 4, DivX 5, DivX 6, Xvid 1.00, Xvid 1.01, Xvid 1.02, Xvid 1.03, Xvid 1.10-beta 1, Xvid 1.10-beta 2, H.264/AVC	Dolby Digital, HEAAC, AAC, MPEG, MP3, LPCM	
mkv	H.264/AVC, MPEG 1, MPEG 2, MPEG 4 SP, MPEG4 ASP	Dolby Digital, HEAAC, AAC, MPEG, MP3, LPCM	
divx	MPEG 2, MPEG 4 SP, MPEG4 ASP, Divx 3.11, DivX 4, DivX 5, DivX 6, Xvid 1.00, Xvid 1.01, Xvid 1.02, Xvid 1.03, Xvid 1.10-beta 1, Xvid 1.10-beta 2, H.264/AVC	Dolby Digital, HEAAC, AAC, MPEG, MP3, LPCM	


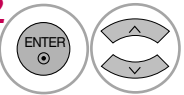

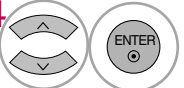
Precautions when playing the video files

- ▶ Some user-created subtitles may not work properly.
- ▶ Some special characters are not supported in subtitles.
- ▶ HTML tags are not supported in subtitles.
- ▶ Subtitles in languages other than the supported languages are not available.
- ▶ 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 player 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, either video or audio is outputted.
- ▶ Video with resolution higher than maximum resolution supported for each frame, cannot be guaranteed for smooth playback.
- ▶ Movie files other than the specified types and formats may not work properly.
- ▶ The movie file encoded by the GMC (Global Motion Compensation) is not supported.
- ▶ Only the files saved in ASCII Code is supported in subtitles.
- ▶ Only 250 Korean characters, 500 alphabets and 500 numbers are supported for each line of the subtitle.
- ▶ Only 10,000 of sync blocks can be supported within the subtitle file.
- ▶ We do not guarantee smooth playback of profiles encoded level 4.1 or higher in H.264.
- ▶ 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 the movie by Movie List function, you can adjust the picture by **ENERGY SAVING** and **AV MODE** button on the remote control. User setup for each picture mode does not operate.

Movie Selection and Popup Menu



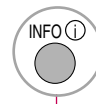
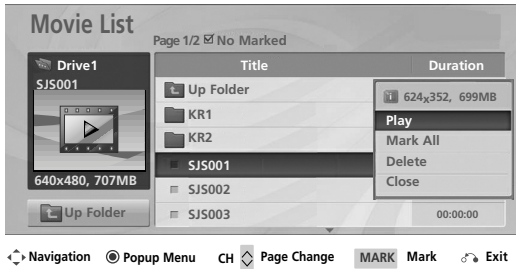
- ▶ **Play:** Play the selected file.
Divx Play is executed while the screen changes.
- ▶ **Play Marked:** Play the selected file. Once a movie finishes playing, the next selected one will be played automatically.
- ▶ **Mark All:** Mark all files in the folder.
- ▶ **Unmark All:** Deselect all marked movies.
- ▶ **Delete or Delete marked (FAT32 file system only):** Delete the selected file.
- ▶ **Close:** Close the pop-up menu.

- 1  Select the target folder or drive.
- 2  Select the desired movies.
- 3  Show the Popup menu.
- 4  Select the desired Popup menu.

- Use the **CH** ^ v button to navigation in the movie page.
- Use the **MARK** button to mark or unmark a movie file. When one or more movie files are marked, the marked movie files will be played in sequence.






Playing the Movie

You can adjust various method during the movie play.









Display the DivX Banner in the top of the screen.



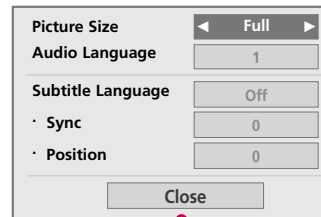
- 1  Select the target folder or drive.
- 2  Select the desired movies.
- 3  Show the Popup menu.
- 4  Select **Play**.
- 5  Display the current movie status progress bar in the bottom of the screen.

Using the remote control

-  Press it to rewind.
-  Press it to forward fast.
-  Displayed the still screen.
-  Stopped the screen.
-  Move to a specific frame forward or backward while playing a movie. A cursor indicating the position can be viewed on the screen. It may not work properly for some files while playing a movie.)
-  Displays a slow motion.

Option Menu Selection

During the movie play, the following options are available.




- ▶ **Picture Size:** Select the Full screen or Original size.
- ▶ **Audio Language:** Select the language.
But, the file with only one audio can not be selected.
- ▶ **Subtitle Language:** The subtitles can be turned on or off.
If there are two or more subtitles, you can select one of them.


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

- .**Sync:** When the video is not synchronized with the captions, it can be adjusted by 0.5 second.
- .**Position:** Move the location of the subtitle.

1  Select **Option**.

2  Select **Picture Size, Audio Language, Subtitle Language, Sync** or **Position**.

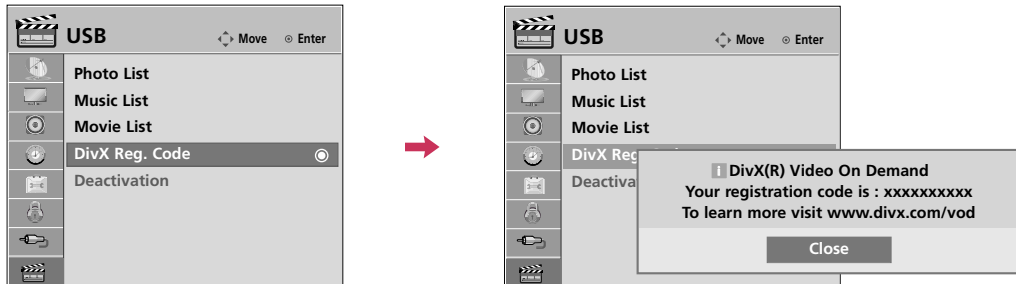
3  Select the desired option.








4  Return to movie viewing

DIVX REGISTRATION CODE

Confirm the DivX registration code number of the TV. Using the registration number, movies can be rented or purchased at www.divx.com/vod.

With a DivX registration code from other TV, playback of rented or purchased DivX file is not allowed. (Only DivX files matched with the registration code of the purchased TV are playable.)



- 1   Select **USB**.
- 2   Select **DivX Reg. Code**.
- 3  Display **DivX Reg. Code**.
- 4  Return to the previous menu.
-  Return to TV viewing.

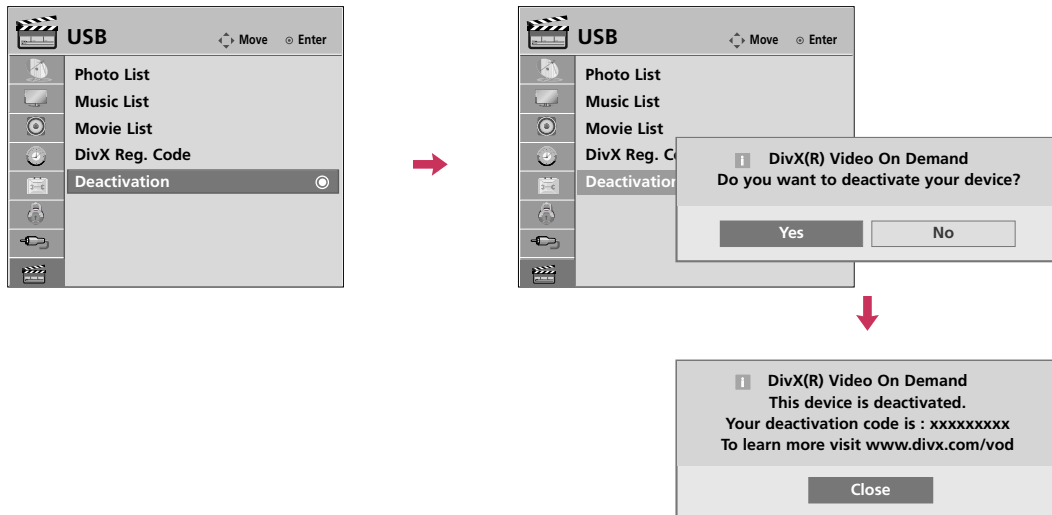
NOTE

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

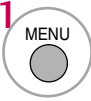
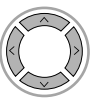



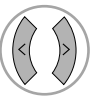



DEACTIVATION

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

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



USB

-   Select **USB**.
-   Select **Deactivation**.
-   Select **Yes**.
-  Display **Deactivation**.
-  Return to the previous menu.
-  Return to TV viewing.

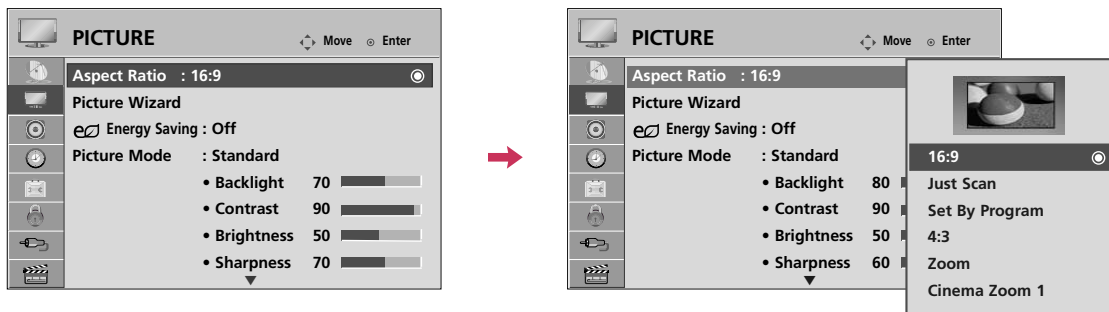
PICTURE CONTROL









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.

HDMI/RGB-PC input only support 4:3 or 16:9 aspect ratio. But you can select all aspect ratios in HDMI-PC 1920X1080 input.

You can select a different aspect ratio depending on input source (analog broadcasting, digital broadcasting, aux).



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

■ You can also adjust **Aspect Ratio** in the **Q.MENU**.

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/CADTV/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

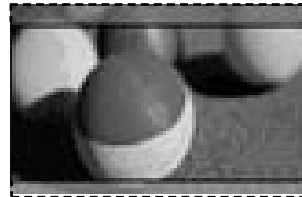
Choose 4:3 when you want to view a picture with an original 4:3 aspect ratio.



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.

- When adjusting in Q.MENU menu,
 - a. < or > button: Adjust proportion of Zoom.
 - b. ^ or v button: Move the image on the screen.



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.

- < or > button: Adjust proportion of Cinema Zoom. The adjustment range is 1-16.
- ^ or v button: Move the image on the screen.



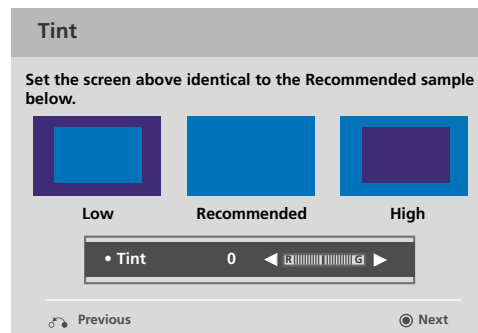
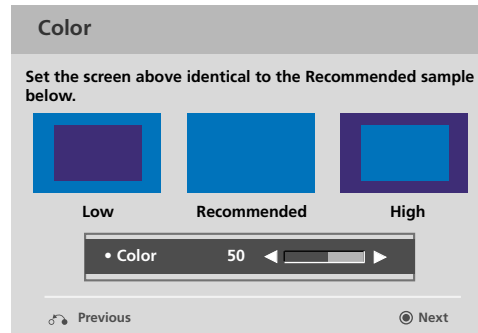
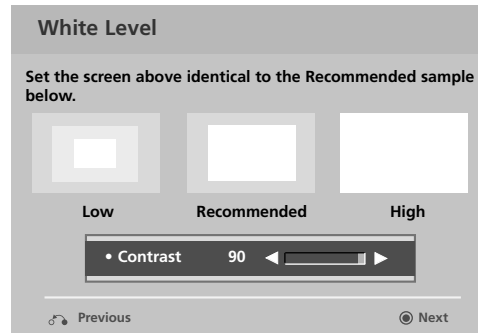
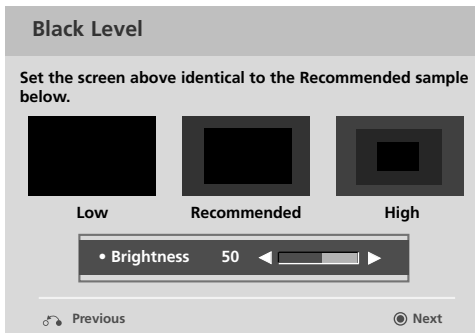
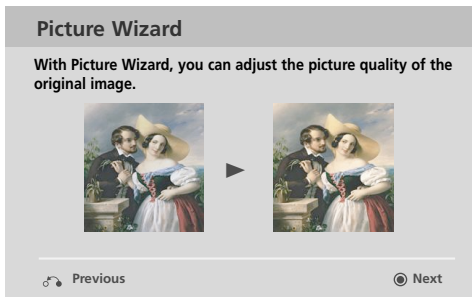
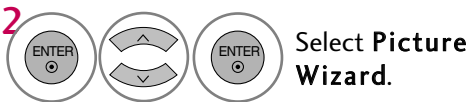
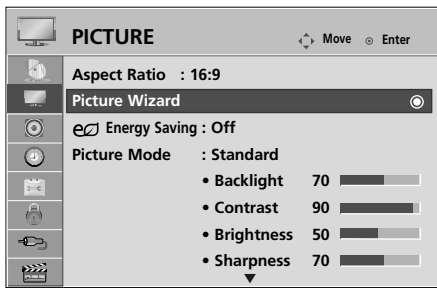
PICTURE CONTROL

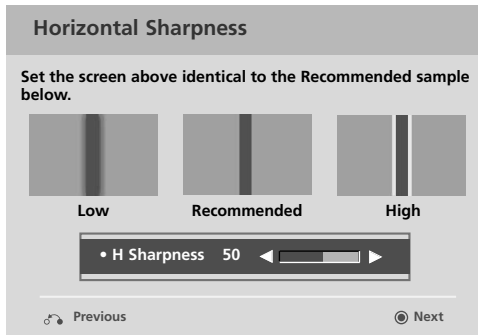
PICTURE WIZARD

This feature lets you adjust the picture quality of the original image.

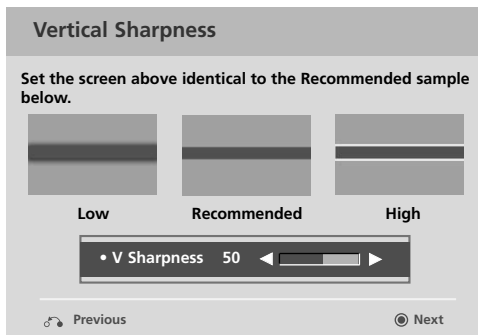
Use this to calibrate the screen quality by adjusting the Black and White Level etc. You can calibrate the screen quality by easily following each step.

When you adjust the image to **Low**, **Recommended** or **High**, you can see the example of the changes you made.

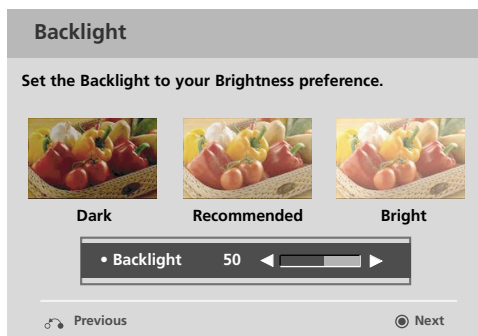




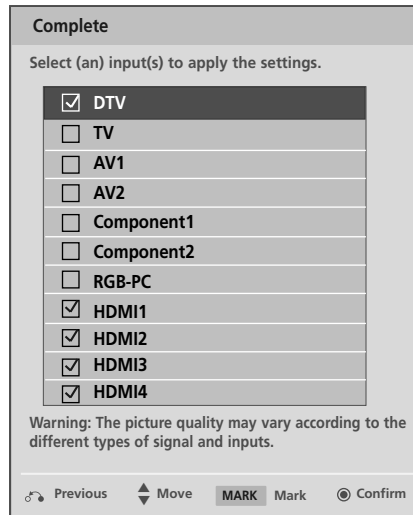
8   **Adjust Horizontal Sharpness.**





9   **Adjust Vertical Sharpness.**

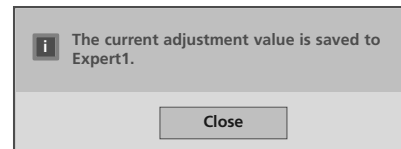



10   **Adjust Backlight.**



11   **Select input source to apply the settings.**

12  **Save.**



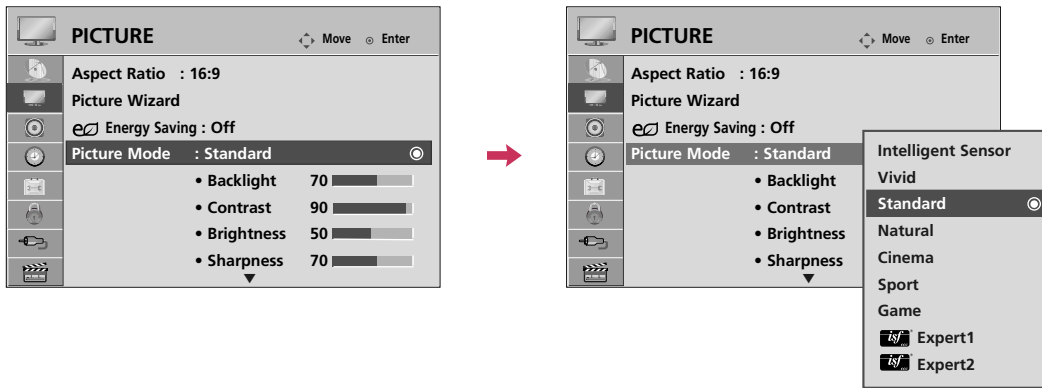
13  **Finish the Picture Wizard.**









- If you stop the setting 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.
- **Picture Wizard** setup value is not applied for the HDMI5 input source.

PICTURE CONTROL

PRESET PICTURE SETTINGS (PICTURE MODE)

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

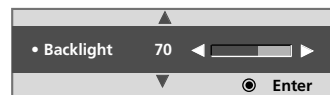
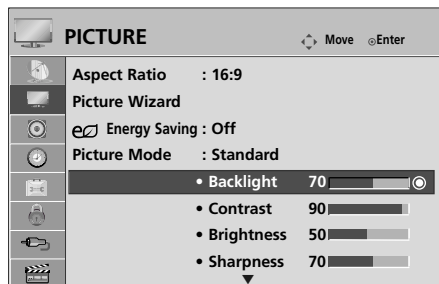














-   Select **PICTURE**.
-   Select **Picture Mode**.
-   Select **Intelligent Sensor, Vivid, Standard, Natural, Cinema, Sport, or Game**.
-  Return to the previous menu.
-  Return to TV viewing.

- When selecting **Intelligent Sensor**, **Energy Saving** is changed to **Auto** automatically.
- When selecting **Intelligent Sensor**, it is changed contrast, brightness, sharpness, color and tint automatically.
- **Vivid, Standard, Natural, Cinema, Sport, and Game** Settings are preset for the optimum picture quality at the factory.
- **Intelligent Sensor**: The most suitable picture is automatically adjusted according to the surrounding conditions.
- **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.
- **Natural**: This is the mode to display the most natural screen status.
- **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**.

MANUAL PICTURE ADJUSTMENT - USER MODE

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



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

- When adjusting Energy Saving, **Backlight** function is disabled.
- **Backlight:** This function adjusts the brightness of LCD panel, to control the brightness of the screen. Adjusting the backlight is recommended when setting the brightness of the set. 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.




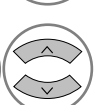

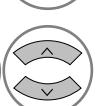
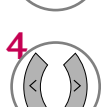

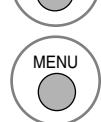
PICTURE CONTROL

PICTURE IMPROVEMENT TECHNOLOGY

You can calibrate the screen for each Picture Mode or set the video value according to the special video screen. You can set the video seeing differently for each input.

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

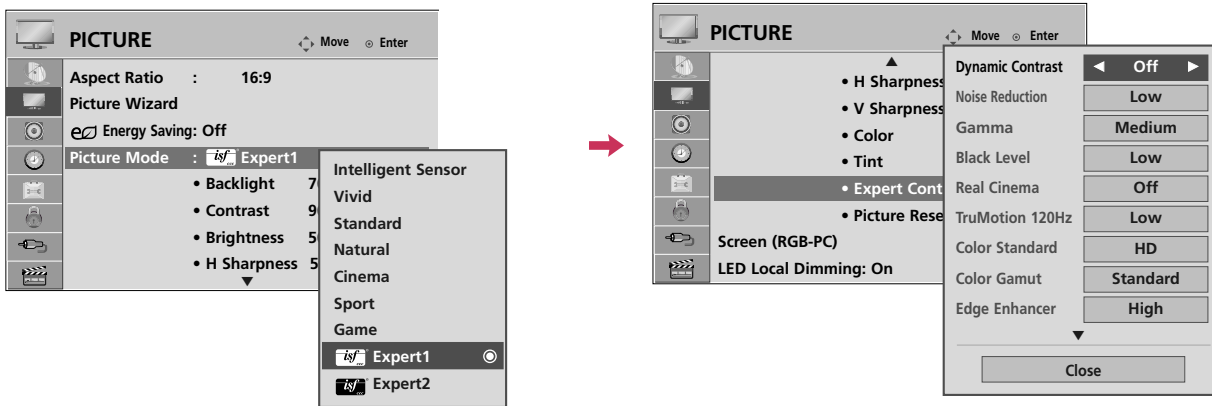

















-   Select **PICTURE**.
-   Select **Advanced Control**.
-   Select your desired options.
-  Make appropriate adjustments.
-  Return to the previous menu.
-  Return to TV viewing.

EXPERT PICTURE CONTROL

By segmenting categories, **Expert1** and **Expert2** provide more categories which users can set as they see fit, offering the optimal picture quality for users.

This may also be used by a professional to help optimize the TV performance in the environment the TV is in.



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

PICTURE CONTROL

Color Temperature	<ul style="list-style-type: none"> ■ Set to warm to enhance hotter colors such as red, or set to cool to enhance cooler colors such as blue.
Dynamic Contrast	<ul style="list-style-type: none"> ■ Adjusts the contrast to keep it at the best level according to the brightness of the screen. The picture is improved by making bright parts brighter and dark parts darker.
Dynamic Color	<ul style="list-style-type: none"> ■ Adjusts screen colors so that they look livelier, richer and clearer. This feature enhances hue, saturation and luminance so that red, blue, green and white look more vivid.
Noise Reduction	<ul style="list-style-type: none"> ■ Reduces screen noise without compromising video quality.
Gamma	<p><i>Low : Make dark and middle gray level area of the picture brighter.</i> <i>Medium: Express original picture levels.</i> <i>High: Make dark and middle gray level area of the picture darker.</i></p> <ul style="list-style-type: none"> ■ You can adjust brightness of dark area and middle gray level area of the picture.
Black Level	<p><i>Low: The reflection of the screen gets darker.</i> <i>High: The reflection of the screen gets brighter.</i></p> <ul style="list-style-type: none"> ■ Set black level of the screen to proper level. ■ This function is available in the following modes: AV (NTSC-M), HDMI or Component.
Eye Care	<ul style="list-style-type: none"> ■ Adjust the brightness of the screen to prevent the screen from being too bright. Dims extremely bright pictures. ■ This feature is disabled in “Picture Mode-Vivid, Cinema, Intelligent Sensor”.
Real Cinema	<ul style="list-style-type: none"> ■ Makes video clips recorded in film look more natural by eliminating judder effect. ■ DVD and Blu-ray movies are filmed at 24 frames per second (fps). With LG Real Cinema, every frame is consistently processed 5 times in 1/24 of a second producing 120 fps with TruMotion or 2 times in 1/24 of a second producing 48 fps without TruMotion, thus totally eliminating the judder effect. ■ This function can work when TruMotion is off.
TruMotion	<p><i>High: Provides smoother picture movement.</i> <i>Low: Provides smooth picture movement. Use this setting for standard use.</i> <i>Off: Use this setting when “High” and “Low” settings result in noise.</i></p> <ul style="list-style-type: none"> ■ 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”.

Color Gamut	<p><i>Standard: Displays standard set of colors.</i> <i>Wide: Increase number of colors used.</i></p> <ul style="list-style-type: none"> ■ Maximize the utilization of color to increase color quality.
Edge Enhancer	<ul style="list-style-type: none"> ■ Show clearer and distinctive yet natural edges in of the video. ■ This function is enabled in "Picture Mode - Cinema, Expert".
Color Standard	<ul style="list-style-type: none"> ■ Convert the color of a different video to HD color.
Color Filter	<ul style="list-style-type: none"> ■ This is the function to filter the specific colors of the video. You can use the RGB filter to set color saturation and hue accurately.
xvYCC	<p><i>*This feature is not available for all models.</i></p> <ul style="list-style-type: none"> ■ This is the function to express richer color. ■ This feature represents rich color as much as conventional video signal. ■ This function is enabled in "Picture mode - Cinema, Expert" when xvYCC signal is inputted through HDMI.
Expert Pattern	<ul style="list-style-type: none"> ■ This is the pattern necessary for expert adjustment. ■ This function is enabled in "Picture Mode - Expert" when you watch DTV.
White Balance	<ul style="list-style-type: none"> ■ Adjusts the overall color of the screen by changing the color of white. <ol style="list-style-type: none"> Method : 2 Points <ul style="list-style-type: none"> - Pattern: Inner, Outer - Red/Green/Blue Contrast, Red/Green/Blue Brightness: The adjustment range is -50 - +50. Method : 10 Point IRE <ul style="list-style-type: none"> - Pattern: Inner, Outer - IRE (Institute of Radio Engineers) is the unit to display the size of the video signal and can be set among 10, 20, 30 - 100. You can adjust Red, Green or Blue according to each setting. - Luminance: This function displays calculated luminance value for 2.2 gamma. You can input luminance value you want at 100 IRE, than 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.
Color Management System	<ul style="list-style-type: none"> ■ As the 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. <p>Adjusts Red/Green/Blue/Yellow/Cyan, Magenta.</p> <ul style="list-style-type: none"> - Red/Green/Blue/Yellow/Cyan, Magenta Color: The adjustment range is -30 - +30. - Red/Green/Blue/Yellow/Cyan, Magenta Tint: The adjustment range is -30 - +30. - This feature is disable in RGB-PC and HDMI-PC mode.
OPC	<p><i>*This feature is not available for all models.</i></p> <ul style="list-style-type: none"> ■ As the technology to reduce the power consumption while keeping the same brightness, this has the effect of reducing power consumption, improvement in contrast.

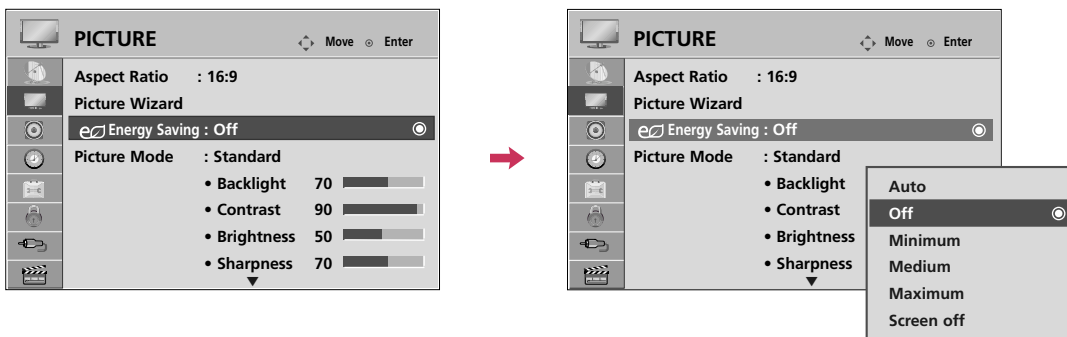
PICTURE CONTROL


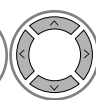

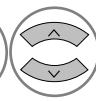

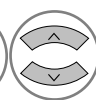


ENERGY SAVING

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

The default factory setting complies with the **Energy Star** requirements and is adjusted to the comfortable level to be viewed at home.

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

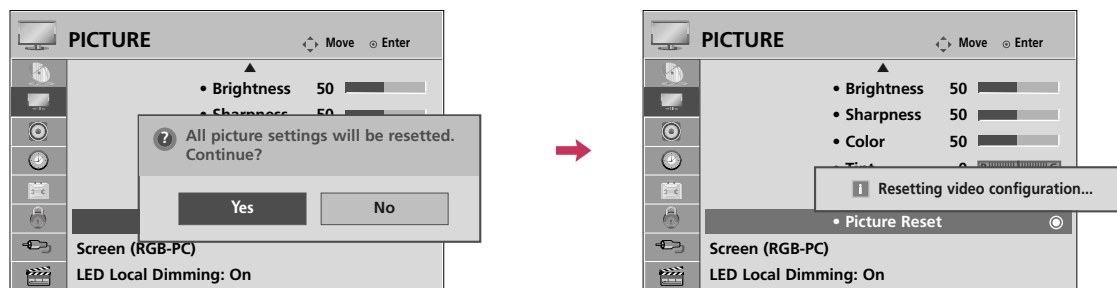










-   Select **PICTURE**.
-   Select **Energy Saving**.
-   Select **Auto, Off, Minimum, Medium, Maximum, or Screen Off**.
-  Return to the previous menu.
-  Return to TV viewing.

- When selecting **Screen off**, TV will turn off after 3 seconds.
- If you adjust “**Energy Saving-Auto, Minimum, Medium, Maximum**”, **Backlight** feature will not work.
- When selecting **Auto**, **Backlight** is automatically adjusted through **Intelligent sensor** according to the surrounding conditions.
- Press the **ENERGY SAVING** button repeatedly to select the appropriate Energy Saving setup.

PICTURE RESET

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

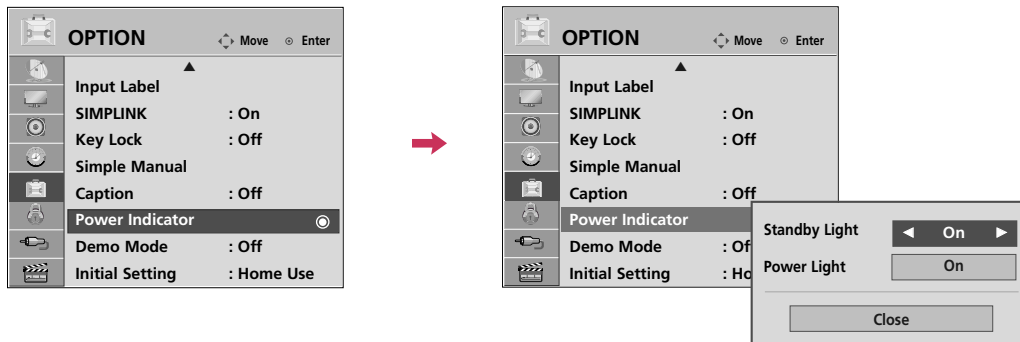












- 1   Select **PICTURE**.
- 2   Select **Picture Reset**.
- 3   Select **Yes**.
- 4  Initialize the adjusted value.
- 5  Return to TV viewing.

PICTURE CONTROL

POWER INDICATOR

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

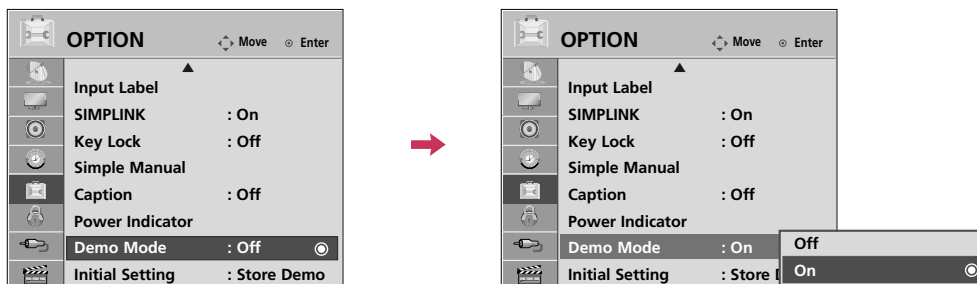








-   Select **OPTION**.
-   Select **Power Indicator**.
-   Select **Standby Light** or **Power Light**.
-   Select your desired options.
-  Return to the previous menu.
-  Return to TV viewing.


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

DEMO MODE

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



-   Select **OPTION**.
-   Select **Demo Mode**.
-   Select **On** to show the various feature of the TV.

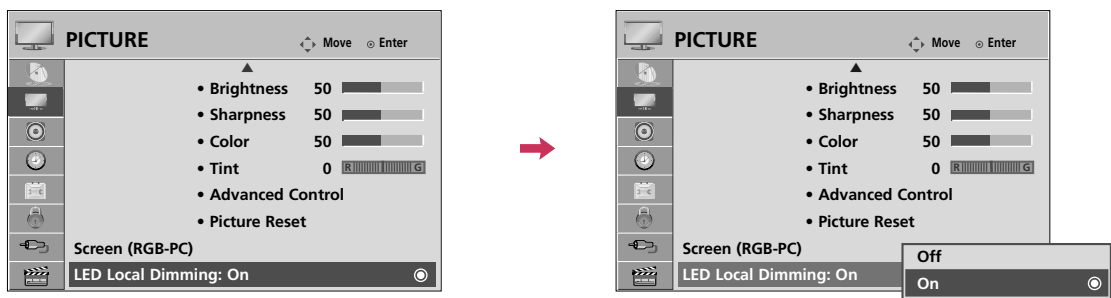
-  Return to TV viewing.
After a while, **Demo Mode** starts.
If you want to stop the demo, press any button (Except VOL +, - and MUTE button).


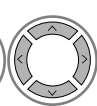

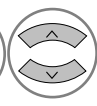

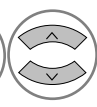


■ This feature is disabled in “Initial Setting-Home Use”.

PICTURE CONTROL

LED LOCAL DIMMING - For 55LHX

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



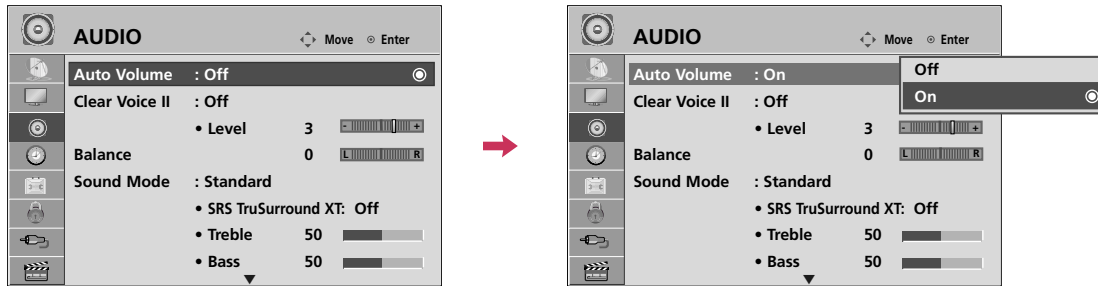
-   Select **PICTURE**.
-   Select **LED Local Dimming**.
-   Select **On** or **Off**.
-  Return to the previous menu.
-  Return to TV viewing.









SOUND & LANGUAGE CONTROL

AUTO VOLUME LEVELER (AUTO VOLUME)

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

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

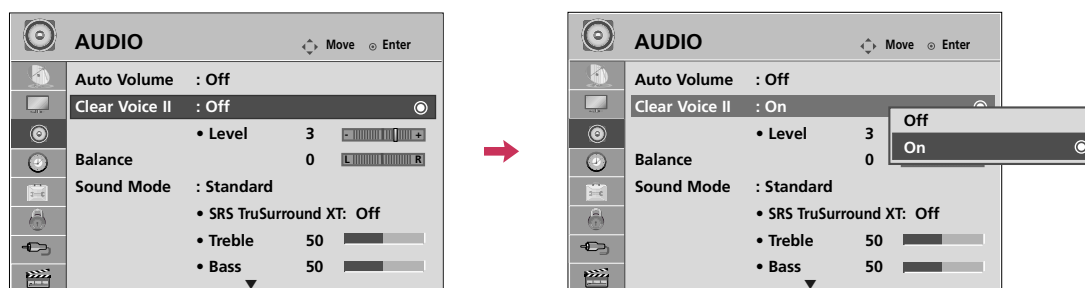


-   Select **AUDIO**.
-   Select **Auto Volume**.
-   Select **On** or **Off**.
-  Return to the previous menu.
-  Return to TV viewing.

SOUND & LANGUAGE CONTROL

CLEAR VOICE II

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




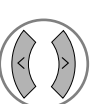
1   Select **AUDIO**.


2   Select **Clear Voice II**.


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

Adjustment for Clear Voice Level With selecting **On**

4   Select **Level**.

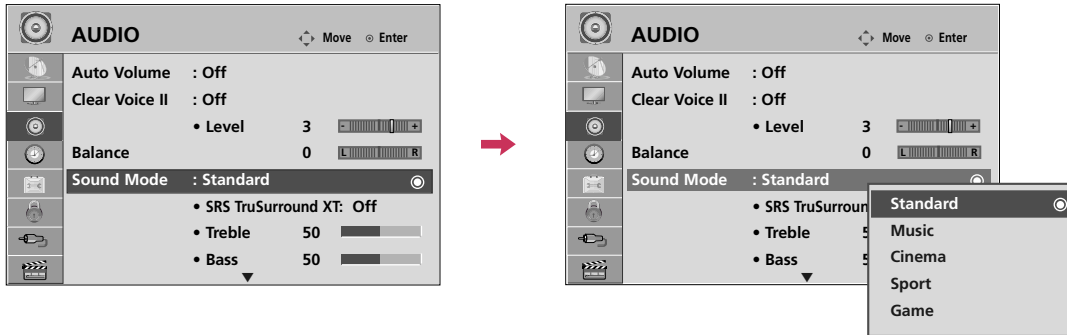
5   Make appropriate adjustments.









6  Return to the previous menu.

 Return to TV viewing.

PRESET SOUND SETTINGS (SOUND MODE)

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



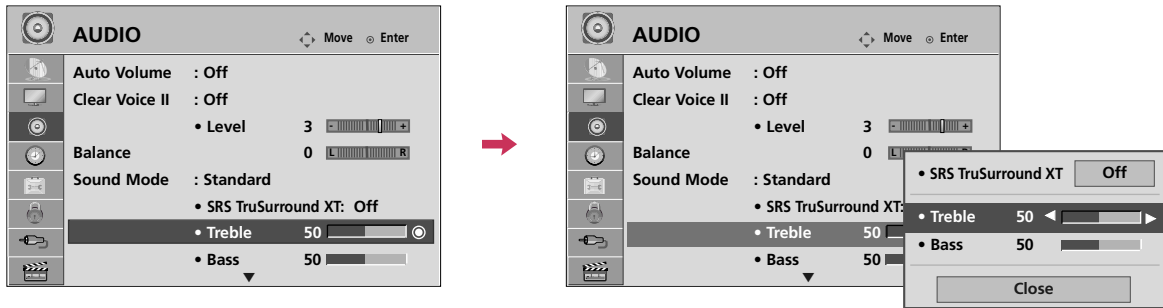
-   Select **AUDIO**.
-   Select **Sound Mode**.
-   Select **Standard, Music, Cinema, Sport, or Game**.
-  Return to the previous menu.
-  Return to TV viewing.







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







SOUND & LANGUAGE CONTROL

SOUND SETTING ADJUSTMENT - USER MODE

Adjust the sound to suit your taste and room situations.











- 1   Select **AUDIO**.
- 2   Select **Sound Mode**.
- 3   Select **Standard, Music, Cinema, Sport, or Game**.

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

SRS TRUSURROUND XT

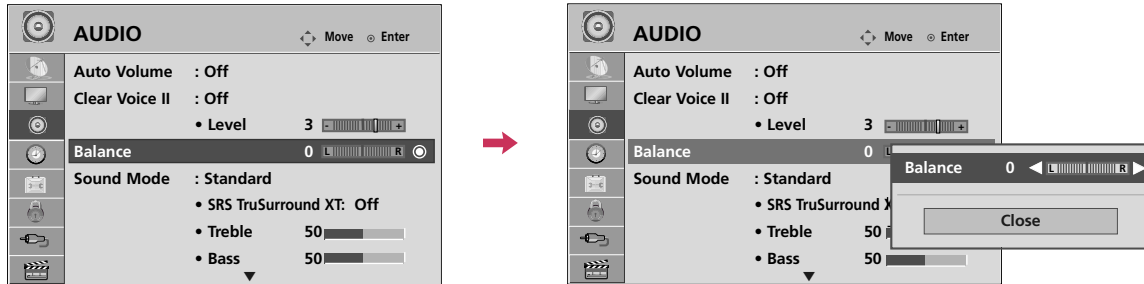
Select this option to sound realistic.









- 1   Select **AUDIO**.
- 2   Select **SRS TruSurround XT**.
- 3   Select **On or Off**.
- 4  Return to the previous menu.
-  Return to TV viewing.

- If sound quality or volume is not at the level you want, it is recommended to use a separate home theater system or amp to cope with different user environments.
- If you select “**Clear Voice II-On**”, **SRS TruSurround XT** feature will not work.
- **SRS TruSurround XT**: TruSurround XT is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers.

BALANCE

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



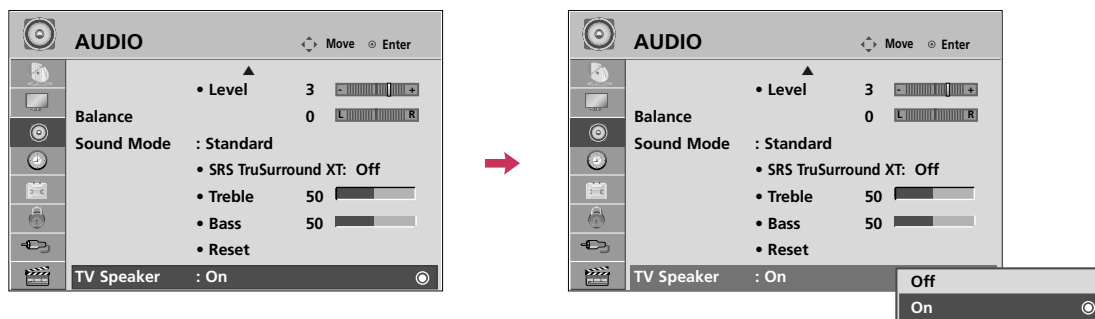
- 1   Select **AUDIO**.
- 2   Select **Balance**.
- 3   Make appropriate adjustments.
- 4  Return to the previous menu.
-  Return to TV viewing.

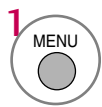




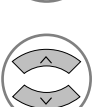

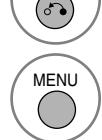
SOUND & LANGUAGE CONTROL

TV SPEAKERS ON/OFF SETUP

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

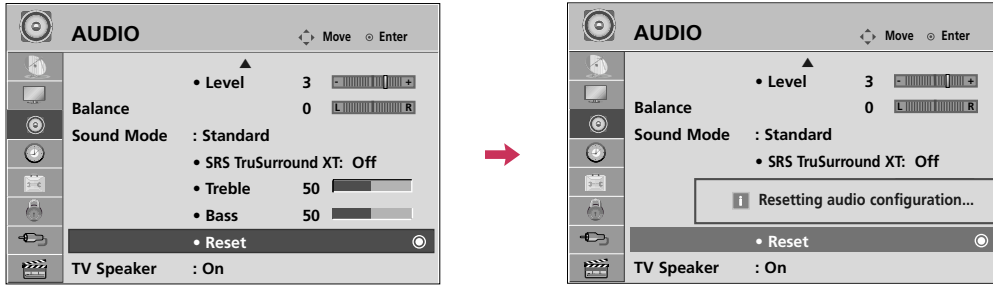
In **AV**, **Component**, **RGB** and **HDMI** with HDMI to DVI cable, the TV speaker can be operational even when there is no video signal.



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


AUDIO RESET


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



1   Select **AUDIO**.

2   Select **Reset**.

3  Initialize the adjusted value.

4  Return to TV viewing.





SOUND & LANGUAGE CONTROL

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

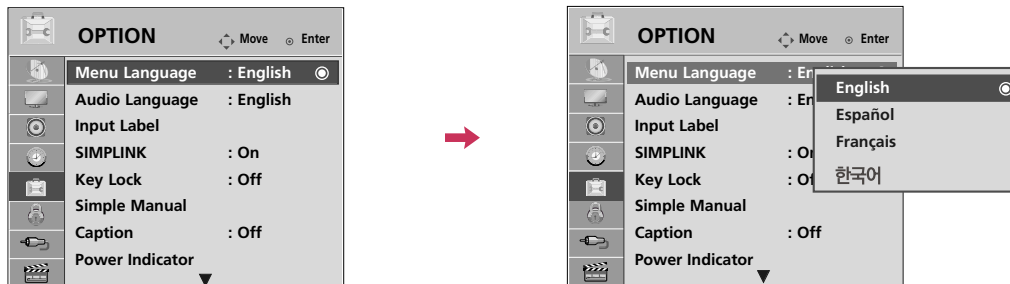
-   Select **SAP**.
-  Select **Mono, Stereo, or SAP**.
-  Return to TV viewing.









Digital TV

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

ON-SCREEN MENUS LANGUAGE SELECTION

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



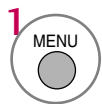


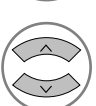

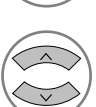

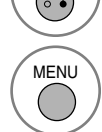
- 1   Select **OPTION**.
- 2   Select **Menu Language**.
- 3   Select your desired language.
From this point on, the on-screen menus will be shown in the selected language.
- 4  Return to the previous menu.
-  Return to TV viewing.

SOUND & LANGUAGE CONTROL

AUDIO LANGUAGE

This feature operates only in DTV/CADTV mode.

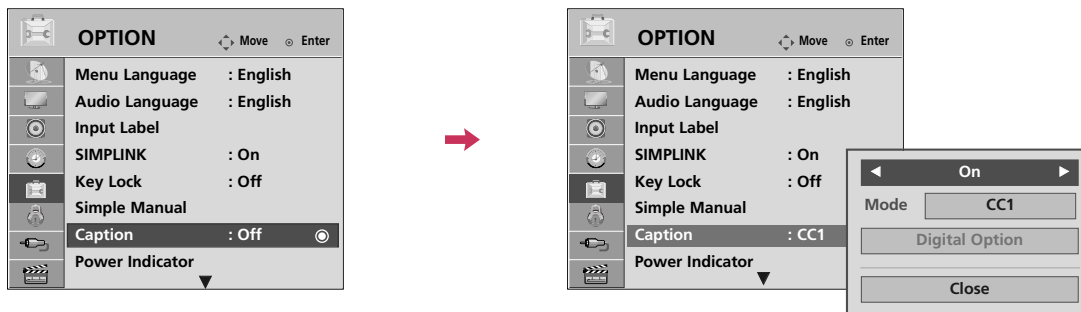












-   Select **OPTION**.
-   Select **Audio Language**.
-   Select your desired language.
-  Return to the previous menu.
-  Return to TV viewing.

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

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

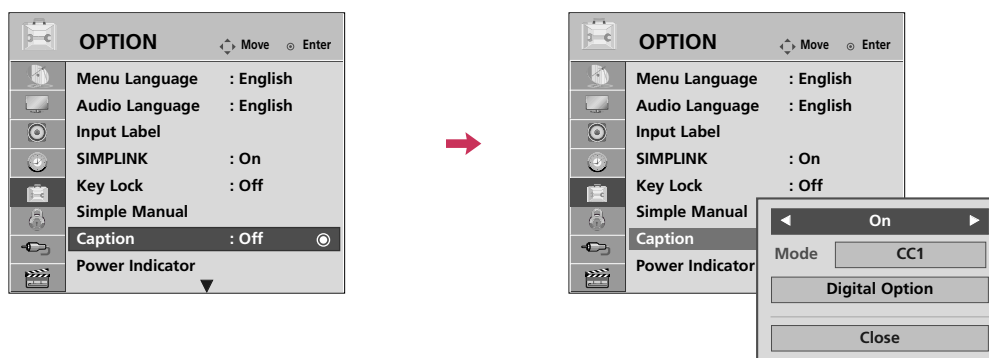
SOUND & LANGUAGE CONTROL











Digital Broadcasting System Captions

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

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

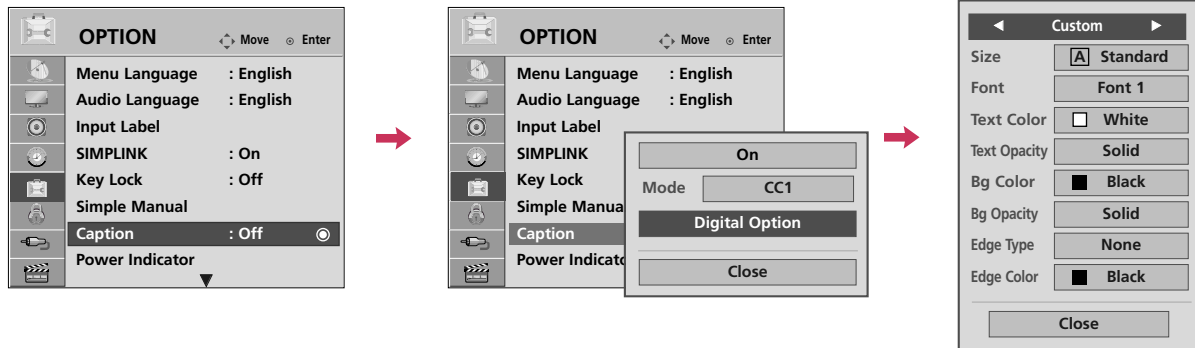
This function is only available when **Caption Mode** is set **On**.



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

Caption Option

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





1   Select **OPTION**.


2   Select **Caption**


3   Select **On**.

4   Select **Digital Option**.

5   Select **Custom**.

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

7  Return to the previous menu.

 Return to TV viewing.

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

TIME SETTING

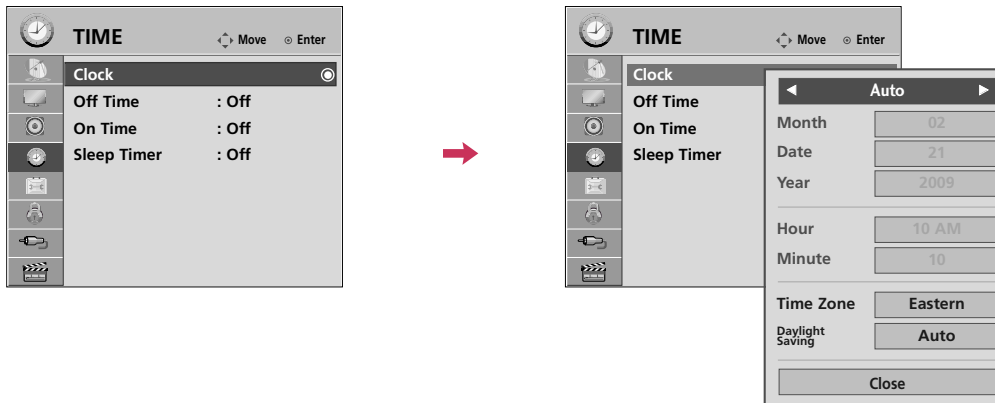
CLOCK SETTING













Auto Clock Setup

The time is set automatically from a digital channel signal.

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

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

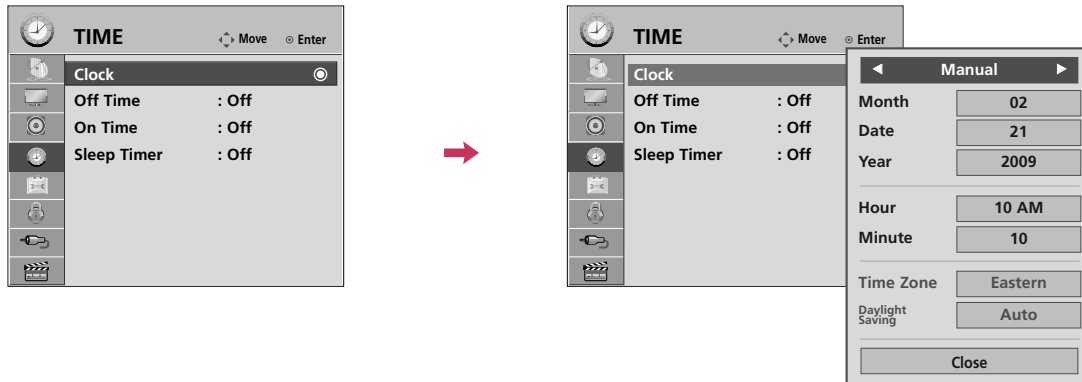












- 1   Select **TIME**.
- 2   Select **Clock**.
- 3   Select **Auto**.
- 4   Select your viewing area time zone.
 - U.S.A: **Eastern, Central, Mountain, Pacific, Alaska, or Hawaii.**
 - Canada: **Eastern, Central, Mountain, Pacific, New F.land, or Atlantic.**
- 5   Select **Auto, Off, or On** (depending on whether or not your viewing area observes Daylight Saving time).
- 6  Return to the previous menu.
-  Return to TV viewing.

Manual Clock Setup

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

If the Media Box is unplugged once or turn off with the AC power control switch on the Media Box, reset the **Clock** function.



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

TIME SETTING

AUTO ON/OFF TIME SETTING

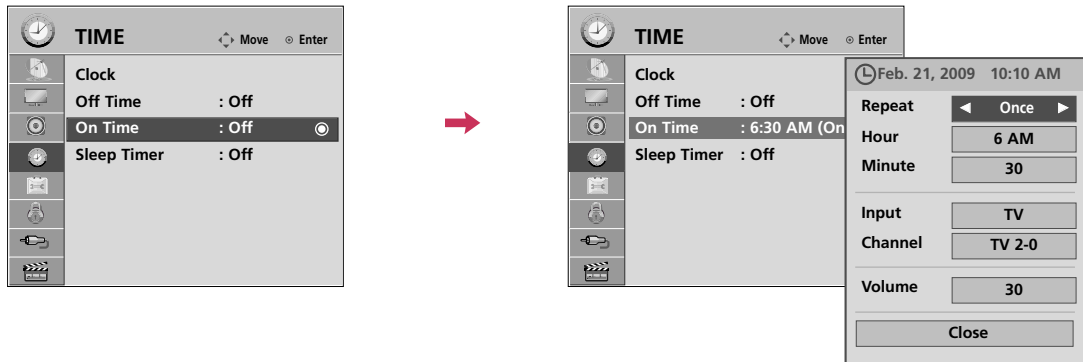
This function operates only if the current time has been set.

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.

If you turn the Media Box or TV off using the main power switch after setting **On Time**, the **On Time** function will not work because the main power is off.



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

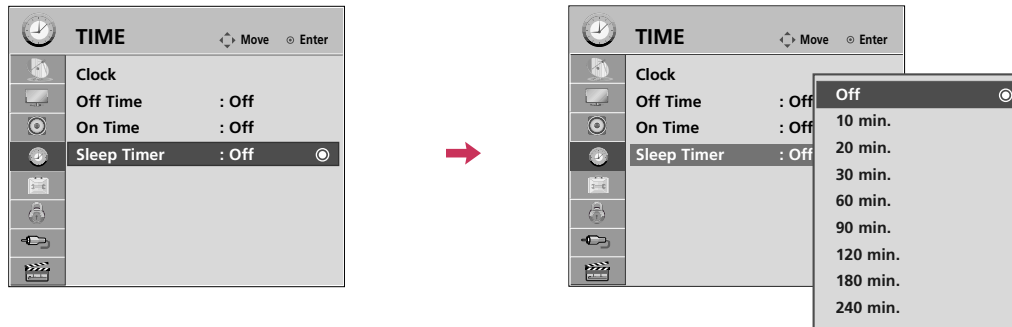
- To cancel **On/Off Time** function, select **Off**.
- Only for **On Time** function

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

SLEEP TIMER SETTING



The Sleep Timer turns the TV and Media Box off at the preset time.


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




1   Select **TIME**.

2   Select **Sleep Timer**.

3   Make appropriate adjustments.

4  Return to the previous menu.

 Return to TV viewing.

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

PARENTAL CONTROL / RATINGS

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

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

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

V-Chip rating and categories

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

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

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

SET PASSWORD & LOCK SYSTEM

Setting up Your Password

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



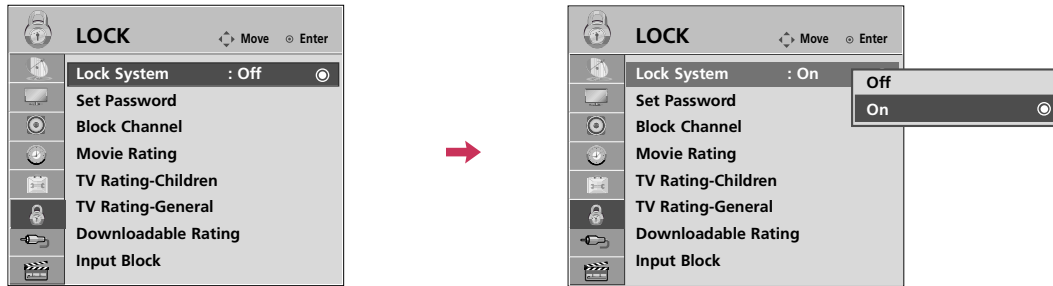
1 MENU Select LOCK.



2 Input the password.


- Enter the password as requested.
- The TV is set up with the initial password "0-0-0-0".

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

5  Return to the previous menu.

 Return to TV viewing.

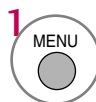
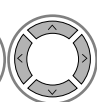

■ When you select **On**, the Lock System is enable.


PARENTAL CONTROL / RATINGS

Set Password


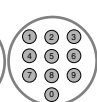
Change the password by inputting a new password twice.





1    Select **LOCK**.

2  Input the password.

3  Select **Set Password**.

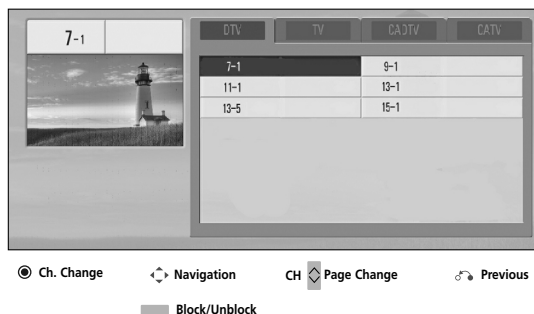
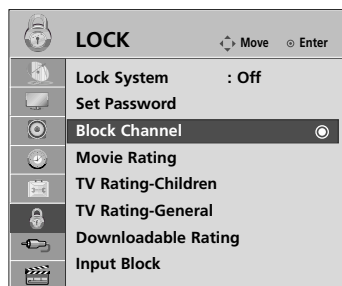
4   Choose any 4 digits for your new password.
As soon as the 4 digits are entered, re-enter the same 4 digits on the **Confirm**.

5  Return to the previous menu.

 Return to TV viewing.

CHANNEL BLOCKING

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



1 Select **LOCK**.

2 Input the password.

3 Select **Block Channel**.

4 Select a channel to block or unblock.

5 Block or unblock a channel.

6 Return to the previous menu.

Return to TV viewing.

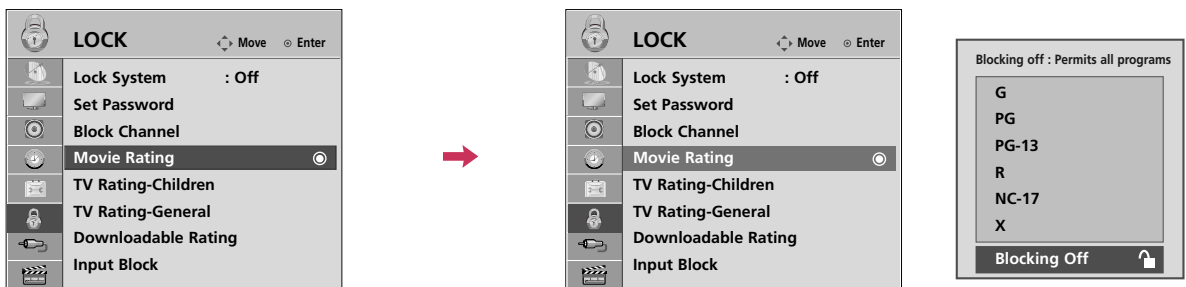
■ If a channel is locked, enter the password to unlock it temporarily.

PARENTAL CONTROL / RATINGS

MOVIE & TV RATING

Movie Rating (MPAA) - For USA

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



1 Select **LOCK**.

2 Input the password.

3 Select **Movie Rating**.

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

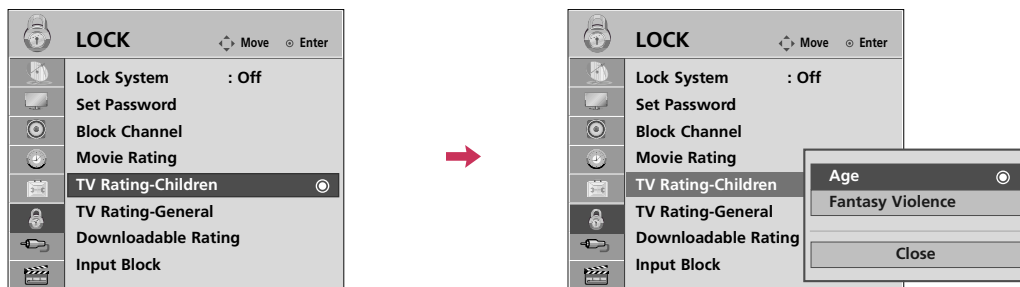
5 Return to the previous menu.




Return to TV viewing.


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

TV Rating Children - For USA

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




1    Select **LOCK**.


2  Input the password.

3  Select **TV Rating-Children**.

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

5   Select block options.

6  Return to the previous menu.

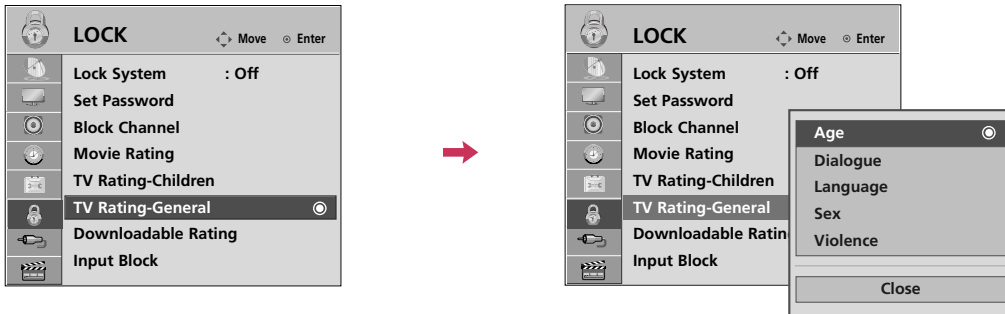
 Return to TV viewing.

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

PARENTAL CONTROL / RATINGS

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 Select **LOCK**.

2 Input the password.

3 Select **TV Rating-General**.

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

5 Select block options.

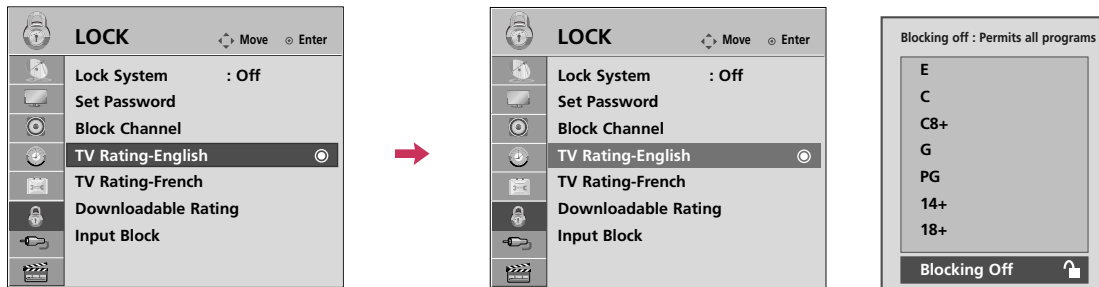
6 RETURN Return to the previous menu.




MENU Return to TV viewing.


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

TV Rating English - For CANADA



Selecting Canadian English rating system.





1    Select **LOCK**.

2  Input the password.

3  Select **TV Rating-English**.

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

5  Return to the previous menu.

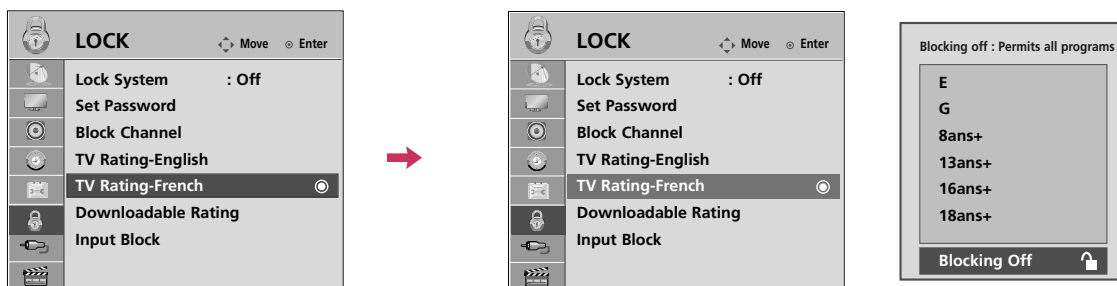
 Return to TV viewing.

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

PARENTAL CONTROL / RATINGS

TV Rating French - For CANADA

Selecting Canadian French rating system.



1 MENU Select LOCK.

2 Input the password.

3 Select TV Rating-French.

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

5 RETURN Return to the previous menu.

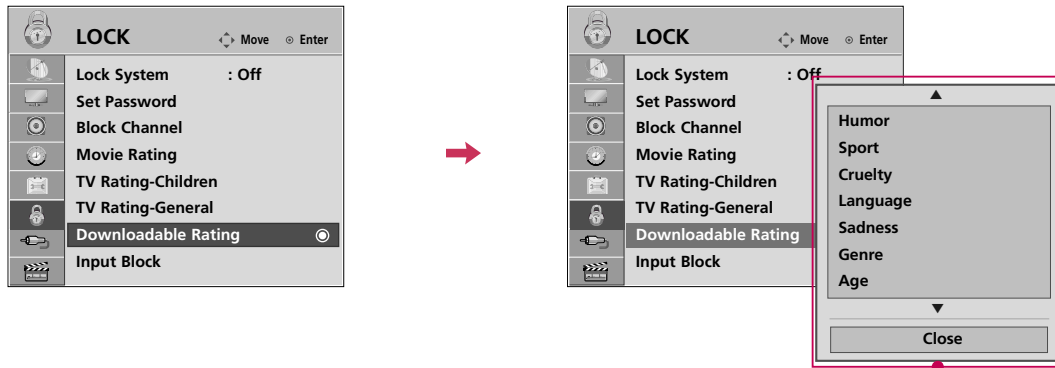
MENU Return to TV viewing.

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















DOWNLOADABLE RATING

This function is available only for digital channels.

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



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

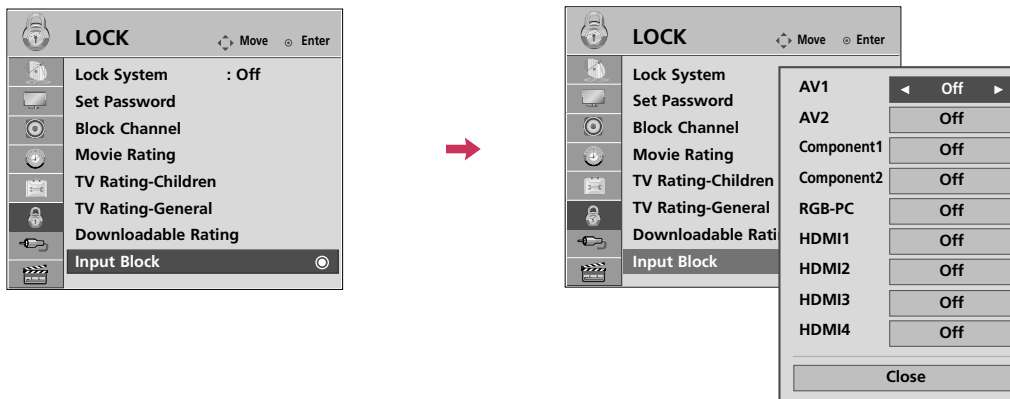
- 1    Select **LOCK**.
- 2  Input the password.
- 3   Select **Downloadable Rating**.
- 4    Select desired **Downloadable Rating** option.
- 5    Select desired option and block it.
- 6  Return to the previous menu.
-  Return to TV viewing.

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

PARENTAL CONTROL / RATINGS

EXTERNAL INPUT BLOCKING

Enables you to block an input.



1 MENU Select LOCK.

2 Input the password.

3 Select Input Block.

4 Select input source.

5 Select On or Off.

6 RETURN Return to the previous menu.

MENU Return to TV viewing.

APPENDIX

TROUBLESHOOTING

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

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

APPENDIX

Audio Problems

Picture OK & No sound	<ul style="list-style-type: none"> ■ Press the VOL or VOLUME button. ■ Sound muted? Press MUTE button. ■ Try another channel. The problem may be with the broadcast. ■ Are the audio cables installed properly?
No output from one of the speakers	<ul style="list-style-type: none"> ■ Adjust Balance in menu option.
Unusual sound from inside the product	<ul style="list-style-type: none"> ■ A change in ambient humidity or temperature may result in an unusual noise when the product is turned on or off and does not indicate a fault with the product.
No sound when connecting HDMI/USB	<ul style="list-style-type: none"> ■ Check HDMI cable over version 1.3. ■ Check USB cable over version 2.0. ■ Use normal MP3 file. <p style="text-align: right; margin-top: 0;">*This feature is not available for all models.</p>

PC Mode Problems

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

Movie List Problems

The file does not appear on the Movie List.

- Check whether the 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 in Memo Pad, you can check the language of the subtitle file.)

Wireless Connection Problems

Wireless connection is not established or is frequently disconnected.

- Adjust the location of the Media Box.
- Check if there are any obstacles near the TV or Media Box.
- Make sure the Media Box is turned on.

APPENDIX

MAINTENANCE

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

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

Cleaning the Screen

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

Cleaning the Cabinet

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

Extended Absence

CAUTION

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

PRODUCT SPECIFICATIONS

MODELS		47LH85 (47LH85-UC)	55LH85 (55LH85-UC)	55LHX (55LH95-UA)
Dimensions (Width x Height x Depth)	With stand	46.4 x 33.5 x 15.7 inches 1179.0 x 851.4 x 398.8 mm	54.0 x 37.9 x 17.8 inches 1373.0 x 964.3 x 454.2 mm	51.0 x 34.6 x 14.8 inches 1295.7 x 879.0 x 378.0 mm
	Without stand	46.4 x 30.7 x 4.1 inches 1179.0 x 780.6 x 105.9 mm	54.0 x 34.9 x 4.2 inches 1373.0 x 888.5 x 106.9 mm	51.0 x 31.4 x 0.9 (max 1.4) inches 1295.7 x 798.0 x 24.8 (max 375) mm
Weight	With stand	55.9 lbs / 25.4 kg	86.4 lbs / 39.2 kg	81.1 lbs / 36.8 kg
	Without stand	47.6 lbs / 21.6 kg	74.5 lbs / 33.8 kg	66.1 lbs / 30.0 kg
MODELS		ASW1000 (ASW1000-UA)		
Dimensions (Width x Height x Depth)		16.7 x 2.7 x 9.5 inches 426.0 x 68.6 x 234.5 mm		
Weight		5.7 lbs / 2.6 kg		
Power requirement Television System Program Coverage External Antenna Impedance		AC100-240V ~ 50/60Hz NTSC-M, ATSC, 64 & 256 QAM VHF 2-13, UHF 14-69, CATV 1-135, DTV 2-69, CADTV 1-135 75 ohm		
Environment condition	Operating Temperature Operating Humidity	32 ~ 104°F (0 ~ 40°C) Less than 80%		
	Storage Temperature Storage Humidity	-4 ~ 140°F (-20 ~ 60°C) Less than 85%		

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

RF SPECIFICATIONS

FCC ID: BEJEAX5296, IC: 2703L-EAX5296

Symbol	Parameter	Min.	Typical	Max.	Units
Fc (HRP)	HRP Frequency Range	59.4	60.48	61.56	GHz
Fc (LRP1)	LRP1 Frequency Range	60.272375	60.321375	60.370375	GHz
Fc (LRP2)	LRP2 Frequency Range	60.431	60.480	60.529	GHz
Fc (LRP3)	LRP3 Frequency Range	60.589625	60.638625	60.687625	GHz
BW (HRP)	HRP Occupied Bandwidth			1.76	GHz
BW (LRP)	LRP Occupied Bandwidth			92	MHz
P HREIRP	HRP Radiated Power (EIRP)	23	25	27	dBm
P LREIRP	LRP Radiated Power (EIRP)	8	11	21	dBm
G HRTX	HRP Transmit Antenna Gain		15	17	dBi
G LRTX	LRP Transmit Antenna Gain		3	13	dBi

APPENDIX

IR CODES

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

For 55LHX

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

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When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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0. This license agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this license"). Each license is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this license; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the library does and what the program that uses the library does.

1. You may copy and distribute verbatim copies of the library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of section 1 above, provided that you also meet all of these conditions:
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 - c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this license.
 - d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the library, and can be reasonably considered independent and separate works in themselves, then this license, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the library, the distribution of the whole must be on the terms of this license, whose permissions for other licenses extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the library.

In addition, mere aggregation of another work not based on the library with the library (or with a work based on the library) on a volume of a storage or distribution medium does not bring the other work under the scope of this license.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the library into a program that is not a library.

4. You may copy and distribute the library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a “work that uses the Library”. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this license.

However, linking a “work that uses the library” with the Library creates an executable that is a derivative of the Library (because it contains portions of the library), rather than a “work that uses the library”. The executable is therefore covered by this license. Section 6 states terms for distribution of such executable.

When a “work that uses the library” uses material from a header file that is part of the library, the object code for the work may be a derivative work of the library even though the source code is not.

Whether this is true is especially significant if the work can be linked without the library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessories, and small macros and small inline functions (ten lines or less in length), then the use of

the object file is unrestricted, regardless of whether it is legally a derivative work. (Executable containing this object code plus portions of the library will still fall under Section 6.)

Otherwise, if the work is a derivative of the library, you may distribute the object code for the work under the terms of Section 6. Any executable containing that work also fall under Section 6, whether or not they are linked directly with the library itself.

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable “work that uses the Library”, as object code and/or source code, so that the user can modify the library and then relink to produce a modified executable containing the modified library. (It is understood that the user who changes the contents of definitions files in the library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Use a suitable shared library mechanism for linking with the library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user’s computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the “work that uses the library” must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the library together in an executable that you distribute.

7. You may place library facilities that are a work based on the library side-by-side in a single library together with other library facilities not covered by this license, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
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Version 1.1

1. Definitions.

1.0.1. “Commercial use” means distribution or otherwise making the covered code available to a third party.

1.1. “Contributor” means each entity that creates or contributes to the creation of modifications.

1.2. “Contributor version” means the combination of the original code, prior modifications used by a contributor, and the modifications made by that particular contributor.

1.3. “Covered code” means the original code or modifications or the combination of the original code and modifications, in each case including portions thereof.

1.4. “Electronic distribution mechanism” means a mechanism generally accepted in the software development community for the electronic transfer of data.

1.5. “Executable” means covered code in any form other than source code.

1.6. “Initial developer” means the individual or entity identified as the initial Developer in the Source Code notice required by exhibit A.

1.7. “Larger work” means a work which combines covered code or portions thereof with code not governed by the terms of this License.

1.8. “License” means this document.

1.8.1. “Licensable” means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

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B. Any new file that contains any part of the original code or previous modifications.

1.10. “Original code” means source code of computer software

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1.11. “Source code” means the preferred form of the covered code for making modifications to it, including all modules it contains, plus any associated interface definition files, scripts used to control compilation and installation of an executable, or source code differential comparisons against either the original code or another well known, available covered code of the contributor’s choice. The source code can be in a compressed or archival form, provided the appropriate decompression or de-archiving software is widely available for no charge.

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- (c) the licenses granted in this section 2.1 (a) and (b) are effective on the date Initial developer first distributes original code under the terms of this license.
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- (c) the licenses granted in sections 2.2 (a) and 2.2 (b) are effective on the date contributor first makes commercial use of the covered code.
- (d) Notwithstanding section 2.2 (b) above, no patent license is granted: 1) for any code that contributor has deleted from the contributor version; 2) separate from the contributor version; 3) for infringements caused by: i) third party modifications of contributor version or ii) the combination of modifications made by that contributor with other software (except as part of the contributor version) or other devices; or 4) under patent claims infringed by covered code in the absence of modifications made by that contributor.

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The modifications which You create or to which you contribute are governed by the terms of this license, including without limitation section 2.2. The source code version of covered code may be distributed only under the terms of this license or a future version of this license released under section 6.1, and you must include a copy of this license with every copy of the source code you distribute.

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You must cause all covered code to which you contribute to contain a file documenting the changes You made to create that covered code and the date of any change. You must include a prominent statement that the modification is derived, directly or indirectly, from original code provided by the initial developer and including the name of the initial developer in (a) the source code, and (b) in any notice in an executable version or related documentation in which you describe the origin or ownership of the covered code.

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If contributor's modifications include an application programming interface and contributor has knowledge of patent licenses which are reasonably necessary to implement that API, contributor must also include this information in the LEGAL file.

(c) Representations.

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You must duplicate the notice in exhibit A in each file of the source code. If it is not possible to put such notice in a particular source code file due to its structure, then You must include such notice in a location (such as a relevant directory) where a user would be likely to look for such a notice. If You created one or more modification(s), you may add your name as a contributor to the notice described in exhibit A. you must also duplicate this license in any documentation for the source code where You describe recipients' rights or ownership rights relating to covered code. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of covered code. However, you may do so only on your own behalf, and not on behalf of the Initial developer or any contributor. You must make it absolutely clear than any such warranty, support, indemnity or liability obligation is offered by you alone, and You hereby agree to indemnify the Initial developer and every contributor for any liability incurred by the Initial developer or such contributor as a result of warranty, support, indemnity or liability terms you offer.

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You may create a larger work by combining covered code with other code not governed by the terms of this license and distribute the larger work as a single product. In such a case, you must make sure the requirements of this license are fulfilled for the covered code.

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