LG
Life's Good

LCD TV OWNER'S MANUAL

47LH85
55LH85
55LH95

Please read this manual carefully before operating your set and retain it for future reference.
The model and serial number of the TV is located on the back and one side of the TV.
Record it below should you ever need service.

Model:

Serial:

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

LG Customer Information Center

ENERGY STAR

This product qualifies for ENERGY STAR in the "factory default (Home Use)" setting and this is the setting in which power savings will be achieved.

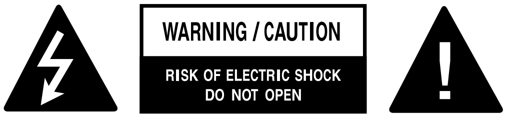
Changing the factory default picture setting or enabling other features will increase power consumption that could exceed the limits necessary to quality for Energy Star rating.

Media Box is not qualified for ENERGY STAR.

P/NO : SAC33601902 (0902-REV01)

www.lgusa.com / www.lg.ca

WARNING / CAUTION



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

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

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

WARNING/CAUTION

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

NOTE TO CABLE/TV INSTALLER

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

WARNING / CAUTION

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

FCC NOTICE

Class B digital device

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

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

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause (harmful) interference, and (2) this device must accept any interference received, including interference that may cause undesired operation (of the device).

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

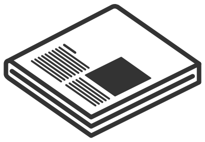
CAUTION

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

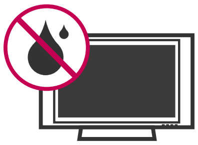
SAFETY INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS

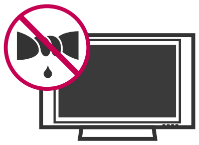
Read these instructions.
Keep these instructions.
Heed all warnings.
Follow all instructions.



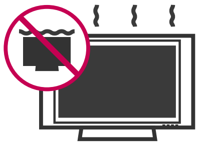
1. Do not use this apparatus near water.



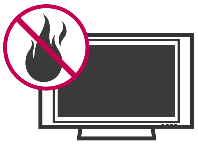
2. Clean only with dry cloth.



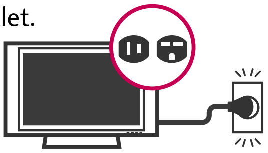
3. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.



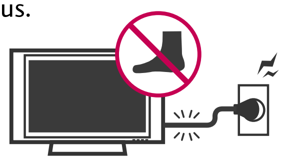
4. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



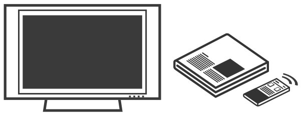
5. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong, The wide blade or the third prong are provided for your safety. If the provided plug does not fit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



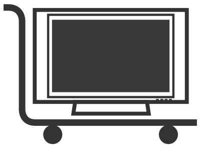
6. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

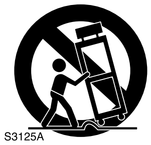


7. Only use attachments/accessories specified by the manufacturer.

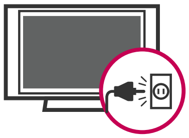


8. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

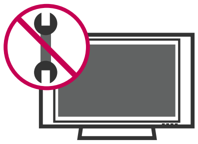




9. Unplug this apparatus during lighting storms or when unused for long periods of time.



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



SAFETY INSTRUCTIONS

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

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

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

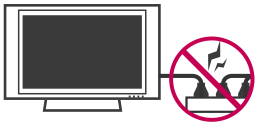
⑭ CAUTION concerning the Power Cord:

It is recommend that appliances be placed upon a dedicated circuit; that is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain.

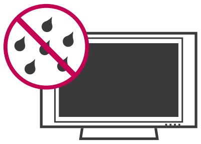
Do not connect too many appliances to the same AC power outlet as this could result in fire or electric shock.

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

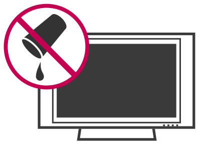
Do not make the TV with the power cord plugged in. Do not use a damaged or loose power cord. Be sure do grasp the plug when unplugging the power cord. Do not pull on the power cord to unplug the TV.



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



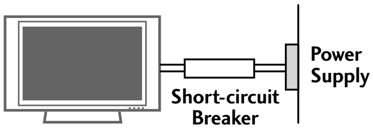
⑯ Do not expose to dripping or splashing and do not place objects filled with liquids, such as vases, cups, etc. on or over the apparatus (e.g. on shelves above the unit).



⑰ **GROUNDING**

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

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



⑱ **DISCONNECTING DEVICE FROM MAINS**

Mains plug is the disconnecting device. The plug must remain readily operable.

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

⑳

ANTENNAS

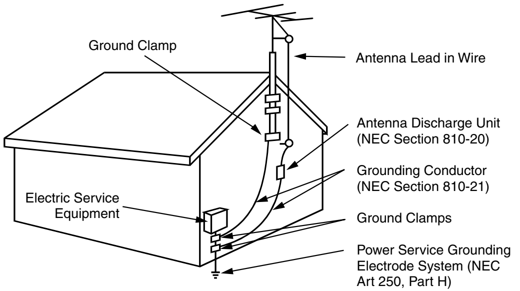
Outdoor antenna grounding

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



NEC: National Electrical Code

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 TV as electric shock may occur. Do not clean with chemicals such as alcohol, thinners or benzene.

㉒

Moving

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

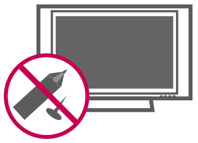
㉓

Ventilation

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

㉔ If you smell smoke or other odors coming from the TV 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

For LCD TV

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

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

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

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

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.
CALIBRATE LIKE A PRO: 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.

The AV Mode optimizes the picture into Cinema, Sports, and game Mode according to the video and audio content. The viewer has the ability to quickly choose the correct mode for the picture they are viewing.

LG TV include 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.

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

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

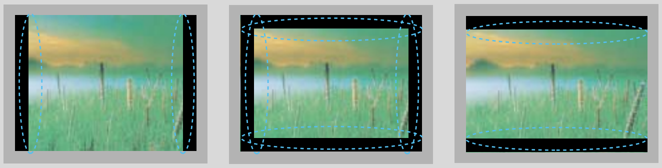
Automatically enhances and amplifies the sound of human voice frequency range to help keep dialogue audible when background noise swells.

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

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

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

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

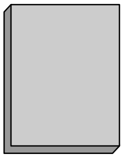


PREPARATION

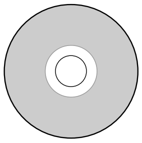
ACCESSORIES

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

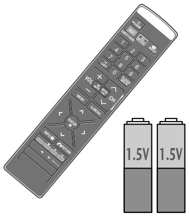
The accessories included may differ from the images below.



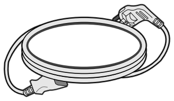
Owner's Manual



CD Manual

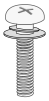


Remote Control, Batteries



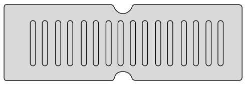
Power Cord

(For 47LH85)



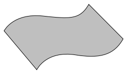
x 4

Bolts for stand assembly (Refer to P.15)



Protection Cover

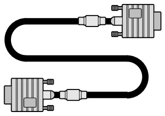
Not included with all models



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



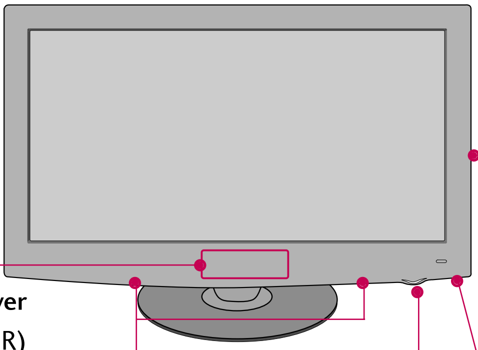
D-sub 15 pin Cable

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.

FRONT PANEL INFORMATION

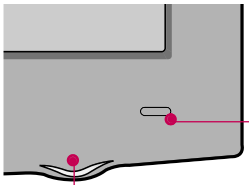
- Image shown may differ from your product.

LCD TV



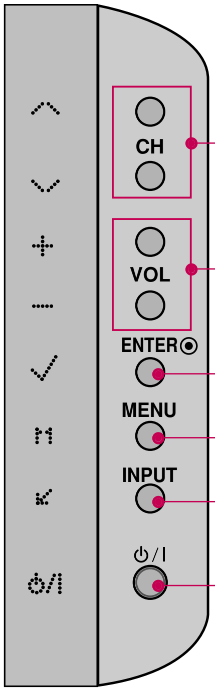
RF Receiver
(Model: EAX6069R)

SPEAKER



Remote Control Sensor, Intelligent Sensor
Adjusts 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 **Power Indicator** in the OPTION menu. ▶ p.?)



CH
VOL
ENTER◉
MENU
INPUT
⏻/I

CHANNEL (▲,▼) Buttons

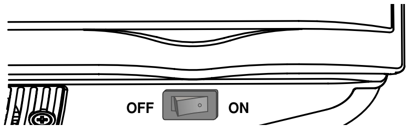
VOLUME (+, -) Buttons

ENTER Button

MENU Button

INPUT Button

POWER Button



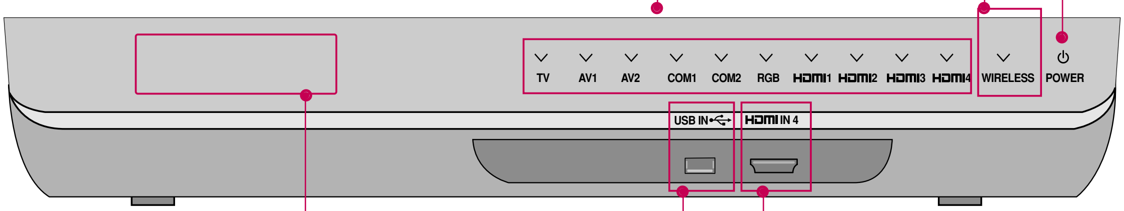
AC power control switch

MEDIA BOX

POWER touch button

Input Source Indicator &
INPUT touch button
Select the input source by touching a letter.

Wireless Connection
Indicator



TV
AV1
AV2
COM1
COM2
RGB
HDMI1
HDMI2
HDMI3
HDMI4
WIRELESS
POWER
USB IN
HDMI IN 4

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

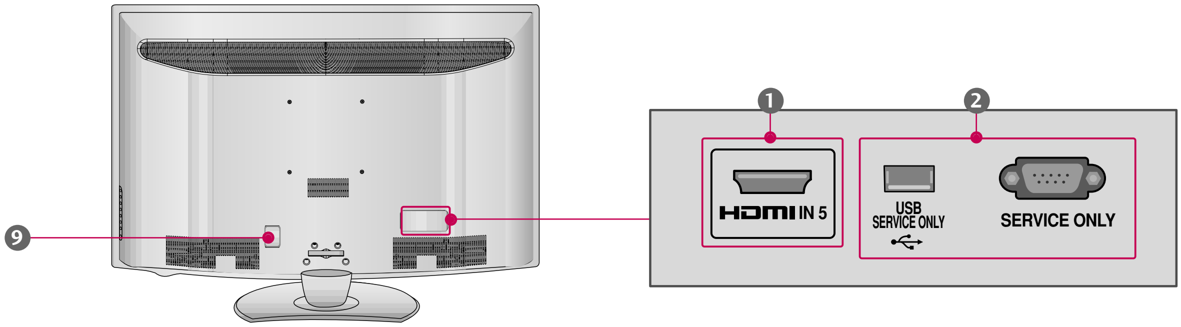
USB INPUT
Used for viewing photos and listening to MP3s.

HDMI IN 4
Digital Connection.
Supports HD video and Digital audio.

BACK PANEL INFORMATION

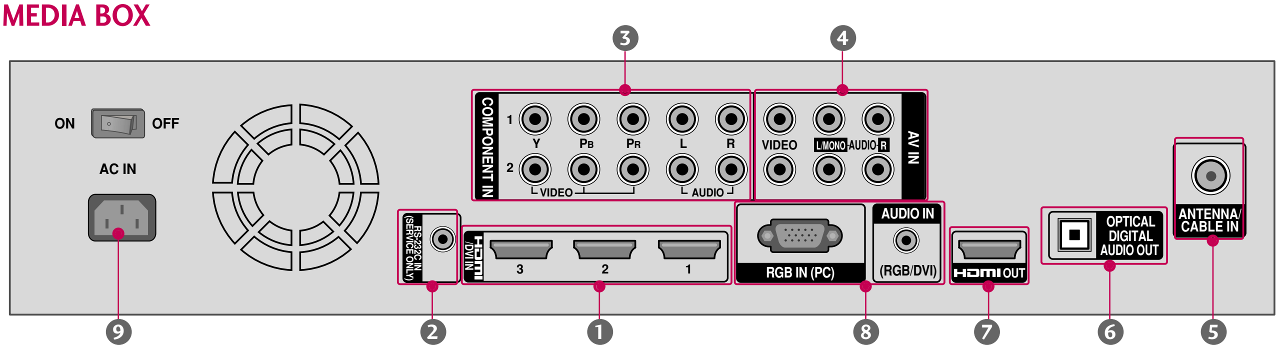
- Image shown may differ from your product.

LCD TV



①
②
HDMI IN 5
USB SERVICE ONLY
SERVICE ONLY
⑨

MEDIA BOX



③
④
ON
OFF
AC IN
COMPONENT IN
1
2
Y
PB
PR
L
R
VIDEO
AUDIO
VIDEO
L/MONO AUDIO R
AV IN
RS-232C IN (SERVICE ONLY)
HDMI/DVI IN
3
2
1
RGB IN (PC)
AUDIO IN
(RGB/DVI)
HDMI OUT
OPTICAL DIGITAL AUDIO OUT
ANTENNA/ CABLE IN
⑨
②
①
⑧
⑦
⑥
⑤

① HDMI/DVI IN, HDMI IN

Digital Connection.

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

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

② USB IN SERVICE ONLY, SERVICE ONLY RS-232C IN SERVICE ONLY

Used for software updates.

③ COMPONENT IN

Analog Connection.

Supports HD.

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

④ AV (Audio/Video) IN

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

⑤ ANTENNA/CABLE IN

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

⑥ 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.

⑦ HDMI OUT

Wired connection between TV and Media Box.

⑧ RGB IN (PC)

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

AUDIO IN (RGB/DVI)

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

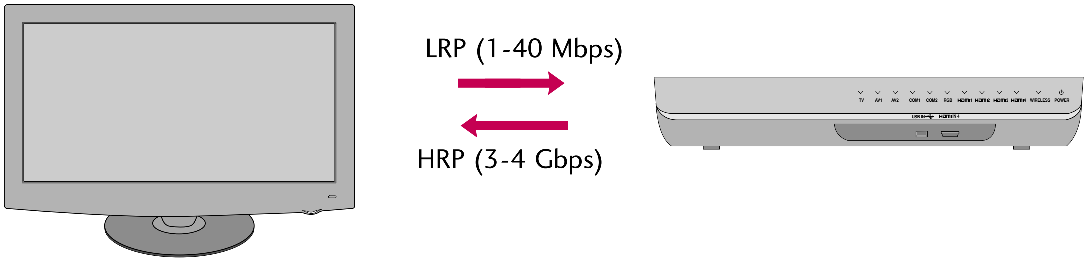
⑨ Power Cord Socket

For operation with AC power.

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

WIRELESS OPERATION

The Media Box transmits the 1080p HD video signal using 60 GHz freuency wirelessly.



Media Box features

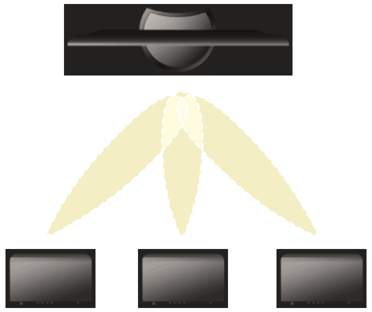
- Uncompressed 1080p HD video signal transmission from Media Box to TV in LOS 10 m.
- Beam direction due to 60 GHz frequency feature.
- Smart antenna technology: Beam direction can be change by obstacle.

NOTE

- To avoid wireless disconnection (due to interference), do not leave the TV and Media Box within LOS 10 m.
- Beam direction can be change by TV and Media Box location.
- If there is a obstacle in beam direction, wireless signal may be weak and the video quality is poor.

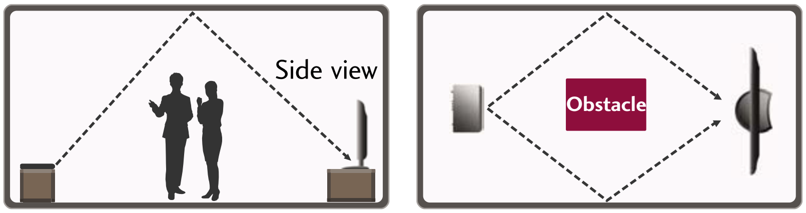
Wireless Beamforming

Beam direction can be change by Media Box location.



Wireless Beamsteering

- Beam direction can be change by obstacle.



Wall and ceiling made by concrete and metal.

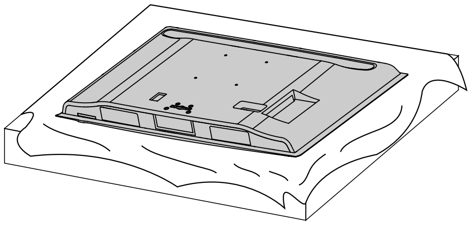
MEDIA BOX INSTALLATION

STAND INSTRUCTION

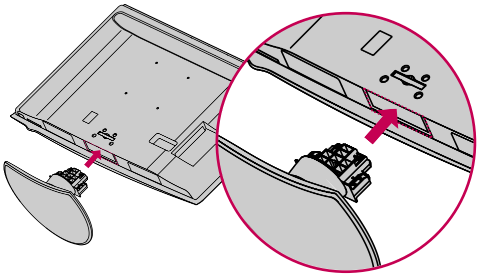
■ Image shown may differ from your TV.

INSTALLATION (For 47LH85)

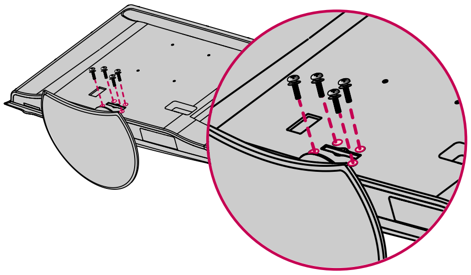
1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



2 Assemble the TV as shown.



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

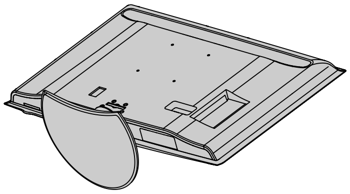


NOTE

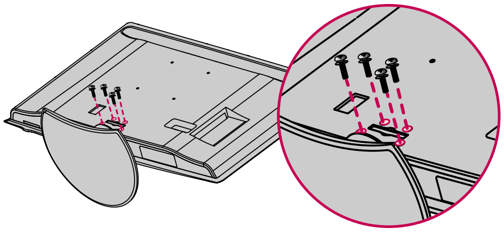
▶ When assembling the desk type stand, make sure the bolt is fully tightened (If not tightened fully, the TV can tilt forward after the product installation). Do not over tighten.

DETACHMENT

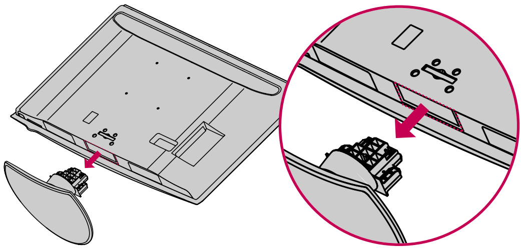
1. Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



2. Loose the bolts from TV.

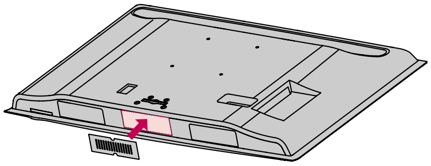


3. Detach the stand from TV.



PROTECTION COVER

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



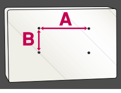
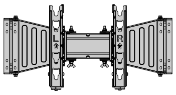
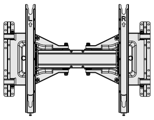
VESA WALL MOUNTING

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, 55LH95	400 * 400	M6	4	 AW-55LH40M

NOTE

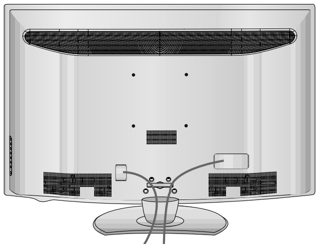
- ▶ Screw length needed depends on the wall mount used. For further information, refer to the instructions included with the mount.
- ▶ Standard dimensions for wall mount kits are shown in the table.
- ▶ When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly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

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

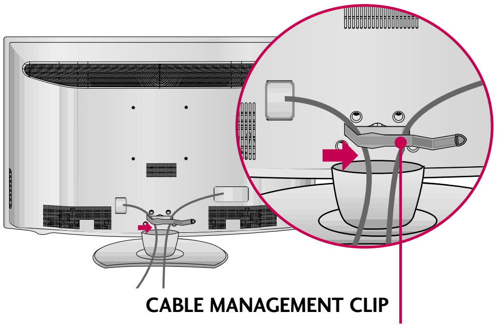
CABLE MANAGEMENT

- Image shown may differ from your TV.

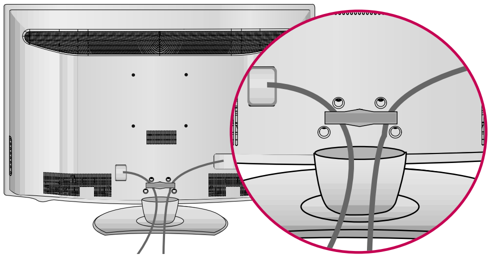
1. Connect the cables as necessary.
   To connect additional equipment, see the **EXTERNAL EQUIPMENT SETUP** section.



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



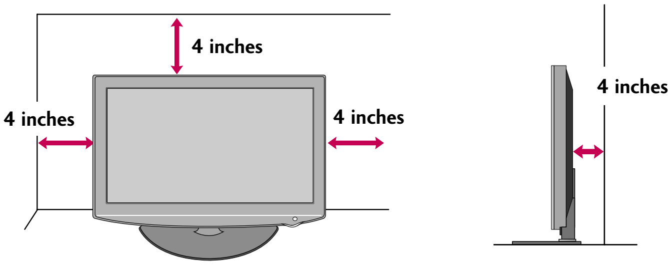
3. Put the cables inside the **CABLE MANAGEMENT CLIP** and snap it closed.



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.

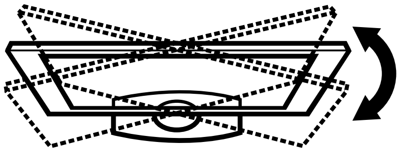


CAUTION

- ▶ 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.



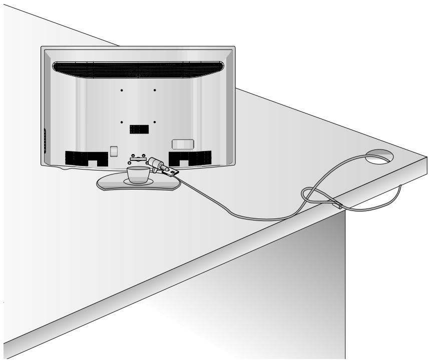
KENSINGTON SECURITY SYSTEM

- This feature is not available for all models.

- The TV is equipped with a Kensington Security System connector on the back panel. Connect the Kensington Security System cable as shown below.
- For the detailed installation and use of the Kensington Security System, refer to the user's guide provided with the Kensington Security System.

  For further information, contact **http://www.kensington.com**, the internet homepage of the Kensington company. Kensington sells security systems for expensive electronic equipment such as notebook PCs and LCD projectors.

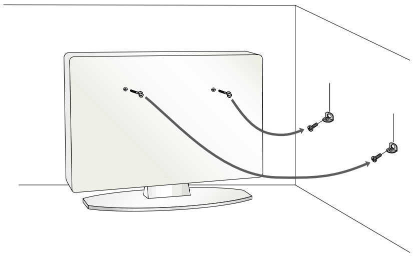
NOTE: The Kensington Security System is an optional accessory.

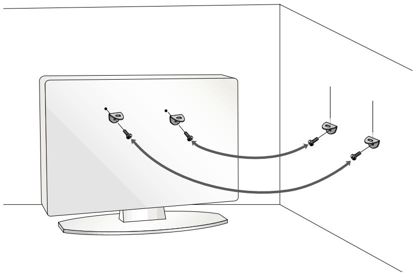


SECURING THE TV TO THE WALL TO PREVENT FALLING WHEN THE TV IS USED ON A STAND

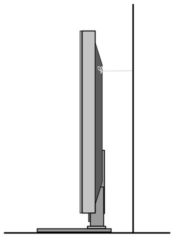
- You should purchase necessary components to prevent the TV from tipping over (when not using a wall mount).
- Image shown may differ from your TV.

We recommend that you set up the TV close to a wall so it cannot fall over if pushed backwards.
Additionally, we recommend that the TV be attached to a wall so it cannot be pulled in a forward direction, potentially causing injury or damaging the product.
Caution: Please make sure that children don't climb on or hang from the TV.





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



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

NOTE

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

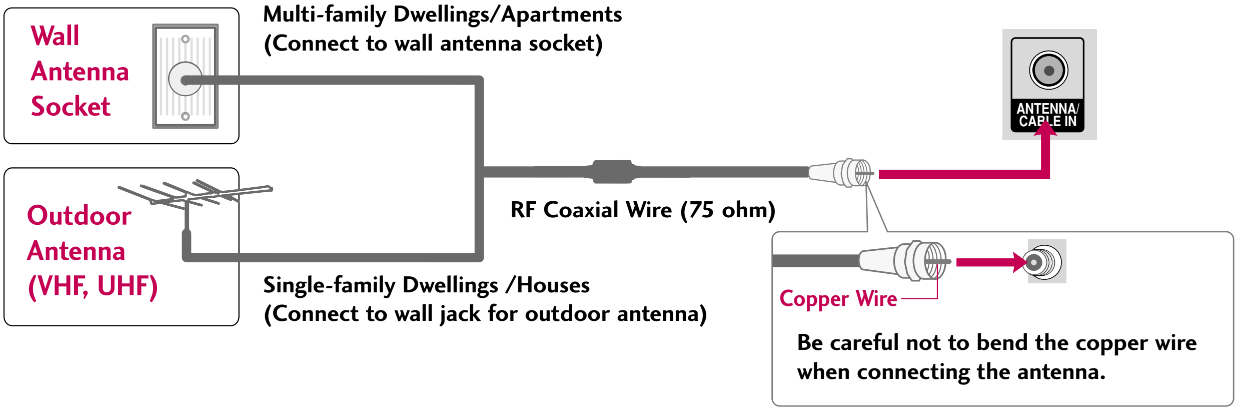
- To prevent damage do not connect to the power outlet until all connections are made between the devices.
- Image shown may differ from your TV.

ANTENNA OR CABLE CONNECTION

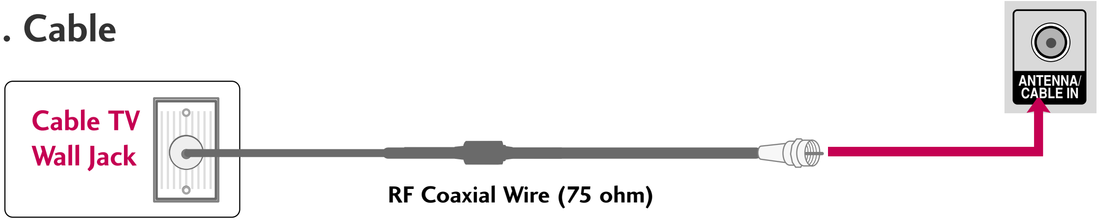
1. Antenna (Analog or Digital)

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

For optimum picture quality, adjust antenna direction if needed.


Wall Antenna Socket
Multi-family Dwellings/Apartments
(Connect to wall antenna socket)
ANTENNA/ CABLE IN
Outdoor Antenna (VHF, UHF)
RF Coaxial Wire (75 ohm)
Single-family Dwellings /Houses
(Connect to wall jack for outdoor antenna)
Copper Wire
Be careful not to bend the copper wire when connecting the antenna.

2. Cable


ANTENNA/ CABLE IN
Cable TV Wall Jack
RF Coaxial Wire (75 ohm)

- 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.

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 TV.

HD RECEIVER SETUP

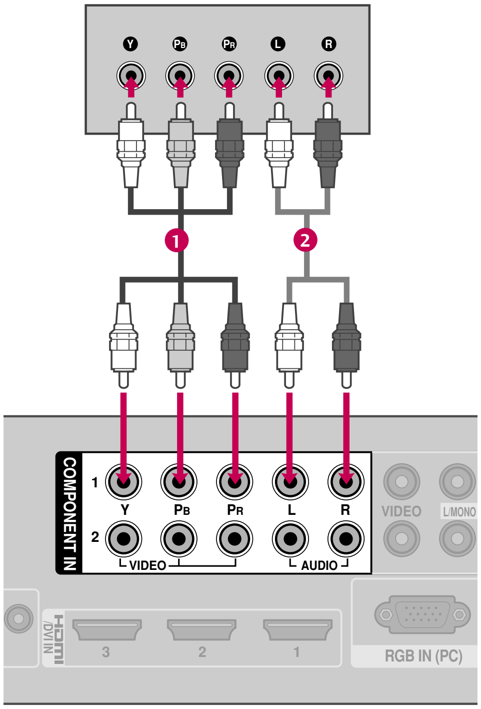
This Media Box can receive digital over-the-air/digital cable signals without an external digital set-top box. However, if you do receive digital signals from a digital set-top box or other digital external device.

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** 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 AUDIO 1** 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** input source on the Media Box using the **INPUT** button on the remote control.
- If connected to **COMPONENT IN 2** input, select the **Component2** input source on the Media Box.

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

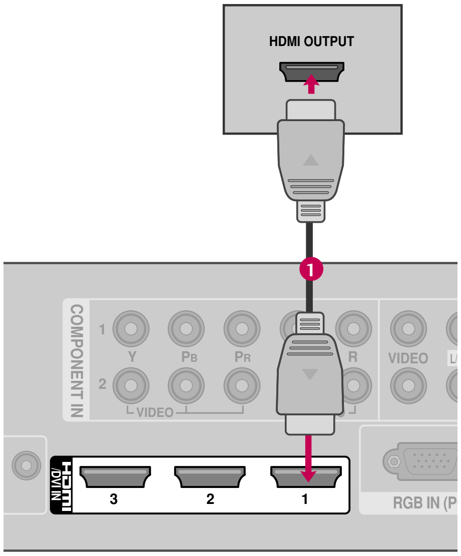
Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
720x480i	15.73 15.73	59.94 60.00
720x480p	31.47 31.50	59.94 60.00
1280x720p	44.96 45.00	59.94 60.00
1920x1080i	33.72 33.75	59.94 60.00
1920x1080p	26.97 27.00 33.71 33.75 67.432 67.50	23.94 24.00 29.97 30.00 59.939 60.00

HDMI Connection

1. How to connect

① Connect the digital set-top box to **HDMI/DVI IN 1**, **2**, **3**, or **4** jack on the Media Box.

② No separate audio connection is necessary. HDMI supports both audio and video.



2. How to use

- Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
- Select the **HDMI1**, **HDMI2**, **HDMI3**, or **HDMI4** input source on the Media Box using the **INPUT** button on the remote control.

HDMI-DTV

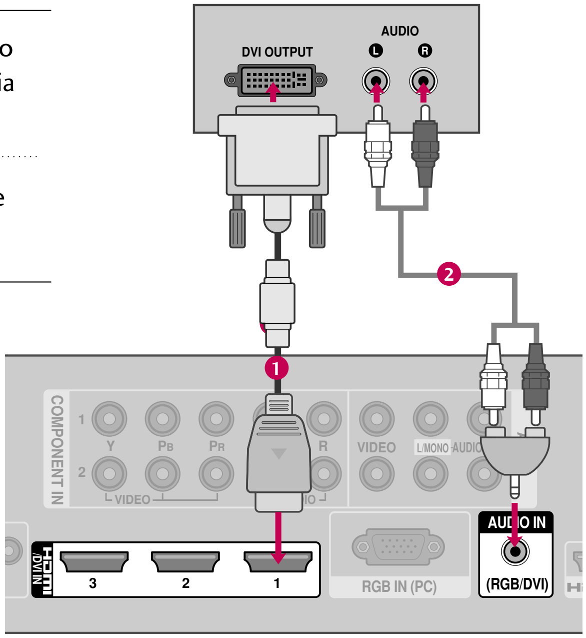
Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
720x480p	31.47	59.94
	31.50	60.00
1280x720p	44.96	59.94
	45.00	60.00
1920x1080i	33.72	59.94
	33.75	60.00
1920x1080p	26.97	23.94
	27.00	24.00
	33.71	29.97
	33.75	30.00
	67.432	59.939
	67.50	60.00

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**, **3**, or **4** 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.


DVI OUTPUT
AUDIO
L
R
1
2
COMPONENT IN
Y
PB
PR
R
VIDEO
L/MONO AUDIO
VIDEO
HDMI/DVI IN
3
2
1
RGB IN (PC)
AUDIO IN
(RGB/DVI)

2. How to use

- Turn on the digital set-top box.
  (Refer to the owner's manual for the digital set-top box.)
- Select the HDMI1, HDMI2, HDMI3, or HDMI4 input source on the Media Box using the INPUT button on the remote control.

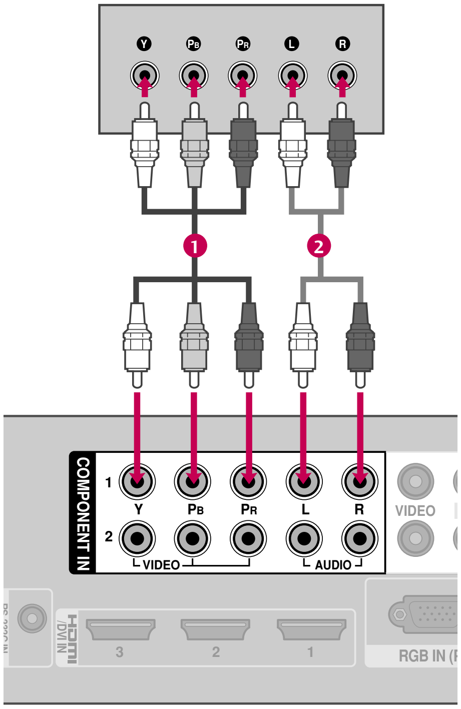
DVD SETUP

Component Connection

1. How to connect

① Connect the video outputs (Y, PB, PR) of the DVD to the **COMPONENT IN VIDEO 1** 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** jacks on the Media Box.



Y
PB
PR
L
R
1
2
COMPONENT IN
1
Y
PB
PR
L
R
2
VIDEO
AUDIO
VIDEO
HDMI/DVI IN
3
2
1
RGB IN (P

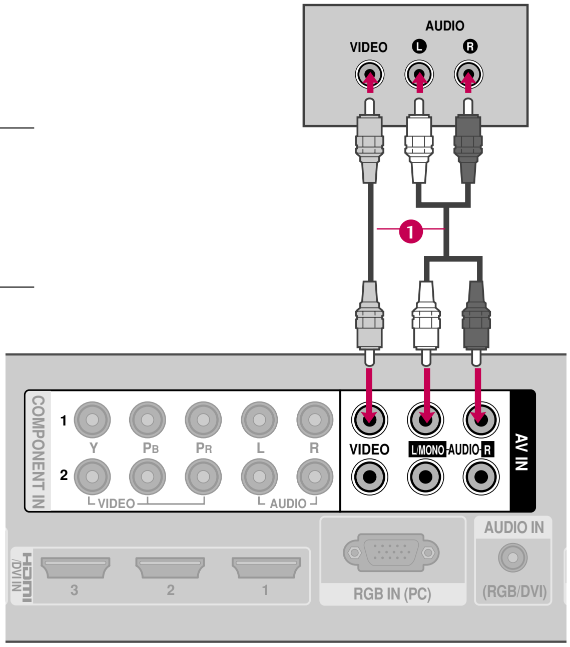
2. How to use

- Turn on the DVD player, insert a DVD.
- Select the **Component1** input source on the Media Box using the **INPUT** button on the remote control.
- If connected to **COMPONENT IN 2** input, select the **Component2** input source on the Media Box.
- Refer to the DVD player's manual for operating instructions.

Composite (RCA) Connection

1. How to connect

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



AUDIO
VIDEO
L
R
1
COMPONENT IN
1
Y
PB
PR
L
R
2
VIDEO
AUDIO
VIDEO
L/MONO AUDIO R
AV IN
HDMI/DVI IN
3
2
1
RGB IN (PC)
AUDIO IN
(RGB/DVI)

2. How to use

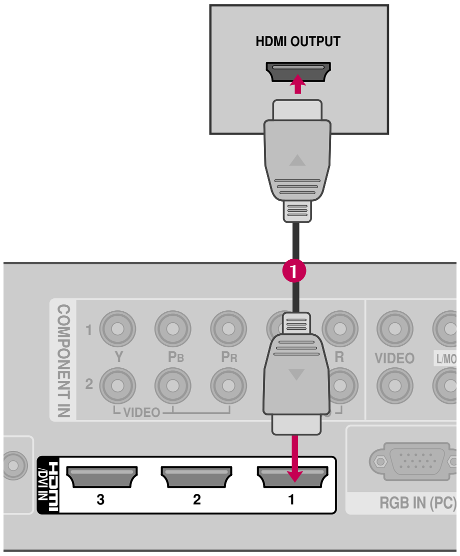
- Turn on the DVD player, insert a DVD.
- Select the **AV1** or **AV2** input source on the Media Box using the **INPUT** button on the remote control.
- Refer to the DVD player's manual for operating instructions.

HDMI Connection

1. How to connect

❶ Connect the HDMI output of the DVD to the **HDMI/DVI IN 1**, **2**, **3** or **4** jack on the Media Box.

❷ No separate audio connection is necessary.
HDMI supports both audio and video.


HDMI OUTPUT
❶
COMPONENT IN
1
2
Y
PB
PR
R
VIDEO
L/MO
VIDEO
HDMI/DVI IN
3
2
1
RGB IN (PC)

2. How to use

- Select the **HDMI1**, **HDMI2**, **HDMI3**, or **HDMI4** input source on the Media Box 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.

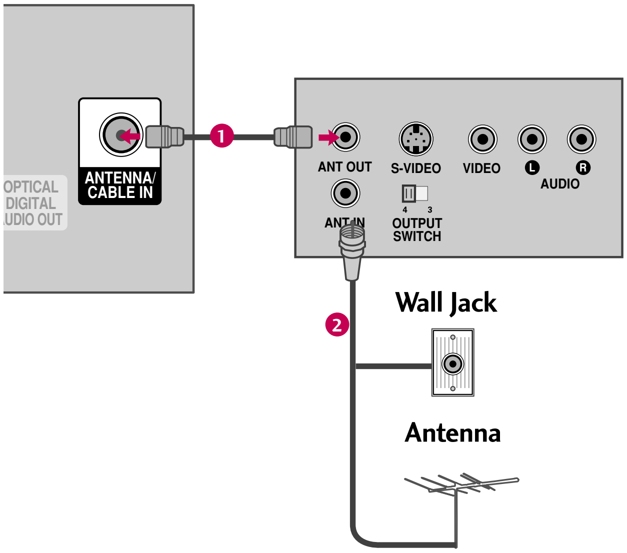
VCR SETUP

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.


OPTICAL
DIGITAL
UDIO OUT
ANTENNA/
CABLE IN
1
ANT OUT
S-VIDEO
VIDEO
L
R
AUDIO
ANT IN
4 3
OUTPUT
SWITCH
2
Wall Jack
Antenna

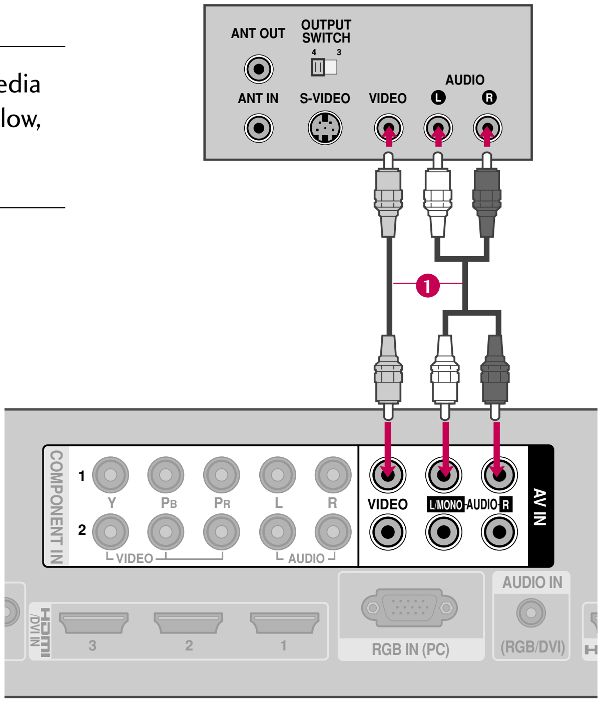
2. How to use

- 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)


ANT OUT
OUTPUT
SWITCH
4 3
AUDIO
ANT IN
S-VIDEO
VIDEO
L
R
1
COMPONENT IN
1
2
Y
PB
PR
L
R
VIDEO
AUDIO
VIDEO
L/MONO
AUDIO
R
AV IN
HDMI/DVI IN
3
2
1
RGB IN (PC)
AUDIO IN
(RGB/DVI)

2. How to use

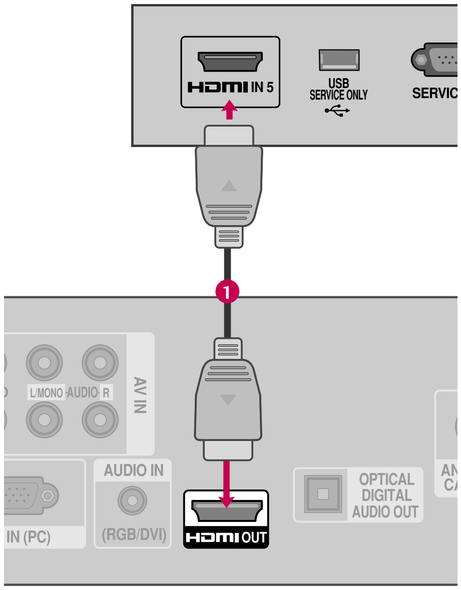
- Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
- Select the AV1 input source on the Media Box using the INPUT button on the remote control.
- If connected to AV IN 2, select AV2 input source on the Media Box.

LCD TV AND MEDIA BOX WIRED SETUP

1. How to connect

① Connect the **HDMI IN 5** of the TV to the **HDMI OUT** jacks on the Media Box.

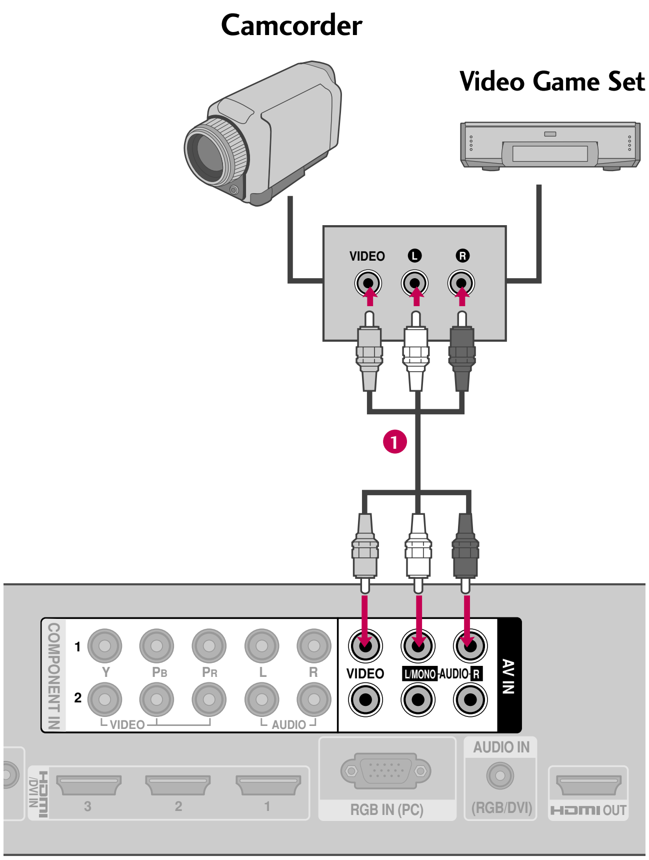
② No separate audio connection is necessary.
HDMI supports both audio and video.


HDMI IN 5
USB
SERVICE ONLY
SERVIC
1
L/MONO -AUDIO- R
AV IN
AUDIO IN
IN (PC)
(RGB/DVI)
HDMI OUT
OPTICAL
DIGITAL
AUDIO OUT

2. How to use

- Select the **Component1** input source on the Media Box using the **INPUT** button on the remote control.

OTHER A/V SOURCE SETUP


Camcorder
Video Game Set
VIDEO
L
R
1
COMPONENT IN
1
2
Y
PB
PR
L
R
VIDEO
AUDIO
VIDEO
L/MONO AUDIO R
AV IN
HDMI/DVI IN
3
2
1
RGB IN (PC)
AUDIO IN
(RGB/DVI)
HDMI OUT

1. How to connect

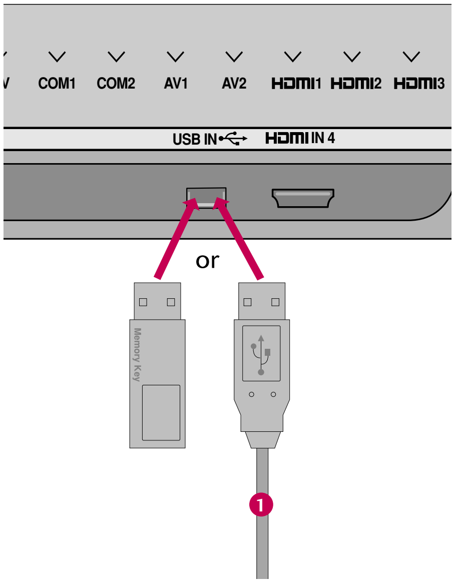
① Connect the **AUDIO/VIDEO** jacks between Media Box and external equipment. Match the jack colors.

(Video = yellow, Audio Left = white, and Audio Right = red)

2. How to use

- Select the **AV2** input source on the Media Box using the **INPUT** button on the remote control.
- If connected to **AV IN 1** input, select the **AV1** input source on the Media Box.
- Operate the corresponding external equipment.

USB CONNECTION


COM1
COM2
AV1
AV2
HDMI1
HDMI2
HDMI3
USB IN
HDMI IN 4
or
Memory Key
1

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.?)

AUDIO OUT CONNECTION

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

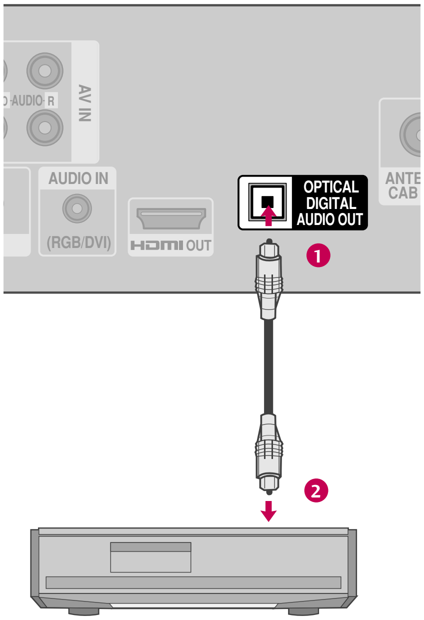
If you want to enjoy digital broadcasting through 5.1-channel speakers, connect the OPTICAL DIGITAL AUDIO OUT terminal on the back of TV to a Home Theater (or amp).

1. How to connect

① Connect one end of the optical cable to the 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 option - Off” in the AUDIO menu. (▶ **p.?**). 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.?**)

CAUTION

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

PC SETUP

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

VGA (D-Sub 15 pin) Connection

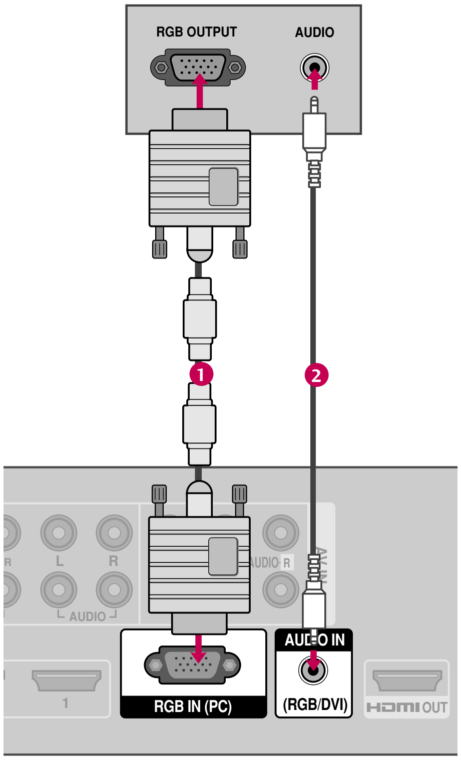
1. How to connect

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 on the Media Box using the **INPUT** button on the remote control.


RGB OUTPUT
AUDIO
1
2
R
L
R
AUDIO
AUDIO R
AV IN
AUDIO IN
RGB IN (PC)
(RGB/DVI)
1
HDMI OUT

DVI to HDMI Connection

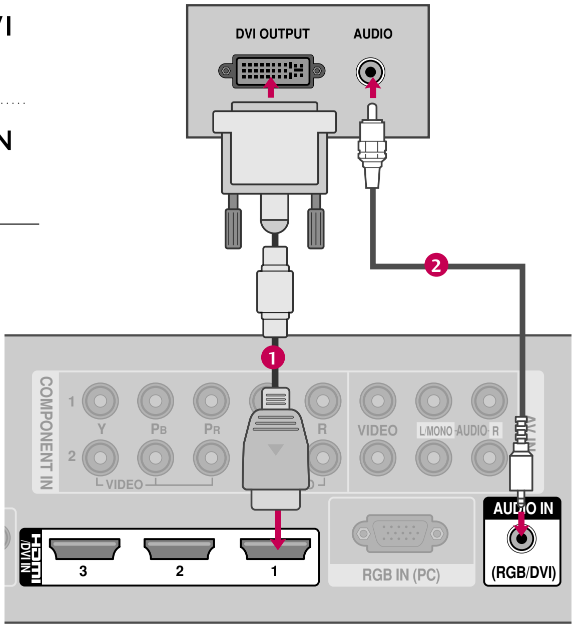
1. How to connect

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 on the Media Box using the **INPUT** button on the remote control.


DVI OUTPUT
AUDIO
2
1
COMPONENT IN
1
2
Y
PB
PR
VIDEO
R
VIDEO
L/MONO AUDIO R
AV IN
HDMI/DVI IN
3
2
1
RGB IN (PC)
AUDIO IN
(RGB/DVI)

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.
- The TV provides EDID data to the PC system with a DDC protocol. DDC protocol is preset for RGB (Analog RGB), HDMI (Digital RGB) mode.

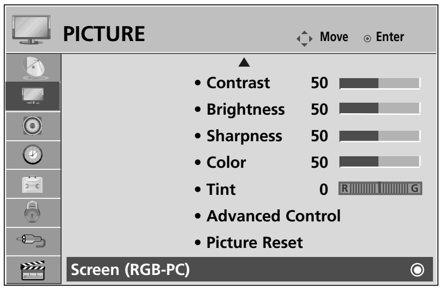
Supported Display Specifications (RGB-PC, HDMI-PC)

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

Screen Setup for PC mode

Selecting Resolution

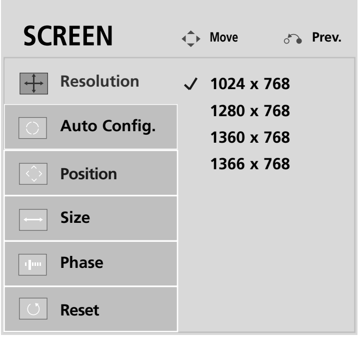
You can choose the resolution in RGB-PC mode.
The **Position**, **Phase**, and **Size** can also be adjusted.



PICTURE Move Enter

- Contrast 50
- Brightness 50
- Sharpness 50
- Color 50
- Tint 0 R G
- Advanced Control
- Picture Reset

Screen (RGB-PC)



SCREEN Move Prev.

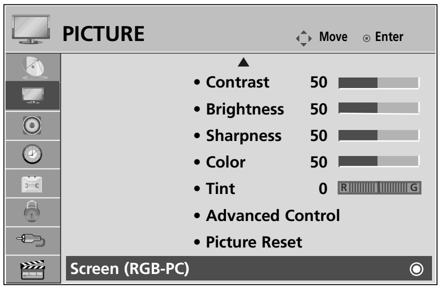
- Resolution
- Auto Config.
- Position
- Size
- Phase
- Reset

✓ 1024 x 768
1280 x 768
1360 x 768
1366 x 768

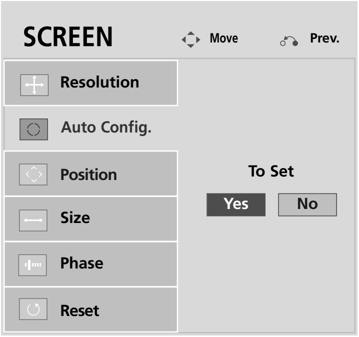
1. Select **PICTURE**.
2. Select **Screen (RGB-PC)**.
3. Select **Resolution**.
4. Select the desired resolution.
5.

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.


PICTURE
Move
Enter
Advanced Control
Picture Reset
Screen (RGB-PC)
R
G

- Contrast 50
- Brightness 50
- Sharpness 50
- Color 50
- Tint 0


SCREEN
Move
Prev.
Resolution
Auto Config.
Position
Size
Phase
Reset
To Set
Yes
No

1 Select **PICTURE**.

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

3 Select **Auto Config.**.

4 Select **Yes**.

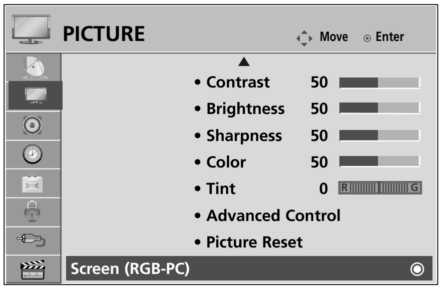
5 Start Auto Configuration.

- 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**.

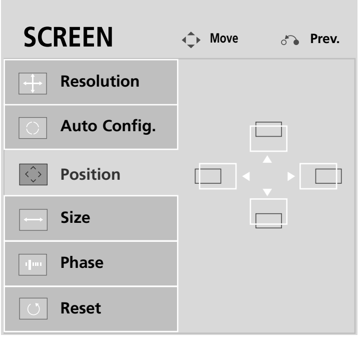
Adjustment for screen Position, Size, and Phase

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

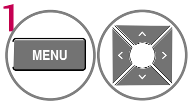
This feature operates only in RGB-PC mode.


PICTURE
Move
Enter
R
G
Screen (RGB-PC)

- Contrast 50
- Brightness 50
- Sharpness 50
- Color 50
- Tint 0
- Advanced Control
- Picture Reset

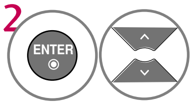

SCREEN
Move
Prev.
Resolution
Auto Config.
Position
Size
Phase
Reset

1



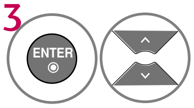
Select **PICTURE**.

2



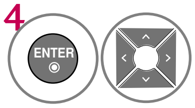
Select **Screen (RGB-PC)**.

3



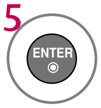
Select **Position**, **Size**, or **Phase**.

4



Make appropriate adjustments.

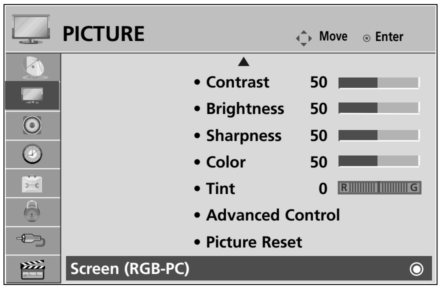
5



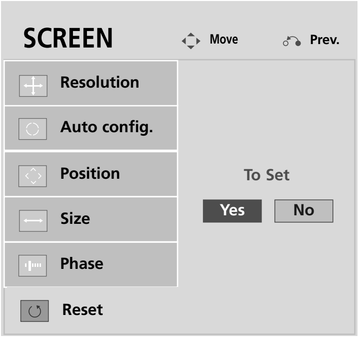
- **Position**: This function is to adjust picture to left/right and up/down as you prefer.
- **Size**: This function is to minimize any vertical bars or stripes visible on the screen background. And the horizontal screen size will also change.
- **Phase**: This function allows you to remove any horizontal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

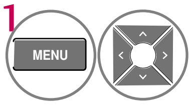
Screen Reset (Reset to original factory values)

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

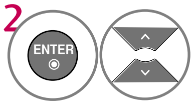

PICTURE
Move
Enter
Advanced Control
Picture Reset
Screen (RGB-PC)

- Contrast 50
- Brightness 50
- Sharpness 50
- Color 50
- Tint 0 R G

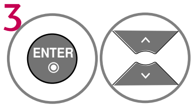

SCREEN
Move
Prev.
Resolution
Auto config.
Position
Size
Phase
Reset
To Set
Yes
No

1


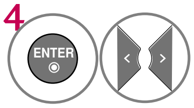
Select **PICTURE**.

2


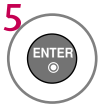
Select **Screen (RGB-PC)**.

3


Select **Reset**.

4


Select **Yes**.

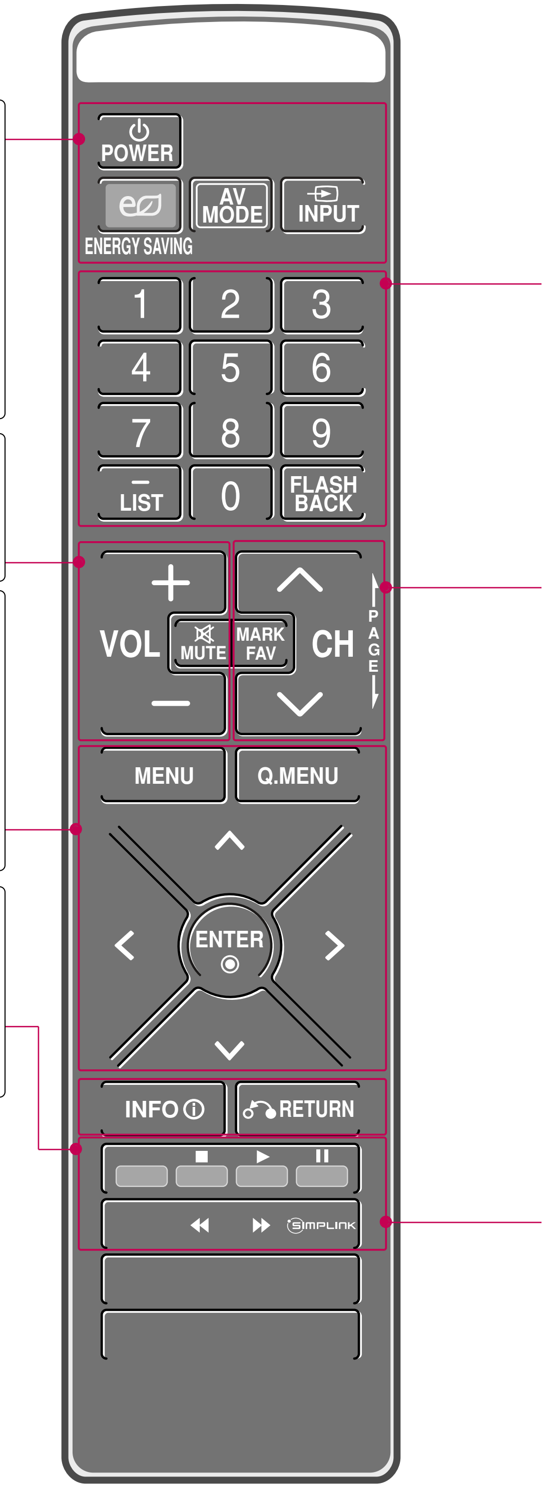
5


WATCHING TV / CHANNEL CONTROL

REMOTE CONTROL FUNCTIONS

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

POWER	Turns the TV on from standby or off to standby.
ENERGY SAVING	Adjusts the Energy Saving. ▶ **p.86**
AV MODE	Toggles through preset Video and Audio modes. ▶ **p.58**
INPUT	Rotates through inputs. Also switches the TV on from standby. ▶ **p.56**
VOLUME UP /DOWN	Adjusts the volume.
MUTE	Switches the sound on or off. ▶ **p.45**
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.49**
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.55**
RETURN	Allows the user to move return one step in an interactive application or other user interaction function.

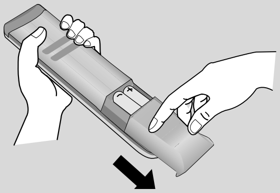

POWER
ENERGY SAVING
AV MODE
INPUT
1
2
3
4
5
6
7
8
9
LIST
0
FLASH BACK
VOL
MUTE
MARK FAV
CH
PAGE
MENU
Q.MENU
ENTER
INFO ⓘ
RETURN
SIMPLINK

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.53**
FLASHBK	Tunes to the last channel viewed.

CHANNEL UP/DOWN	Changes the channel.
PAGE UP/DOWN	Moves from one full set of screen information to the next one.
FAV	Scroll through the programmed Favorite channels. ▶ **p.54**
MARK	Select the input to apply the Picture Wizard settings. ▶ **p.79** Use to mark or unmark a photo/music. ▶ **p.64, 68, 72**

USB, SIMPLINK Control buttons	○ Controls USB menu (Photo List and Music List.) ○ Controls the SIMPLINK compatible devices.
SIMPLINK	See a list of AV devices connected to TV. When you toggle this button, the SIMPLINK menu appears at the screen. ▶ **p.60-61**

Installing Batteries



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

TURNING ON THE TV

1. First, connect power cord correctly and switch the **AC power control switch** on TV.
   At this moment, the TV switches to standby mode.
   - In standby mode to turn TV on, press the ⏻/I , **INPUT**, **CH (∧ or ∨)** button on the TV or press the **POWER**, **INPUT**, **CH (∧ or ∨)**, **Number (0~9)** button on the remote control.

2. Select the viewing source by using the **INPUT** button on the remote control.
   - This TV is programmed to remember which power state it was last set to, even if the power cord is out.

3. When finished using the TV, press the **POWER** button on the remote control. The TV reverts to standby mode.

NOTE

- If you intend to be away on vacation, disconnect the power plug from the wall power outlet.
- If you do not complete the **Initial setting**, it will appear whenever the TV is switched on until the **Initial setting** procedure is completed.
- If the TV is unplugged once or turn off with the AC power control switch on the TV, reset the **Clock** function.

- **When pressing ⏻/I button on the TV or POWER the remote control.**

TV	Media Box
On	On
	Sleep
	Standby
Standby	On
	Sleep
	Standby

→

TV	Media Box
Standby	Sleep
	Sleep
	Standby
On	On
	On
	Standby

- **When pressing POWER button on the Media Box.**

You cannot turn on the TV using POWER button on the Media Box.

TV	Media Box
On	On
	Sleep
	Standby
Standby	On
	Sleep
	Standby

→

TV	Media Box
Standby	Sleep
On	On
On	On
Standby	Sleep
	On
	On

* Standby: The status that wireless connection is impossible between TV and Media Box.
* Sleep: The status that wireless connection is possible between TV and Media Box.

CHANNEL SELECTION

1. Press the **CH (∧ or ∨)** or **NUMBER** buttons to select a channel number.

VOLUME ADJUSTMENT

Adjust the volume to suit your personal preference.

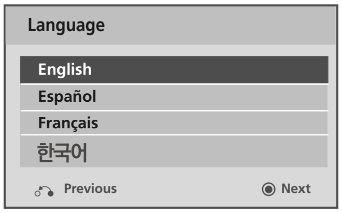
1. Press the **VOL (+** or **-)** button to adjust the volume.
2. If you want to switch the sound off, press the **MUTE** button.
3. You can cancel the Mute function by pressing the **MUTE** or **VOL (+** or **-)** button.

INITIAL SETTING

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

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

Step1. Selecting Language



Language

English

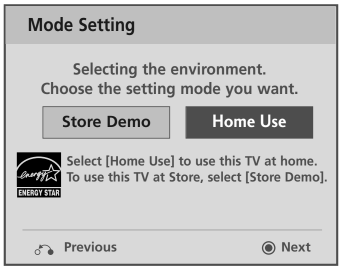
Español

Français

한국어

1 Select Menu Language.

Step2. Mode setting



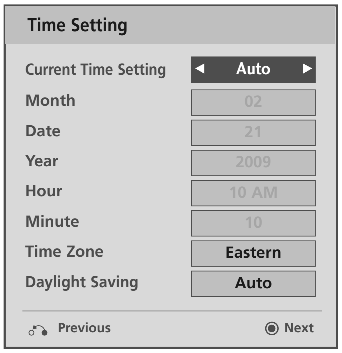
Mode Setting

Selecting the environment.
Choose the setting mode you want.

Select [Home Use] to use this TV at home.
To use this TV at Store, select [Store Demo].

1 Select **Home Use**.

Step3. Time setting



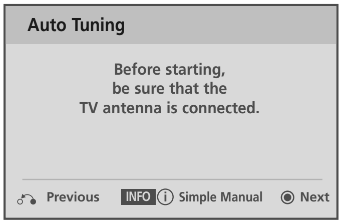
Time Setting

Current Time Setting	◄ Auto ►
Month	02
Date	21
Year	2009
Hour	10 AM
Minute	10
Time Zone	Eastern
Daylight Saving	Auto

1 Select **Auto** or **Manual**.

2 Select desired time option.

Step4. Auto Tuning



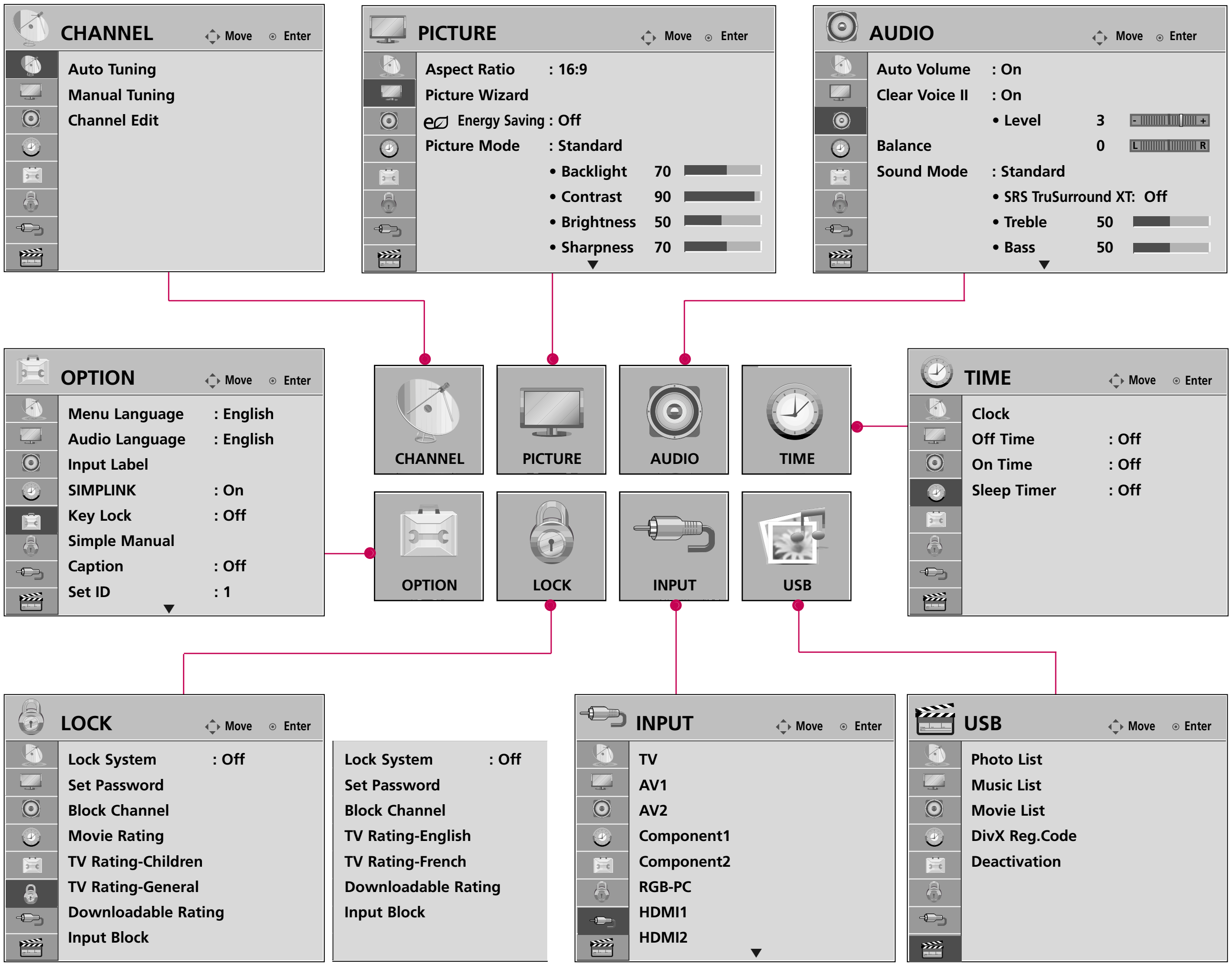
Auto Tuning

Before starting,
be sure that the
TV antenna is connected.

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

ON-SCREEN MENUS SELECTION

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



CHANNEL
Auto Tuning
Manual Tuning
Channel Edit

PICTURE
Aspect Ratio : 16:9
Picture Wizard
Energy Saving : Off
Picture Mode : Standard
• Backlight 70
• Contrast 90
• Brightness 50
• Sharpness 70

AUDIO
Auto Volume : On
Clear Voice II : On
• Level 3
Balance 0
Sound Mode : Standard
• SRS TruSurround XT: Off
• Treble 50
• Bass 50

OPTION
Menu Language : English
Audio Language : English
Input Label
SIMPLINK : On
Key Lock : Off
Simple Manual
Caption : Off
Set ID : 1

TIME
Clock
Off Time : Off
On Time : Off
Sleep Timer : Off

LOCK
Lock System : Off
Set Password
Block Channel
Movie Rating
TV Rating-Children
TV Rating-General
Downloadable Rating
Input Block

For USA

Lock System : Off
Set Password
Block Channel
TV Rating-English
TV Rating-French
Downloadable Rating
Input Block

For Canada

INPUT
TV
AV1
AV2
Component1
Component2
RGB-PC
HDMI1
HDMI2

USB
Photo List
Music List
Movie List
DivX Reg.Code
Deactivation

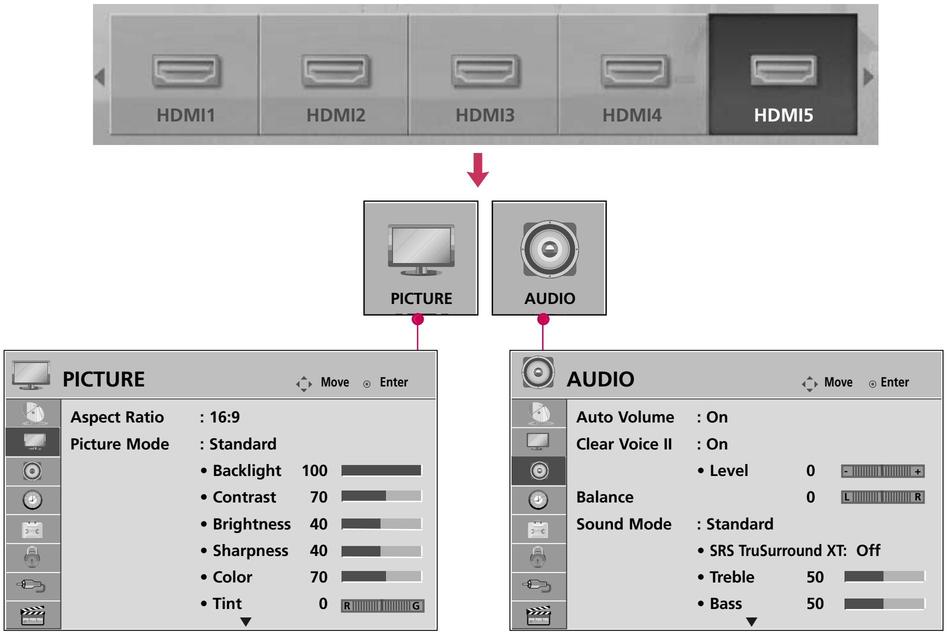
1 MENU Display each menu.

2 ENTER Select a menu item.

3 ENTER Accept the current selection.

4 MENU Return to TV viewing.

When connecting HDMI5



PICTURE

Aspect Ratio : 16:9
Picture Mode : Standard
- Backlight 100
- Contrast 70
- Brightness 40
- Sharpness 40
- Color 70
- Tint 0 R G

AUDIO

Auto Volume : On
Clear Voice II : On
- Level 0 - +

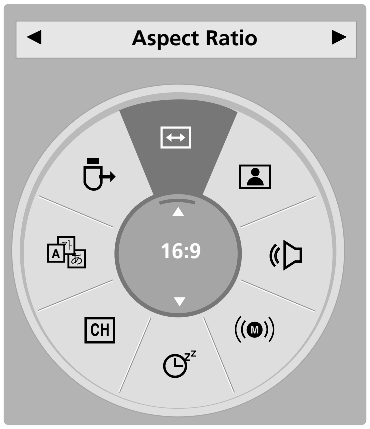
Balance 0 L R
Sound Mode : Standard
- SRS TruSurround XT: Off
- Treble 50
- Bass 50

NOTE

- This product not only provides composite, component and HDMI1-4 that can be used as the input terminal to the Media Box but also provides HDMI5 that can be directly connected to the TV for limited usage.
- Use of menu other than picture/audio is limited while viewing through HDMI5.

QUICK MENU

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



Aspect Ratio: Selects your desired picture format.

Picture Mode: Selects the factory preset picture depend on the viewing environment.

Sound Mode: Selects the factory preset sound for type of program.

Multi Audio: Changes the audio language (Digital signal).

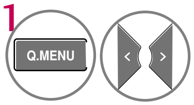
SAP: Selects MTS sound (Analog signal).

Sleep Timer: Select the amount of time before your TV turns off automatically.

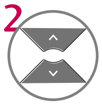
Del/Add/Fav: Select channel you want to add/delete or add the channel to the Favorite List.

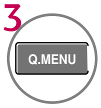
Caption: Select on or off.

USB Device: Select "Eject" in order to eject a USB device.

1


Display each menu.

2

Make appropriate adjustments.

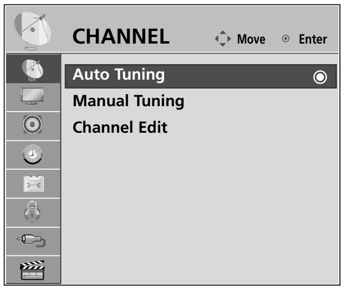
3


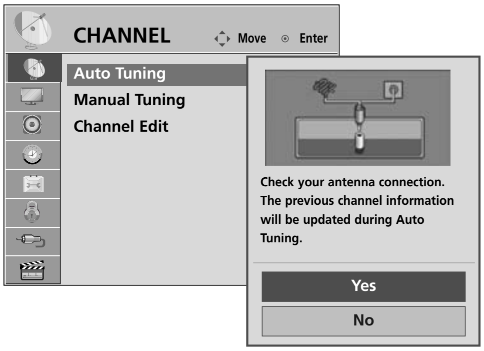
Return to TV viewing.

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.


CHANNEL
Move
Enter
Auto Tuning
Manual Tuning
Channel Edit


CHANNEL
Move
Enter
Auto Tuning
Manual Tuning
Channel Edit
Yes
No

Check your antenna connection. The previous channel information will be updated during Auto Tuning.

---

1 MENU Select **CHANNEL**.

2 ENTER Select **Auto Tuning**.

3 ENTER Select **Yes**.

4 ENTER Run **Auto tuning**.

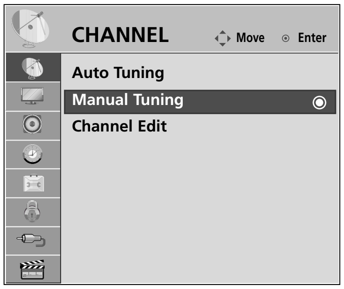
5 RETURN Return to the previous menu.

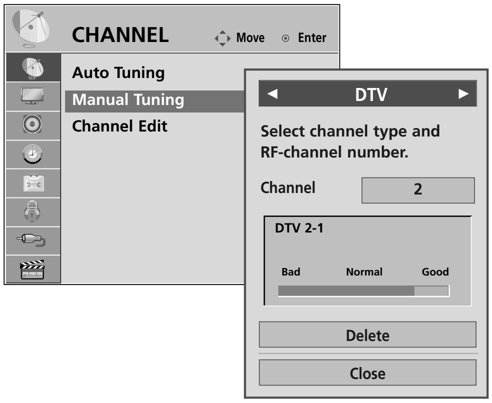
MENU Return to TV viewing.

- 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.

Add/Delete Channel (Manual Tuning)

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


CHANNEL
Move
Enter
Auto Tuning
Manual Tuning
Channel Edit


CHANNEL
Move
Enter
Auto Tuning
Manual Tuning
Channel Edit
DTV
Channel
2
DTV 2-1
Bad
Normal
Good
Delete
Close

Select channel type and RF-channel number.

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.

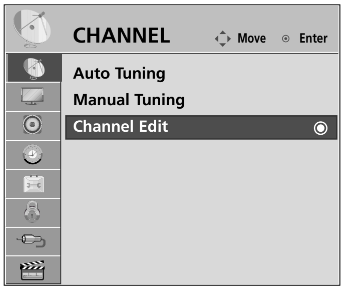
- The TV will ask for a password if parental control has been activated (LOCK Menu). Use the password you set up in the LOCK Menu to allow a channel search.

Channel Editing

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

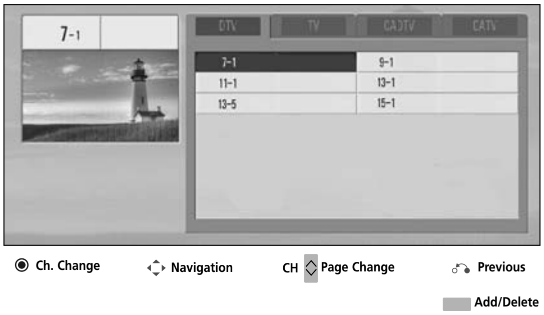
When a channel number is deleted, it means that you will be unable to select it using **CH** ∧ ∨ button during TV viewing.

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



CHANNEL
Move
Enter
Auto Tuning
Manual Tuning
Channel Edit

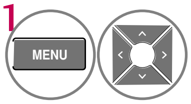
→



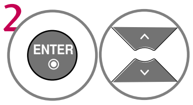
7-1
DTV
TV
CADTV
CATV

7-1	9-1
11-1	13-1
13-5	15-1

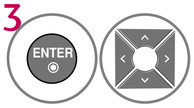
Ch. Change
Navigation
CH Page Change
Previous
Add/Delete



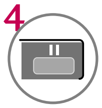
1 Select **CHANNEL**.



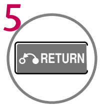
2 Select **Channel Edit**.



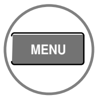
3 Select a channel.



4 Add or delete a channel.



5 Return to the previous menu.

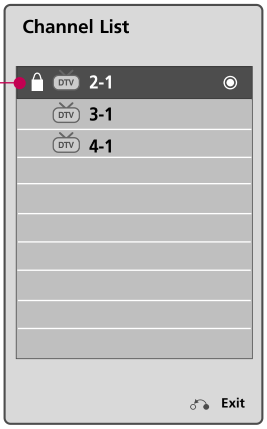


Return to TV viewing.

CHANNEL LIST

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

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



Displaying Channel List

1 LIST Display the **Channel List**.

Selecting a channel in the channel list

1 Select a channel.

2 ENTER Switch to the chosen channel number.

Paging through a channel list

1 CH PAGE Turn the pages.

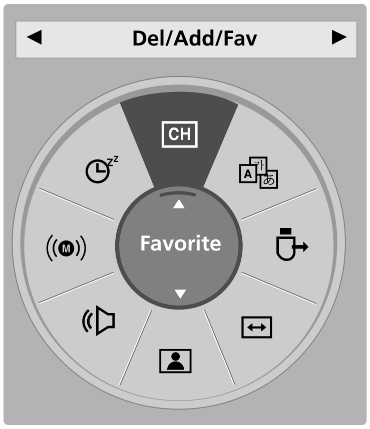
2 RETURN Return to TV viewing.

WATCHING TV / CHANNEL CONTROL

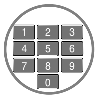
FAVORITE CHANNEL SETUP

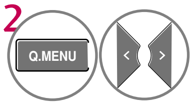
Favorite Channels are a convenient feature that lets you quickly select channels of your choice without waiting for the TV to select all the in-between channels.

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

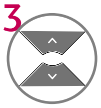

Del/Add/Fav
CH
Favorite

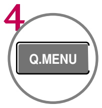
1

or

1
2
3
4
5
6
7
8
9
0
Select your desired channel.

2


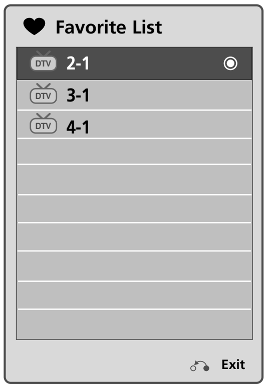
Select **Del/Add/Fav**.

3

Select **Favorite**.

4


Return to TV viewing.

FAVORITE CHANNEL LIST

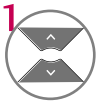

Favorite List
DTV 2-1
DTV 3-1
DTV 4-1
Exit

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

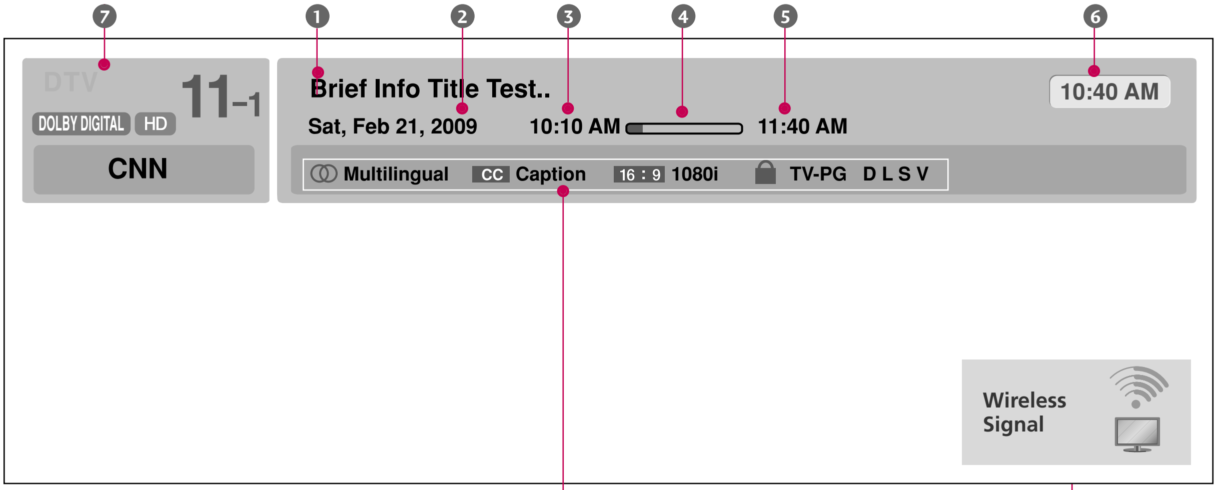
Return to TV viewing.

BRIEF INFORMATION

Brief Info shows the present screen information.

1 INFO ⓘ Show the Brief Info on the screen.

2 RETURN Return to TV viewing.



7
1
2
3
4
5
6
DTV
11-1
DOLBY DIGITAL
HD
CNN
Brief Info Title Test..
Sat, Feb 21, 2009
10:10 AM
11:40 AM
10:40 AM
Multilingual
CC Caption
16 : 9 1080i
TV-PG D L S V
Wireless Signal

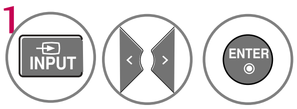
⚭	**Multilingual** : The program contains two or more audio services. Use the **Q.MENU** menu to select wanted Audio.
CC	**Caption** : The program contains one or more caption services. Use the **Q.MENU** menu to select wanted Closed caption.
4:3 16:9	The original aspect ratio of the video is 4:3 The original aspect ratio of the video is 16:9 (wide)
480i 480p 720p 1080i 1080p	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)

❶ Program title
❷ Day, Month, Year
❸ Program start time
Program progress bar
Program finish time
Present time
Banner information

INPUT LIST

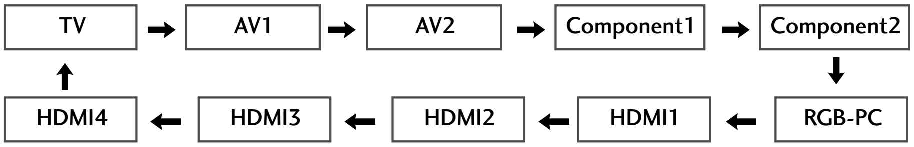
Only these input signals which are connected to a TV can be activated and selected.

1

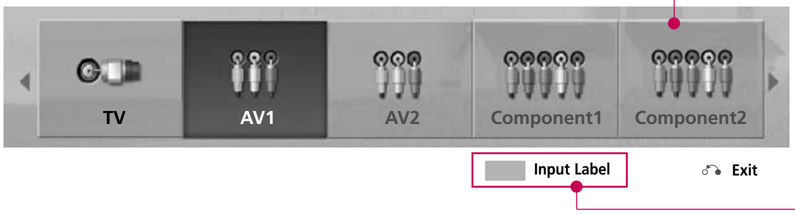

INPUT
ENTER

Select the desired input source.

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


TV
AV1
AV2
Component1
Component2
RGB-PC
HDMI1
HDMI2
HDMI3
HDMI4

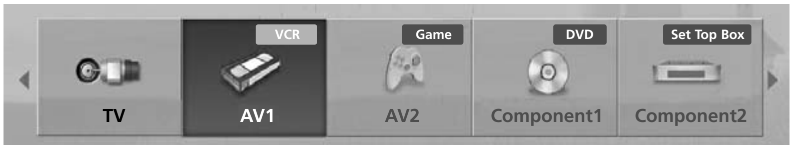
ie)


TV
AV1
AV2
Component1
Component2
Input Label
Exit

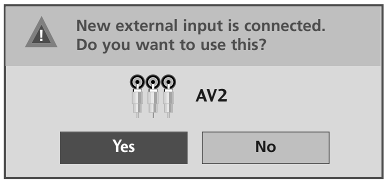
Disconnected inputs are inactive (grayed out)

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


VCR
Game
DVD
Set Top Box
TV
AV1
AV2
Component1
Component2

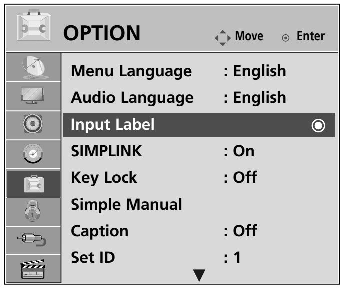
- When new external device is connected, this popup menu is displayed automatically.
  If selecting **Yes**, you can select input source that you want to appreciate.
- But, when selecting "**SIMPLINK - On**", popup menu for HDMI input will not be displayed.


New external input is connected.
Do you want to use this?

- **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

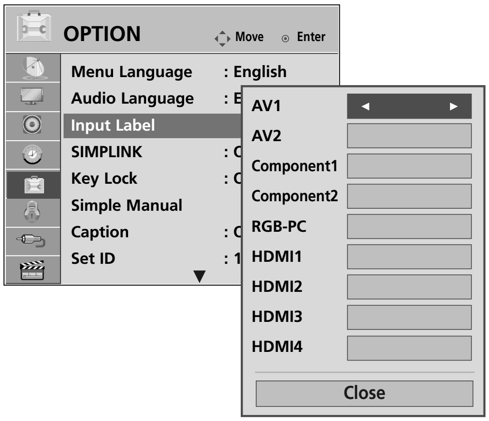
You can set a label for each input source when it's not in use.



OPTION ⟡ Move ⊙ Enter

Menu Language : English
Audio Language : English
Input Label ⊙
SIMPLINK : On
Key Lock : Off
Simple Manual
Caption : Off
Set ID : 1
▼

➡



OPTION ⟡ Move ⊙ Enter

Menu Language : English
Audio Language : E
Input Label
SIMPLINK : C
Key Lock : C
Simple Manual
Caption : C
Set ID : 1
▼

AV1	◄ ►
AV2	
Component1	
Component2	
RGB-PC	
HDMI1	
HDMI2	
HDMI3	
HDMI4	

Close

With using OPTION menu

1 MENU Select **OPTION**.

2 ENTER Select **Input Label**.

3 ENTER Select the source.

4 Select the label.

5 RETURN Return to the previous menu.

MENU Return to TV viewing.

With using INPUT button

1 INPUT Select the source.

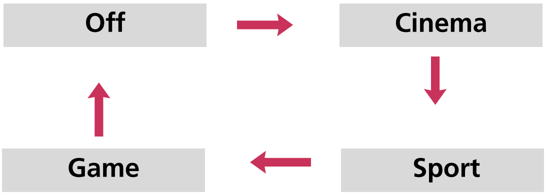
2 Select the label.

3 RETURN Return to the previous menu.

MENU Return to TV viewing.

AV MODE

AV Mode toggles through preset Video and Audio settings.

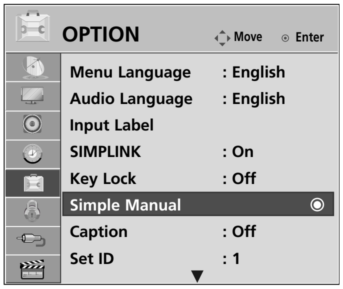


1. Press the **AV MODE** button repeatedly to select the desired source.
2.

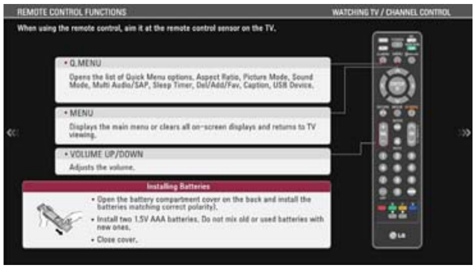
- If you select "**Cinema**" in AV mode, **Cinema** will be selected both for "PICTURE menu - Picture Mode" and "AUDIO menu - Sound Mode" respectively.
- If you select "**Off**" in AV mode, the "**Picture Mode**" and "**Sound Mode**" return to previous selected value.
- **Off**: Disables the AV MODE.
- **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.

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.



Menu Language : English
Audio Language : English
Input Label
SIMPLINK : On
Key Lock : Off
Simple Manual
Caption : Off
Set ID : 1



REMOTE CONTROL FUNCTIONS — WATCHING TV / CHANNEL CONTROL

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

- Q.MENU: Opens the list of Quick Menu options, Aspect Ratio, Picture Mode, Sound Mode, Multi Audio/SAP, Sleep Timer, Del/Add/Fav, Caption, USB Device.
- MENU: Displays the main menu or clears all on-screen displays and returns to TV viewing.
- VOLUME UP/DOWN: Adjusts the volume.

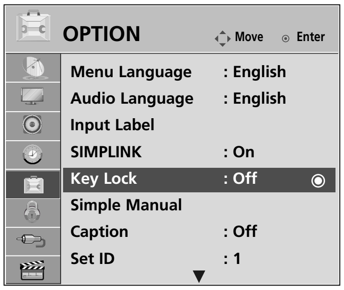
Installing Batteries

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

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

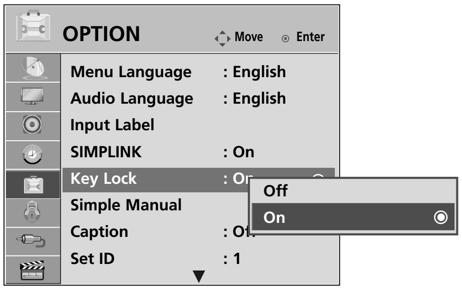
The TV can be set up so that it can only be used with the remote control.
This feature can be used to prevent unauthorized viewing by locking out the front panel controls.
This TV is programmed to remember which option it was last set to even if you turn the TV off.



OPTION ◇ Move ⊙ Enter

Menu Language : English
Audio Language : English
Input Label
SIMPLINK : On
Key Lock : Off
Simple Manual
Caption : Off
Set ID : 1

➡



OPTION ◇ Move ⊙ Enter

Menu Language : English
Audio Language : English
Input Label
SIMPLINK : On
Key Lock : On
Simple Manual
Caption : Off
Set ID : 1

Off
On

1 MENU Select **OPTION**.

2 ENTER Select **Key Lock**.

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

4 RETURN Return to the previous menu.

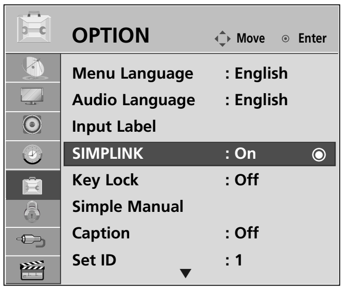
MENU Return to TV viewing.

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

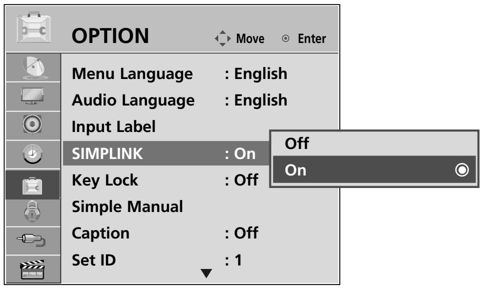
SIMPLINK

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

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



Menu Language : English
Audio Language : English
Input Label
SIMPLINK : On
Key Lock : Off
Simple Manual
Caption : Off
Set ID : 1



Menu Language : English
Audio Language : English
Input Label
SIMPLINK : On
Key Lock : Off
Simple Manual
Caption : Off
Set ID : 1
Off
On

1 Select **OPTION**.

2 Select **SIMPLINK**.

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

4 Return to the previous menu.

Return to TV viewing.

NOTE

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

SIMPLINK Functions

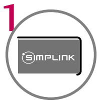
- **Direct Play:** After connecting AV devices to the TV, you can directly control the devices and play media without additional settings.
- **Select AV device:** Enables you to select one of the AV devices connected to TV.
- **Disc playback:** Control connected AV devices by pressing the ∧ ∨ < > , ENTER,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

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

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

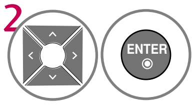
SIMPLINK Menu

1



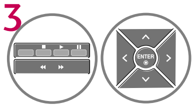
Display **SIMPLINK** menu.

2

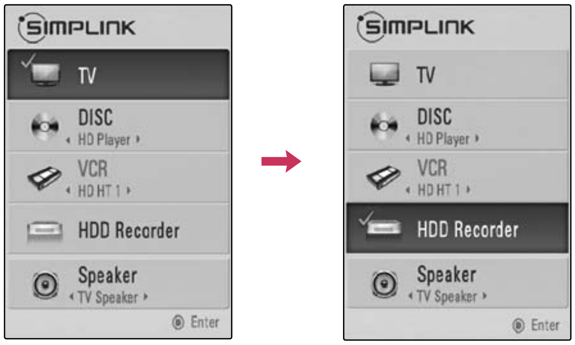


Select the desired device.

3



Control connected AV devices.


SIMPLINK
TV
DISC
HD Player
VCR
HD HT 1
HDD Recorder
Speaker
TV Speaker
Enter
SIMPLINK
TV
DISC
HD Player
VCR
HD HT 1
HDD Recorder
Speaker
TV Speaker
Enter

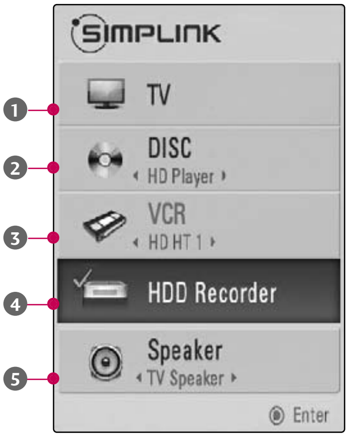
❶ **TV viewing**: Switch to the previous TV channel regardless of the current mode.

❷ **DISC playback**: Select and play discs. When multiple discs are available, the titles of discs are conveniently displayed at the bottom of the screen.

❸ **VCR playback**: Control the connected VCR.

❹ **HDD Recordings playback**: Control recordings stored in HDD.

❺ **Audio Out to Home Theater speaker/Audio Out to TV**: Select Home Theater speaker or TV speaker for Audio Out.


SIMPLINK
TV
DISC
HD Player
VCR
HD HT 1
HDD Recorder
Speaker
TV Speaker
Enter
1
2
3
4
5

▶ When no device is connected (displayed in gray)

▶ Selected Device

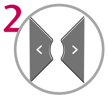
▶ When a device is connected (displayed in bright color)

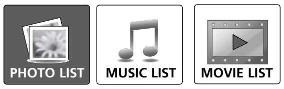
ENTRY MODES

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 or Music List in the USB menu.
In USB device, you can not add a new folder or delete the existing folder.

1 Connect the USB device to the **USB IN** jacks on the TV.

- This TV supports JPG and MP3 files.

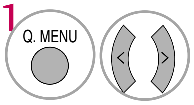
2 
Select **PHOTO LIST**, **MUSIC LIST** or **MOVIE LIST**.



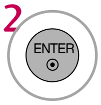
3

When removing the USB device

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

1 

Select **USB Device**.

2 

Select **Eject**.

Precautions when using the USB device

- Only a USB storage device is recognizable.
- If the USB storage device is connected through a USB hub, the device is not recognizable.
- A USB storage device using an automatic recognition program may not be recognized.
- A USB storage device which uses its own driver may not be recognized.
- The recognition speed of a USB storage device may depend on each device.
- Please do not turn off the TV or unplug the USB device when the connected USB storage device is working. When such device is suddenly separated or unplugged, the stored files or the USB storage device may be damaged.
- Only use a USB storage device which has normal music files or image 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. In case of a storage device formatted as a different utility program which is not supported by Windows, it may not be recognized.
- Please connect power to a USB storage device (over 0.5A) which requires an external power supply. If not, the device may not be recognized.
- Please connect a USB storage device with cable is offered by USB maker. If connected with cable is not offered by USB maker or an excessively long cable, the device may not be recognized.
- Some USB storage devices may not be supported or operate properly.
- Please backup important files because data on USB device may be damaged. Data management is consumer's responsibility and as a result, the manufacturer does not cover data damage.
- If your USB memory device has multiple partitions, or if you use a USB multi-card reader, you can use up to 4 partitions or USB memory devices.

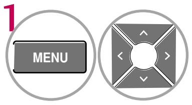
PHOTO LIST

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

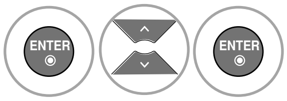
Supported photo file: *.JPG

- You can play JPG files only.
- Only baseline scan is supported among JPG.

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

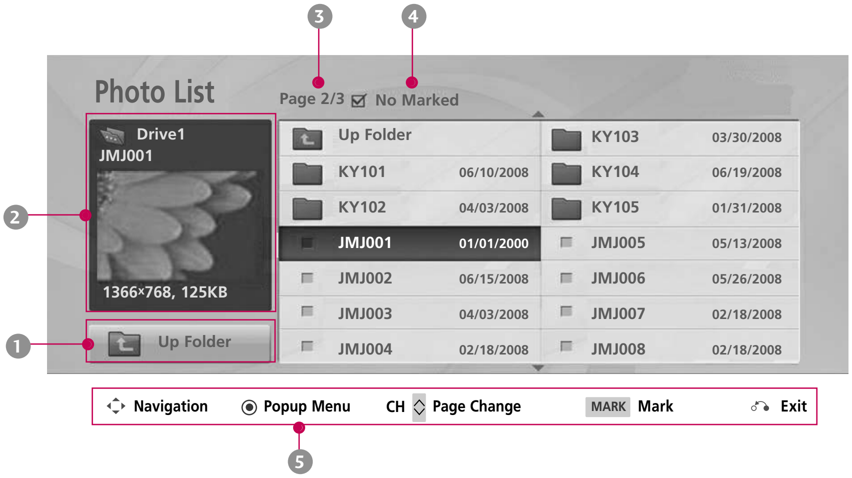


Photo List Page 2/3 ☑ No Marked

Drive1
JMJ001
1366×768, 125KB

Up Folder

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

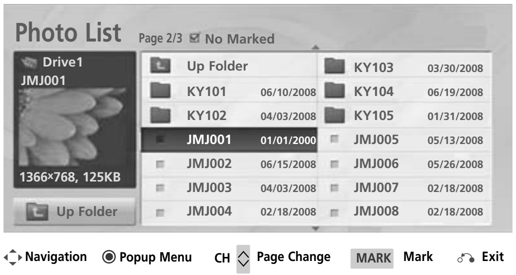


Photo List
Page 2/3
☑ No Marked
Drive1
JMJ001
1366x768, 125KB
Up Folder
Up Folder
KY101 06/10/2008
KY102 04/03/2008
JMJ001 01/01/2000
JMJ002 06/15/2008
JMJ003 04/03/2008
JMJ004 02/18/2008
KY103 03/30/2008
KY104 06/19/2008
KY105 01/31/2008
JMJ005 05/13/2008
JMJ006 05/26/2008
JMJ007 02/18/2008
JMJ008 02/18/2008
Navigation
Popup Menu
CH
Page Change
MARK
Mark
Exit

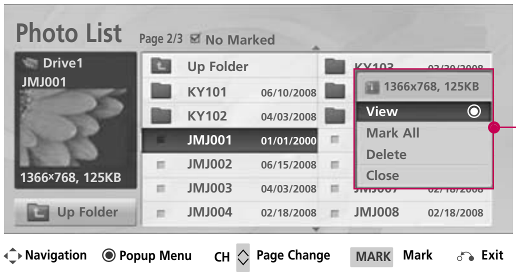
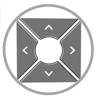


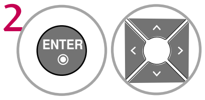
Photo List
Page 2/3
☑ No Marked
Drive1
JMJ001
1366x768, 125KB
Up Folder
Up Folder
KY101 06/10/2008
KY102 04/03/2008
JMJ001 01/01/2000
JMJ002 06/15/2008
JMJ003 04/03/2008
JMJ004 02/18/2008
JMJ008 02/18/2008
1366x768, 125KB
View
Mark All
Delete
Close
Navigation
Popup Menu
CH
Page Change
MARK
Mark
Exit

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

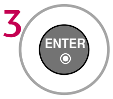
- **View**: Display the selected item.
- **Mark All**: Mark all photos on the screen.
- **Unmark All**: Deselect all marked photos.
- **Delete**: Delete the selected photo item.
- **Close**: Close the pop-up menu.

---

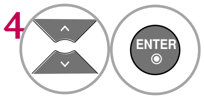
1 
Select the target folder or drive.

2 

Select the desired photos.

3 

Show the Popup menu.

4 

Select the desired Popup menu.

- Use the **CH** ∧ ∨ 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.

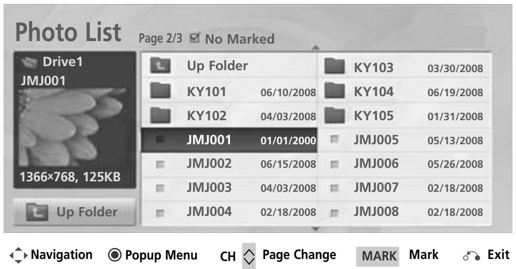


Photo List
Page 2/3 ☑ No Marked
Drive1
JMJ001
1366x768, 125KB
Up Folder
Up Folder
KY101 06/10/2008
KY102 04/03/2008
JMJ001 01/01/2000
JMJ002 06/15/2008
JMJ003 04/03/2008
JMJ004 02/18/2008
KY103 03/30/2008
KY104 06/19/2008
KY105 01/31/2008
JMJ005 05/13/2008
JMJ006 05/26/2008
JMJ007 02/18/2008
JMJ008 02/18/2008
Navigation
Popup Menu
CH Page Change
MARK Mark
Exit

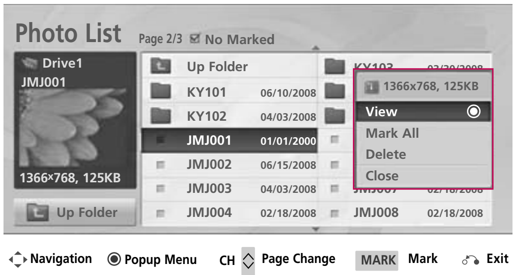
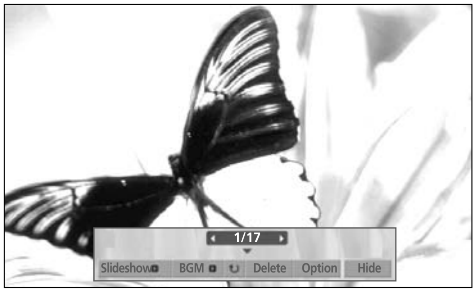


Photo List
Page 2/3 ☑ No Marked
Drive1
JMJ001
1366x768, 125KB
Up Folder
Up Folder
KY101 06/10/2008
KY102 04/03/2008
JMJ001 01/01/2000
JMJ002 06/15/2008
JMJ003 04/03/2008
JMJ004 02/18/2008
JMJ008 02/18/2008
1366x768, 125KB
View
Mark All
Delete
Close
Navigation
Popup Menu
CH Page Change
MARK Mark
Exit


1/17
Slideshow
BGM
Delete
Option
Hide

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.

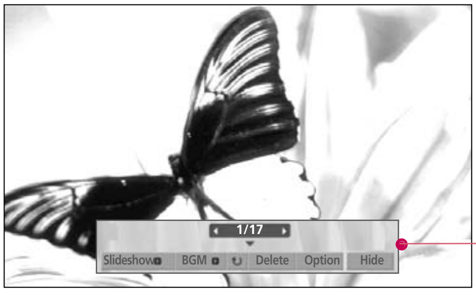
2 Select the desired photos.

3 Show the Popup menu.

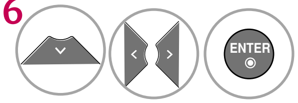
4 Select **View**.

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 ∧ ∨ < > 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.

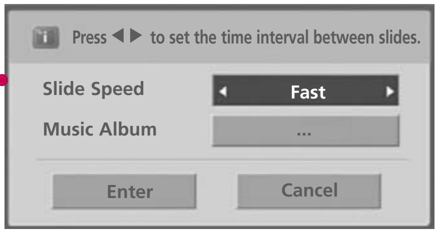
▶ **Delete**: Delete photos.

▶ **Option**: Set values for **Slide Speed** and **Music Album**.

- Use ∧ ∨ < > button and **ENTER** button to set values. Then go to Enter 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.



Press ◀ ▶ to set the time interval between slides.

Slide Speed: Fast

Music Album: ...

NOTE

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