LG
Life's Good

OWNER'S MANUAL

LED LCD TV / LCD TV
PLASMA TV

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

P/NO : SAC34134203 (1001-REV03)

www.lge.com

WARNING / CAUTION

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

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

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

WARNING/CAUTION

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

NOTE TO CABLE/TV INSTALLER

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

WARNING / CAUTION

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

FCC Notice

Class B digital device

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

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

This device complies with part 15 of the FCC Rules.

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

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

CAUTION

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

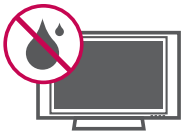
Unauthorized modification could void the user's authority to operate this product.

SAFETY INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS

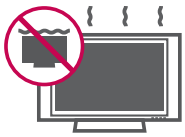
Read these instructions.
Keep these instructions.
Heed all warnings.
Follow all instructions.

1. Do not use this apparatus near water.



2. Clean only with dry cloth.

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

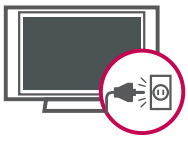
5. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong, The wide blade or the third prong are provided for your safety. If the provided plug does not fit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

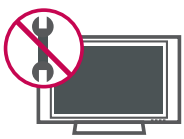
7. Only use attachments/accessories specified by the manufacturer.

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 use a damaged or loose power cord. Do not pull on the power cord to unplug the TV. Grasp the plug when unplugging the power cord.

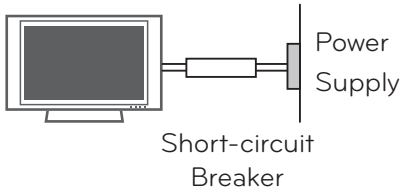
15 WARNING - To reduce the risk of fire or electrical shock, do not expose this product to rain, moisture or other liquids. Do not touch the TV with wet hands. Do not install this product near flammable objects such as gasoline or candles or expose the TV to direct air conditioning.

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

17 **GROUNDING**

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

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



18 **DISCONNECTING DEVICE FROM MAINS**

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

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

20 ANTENNAS

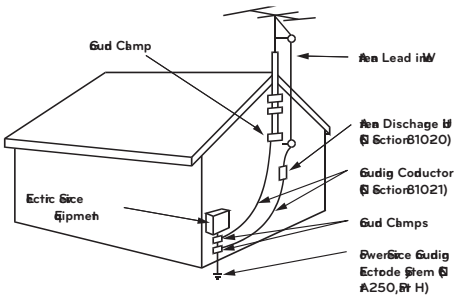
Outdoor antenna grounding

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

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

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

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



NEC: National Electrical Code

21 Cleaning

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

22 Moving

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

23 Ventilation

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

24

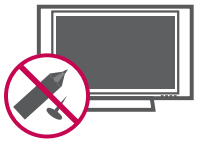
Take care not to touch the ventilation openings. When watching the TV for a long period, the ventilation openings may become hot.

25

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

26

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



27

Keep the product away from direct sunlight.

28 For LED LCD TV/LCD TV

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

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

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

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FEATURE OF THIS TV

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

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

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

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

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

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

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

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

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

This TV contains the detailed calibrations necessary for professional certification by the Imaging Science Foundation. The resulting ISF "day" and "night" modes will then be accessible by the user to experience the best their LG HDTV has to offer.
Sophisticated and detailed calibrations can be made through the ISFccc mode.
Detailed calibration requires a licensed technician.
Please contact your local dealer to inquire about an ISF certified technician.

THX (Thomlinson Holman's Experiment) is an audio and video certification standard established by George Lucas and Thomlinson. A THX certified display guarantees screen quality that exceeds the display standard specification in both hardware and software.

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

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

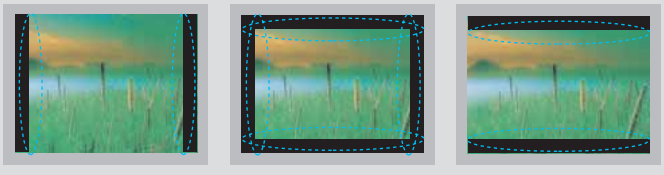
AV Mode is three preset picture and audio settings. It allows the viewer to quickly switch between common settings. It includes Cinema, Sports, and Game Modes.

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

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

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

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



ON DISPOSAL

(Only Hg lamp used LCD TV)

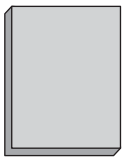
The fluorescent lamp used in this product contains a small amount of mercury. Do not dispose of this product with general household waste. Disposal of this product must be carried out in accordance to the regulations of your local authority.

PREPARATION

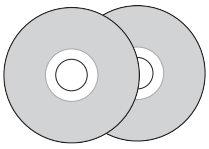
ACCESSORIES

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

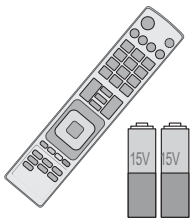
The accessories included may differ from the images below.



Owner's Manual

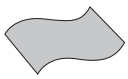


CD Manual,
Nero MediaHome 4
Essentials CD



Remote Control,
Batteries (AAA)

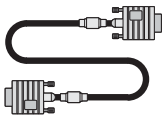
Not included with all models



Polishing Cloth

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

Option Extras



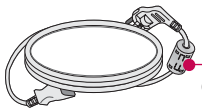
D-sub 15 pin Cable

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

Not included with all models

Ferrite Core
(Black)

Ferrite core can be used to reduce the electromagnetic waves that may interfere with the TV. Install the Ferrite core on the power cable close to the wall plug.



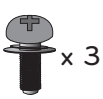
Close to the wall plug.

Ferrite Core
(White)

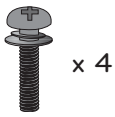
Ferrite core can be used to reduce the electromagnetic wave when connecting the LAN cable. Place the ferrite core far from TV and wind the LAN cable in the ferrite core once.

50/60PK750, 50/60PK950

(For 50PK750)



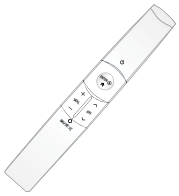
(M5 x 14)



(M4 x 28)

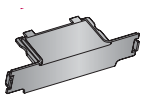
Screws for stand assembly
(Refer to P.20)

(For 50/60PK950)



Motion Remote
Control

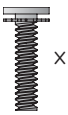
Cable Holder
(Refer to p.28)



Protection Cover
(Refer to p.21)

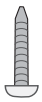
Power Cord

32/42/46/52/60LD550, 47/55LD650



Screws for stand assembly
(Refer to P.22)

(For 32/42LD550)



Screw for stand fixing
(Refer to P.32)

Protection Cover
(Refer to P.23)

Power Cord

42/47/55LE5400, 42/47/55LE5500, 42/47/55LE7500, 47/55LE8500

(47/55LE8500)

(M4 x 20)

(55LE5500, 55LE7500)

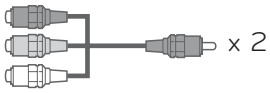
(M4 x 24) (M4 x 16)

(Other models)

(M4 x 16)

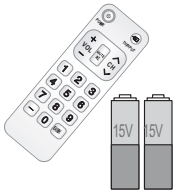
Screws for stand assembly
(Refer to P.24)

Cable Holder
(Refer to p.30)

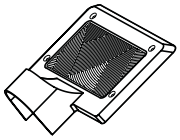


Component gender cable,
AV gender cable

(For 42/47/55LE7500, 47/55LE8500)

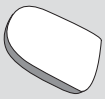


Simple Remote Control,
Batteries (AAA)

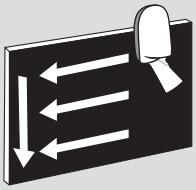


Stand Rear Cover

(For 42/47/55LE7500)



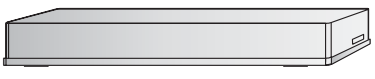
Polishing Cloth



* Wipe spots on the exterior only with the polishing cloth.
* Do not wipe roughly when removing stains. Excessive pressure may cause scratches or discoloration.
* For cleaning front frame, please slowly wipe in one direction after spraying water 1-2 times on cleansing cloths. Please remove excessive moisture after cleaning. Excessive moisture may cause water stains on the frame.

OPTIONAL EXTRAS

Optional extras can be changed or modified for quality improvement without any notification.
Contact your dealer for buying these items.
This device only works with compatible LG LED LCD TV, LCD TV, or Plasma TV.



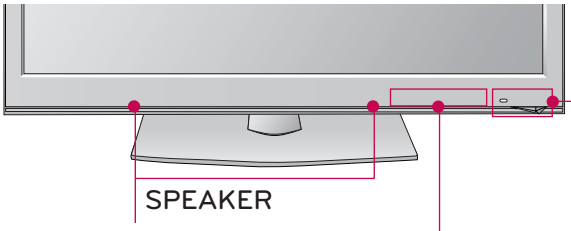
Wireless Media Box
(AN-WL100W)

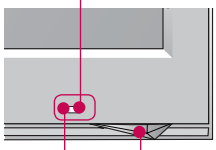
Wireless LAN for Broadband/
DLNA Adaptor
(AN-WF100)

FRONT PANEL INFORMATION

- Image shown may differ from your TV.

50/60K750





Remote Control Sensor

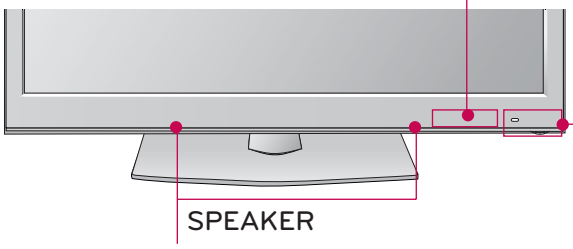
Power/Standby Indicator
Illuminates red in standby mode.

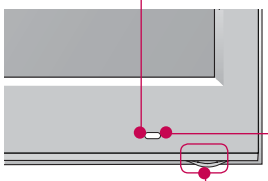
Intelligent Sensor
Adjusts picture according to the surrounding conditions

Touch Button
You can operate the button just by touching the button lightly with your finger.

POWER Button | INPUT Button | MENU Button | ENTER Button | VOLUME (-, +) Buttons | CHANNEL (∨, ∧) Buttons

50/60R950





Intelligent Sensor
Adjusts picture according to the surrounding conditions

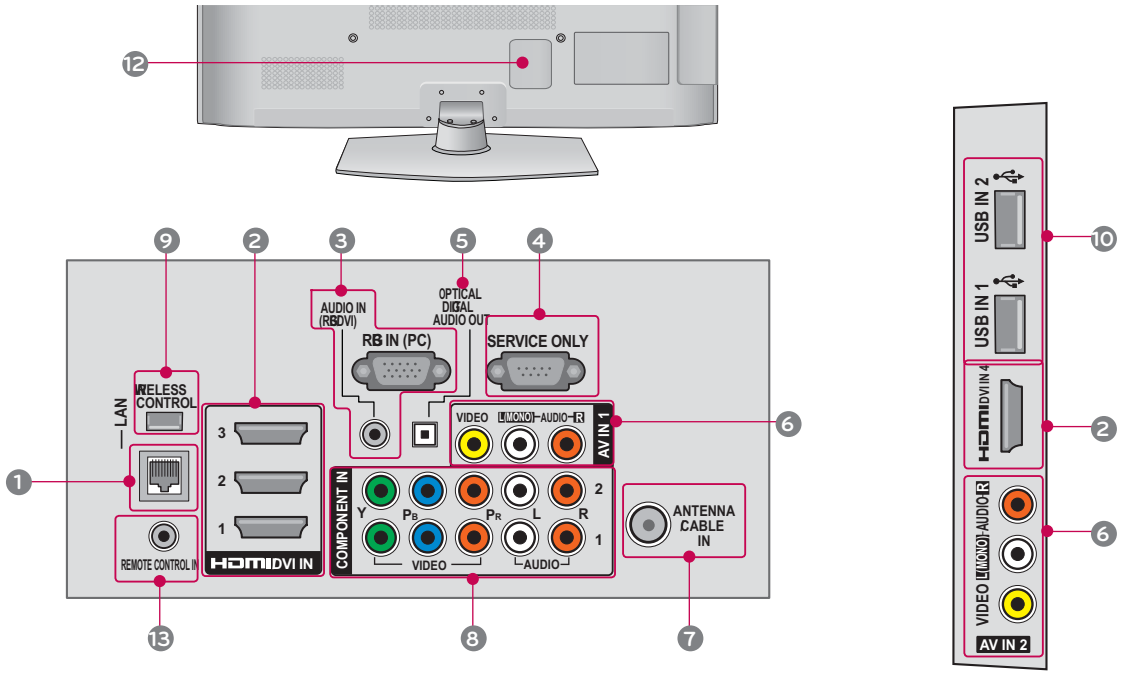
Remote Control Sensor

Power/Standby Indicator
Illuminates red in standby mode.
The lighting is off while the TV remains on.

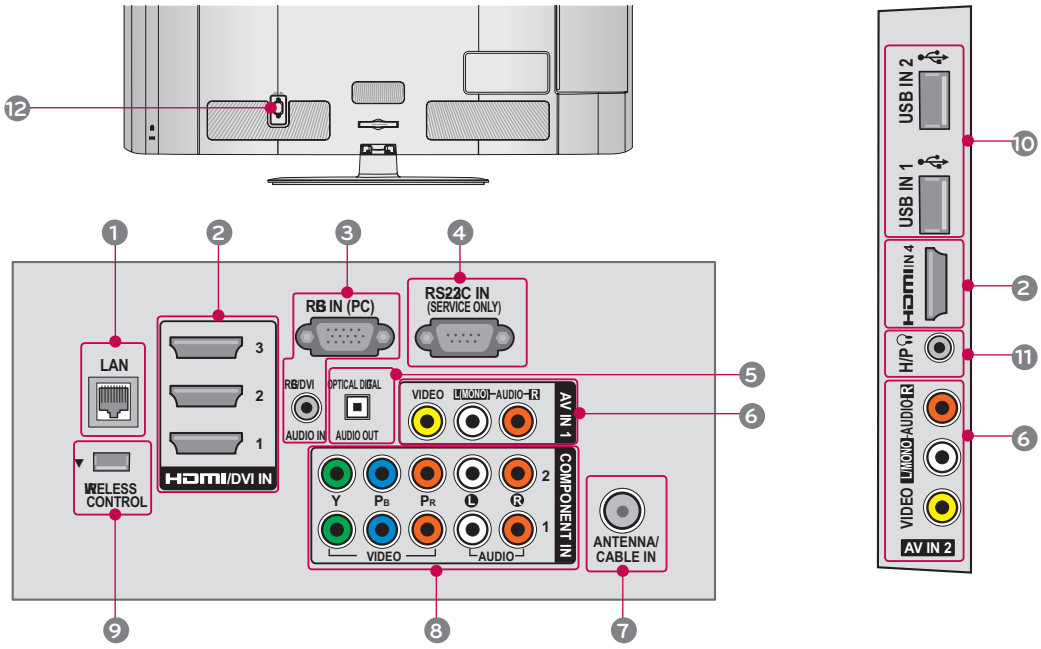
BACK PANEL INFORMATION

■ Image shown may differ from your TV.

50/60PT750,50/60PT950



32/42/46/52/60LD550,47/55LD650



1 LAN

Network connection for Netflix, Yahoo! TV Widgets, etc (for USA).

Also used for video, photo and music files on a local network.

2 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).

3 RGB IN (PC)

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

AUDIO IN (RGB/DVI)

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

4 RS-232C IN (SERVICE ONLY), SERVICE ONLY

This port is used for service.

5 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.

6 AV (Audio/Video) IN

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

7 ANTENNA/CABLE IN

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

8 COMPONENT IN

Analog Connection.

Supports HD.

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

9 WIRELESS CONTROL

Connect the Wireless Ready Dongle to the TV to control the external input devices connected to Media Box wirelessly.

10 USB INPUT

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

11 HEADPHONE

0.32 cm (1/8 inch) headphone jack

Impedance 16 Ω , Maximum audio out 15 mW

12 Power Cord or Socket

For operation with AC power.

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

13 REMOTE CONTROL IN

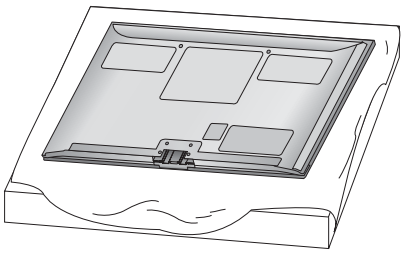
For a wired remote control.

STAND INSTRUCTIONS (For 50/60PK750,50/60PK950)

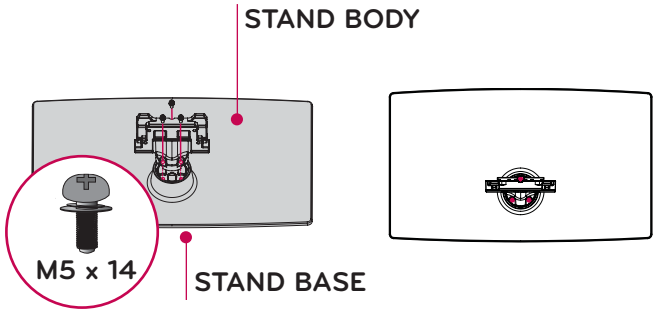
■ Image shown may differ from your TV.

INSTALLATION (For 50PK750, 50PK950)

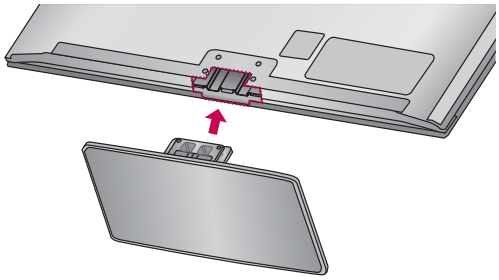
1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



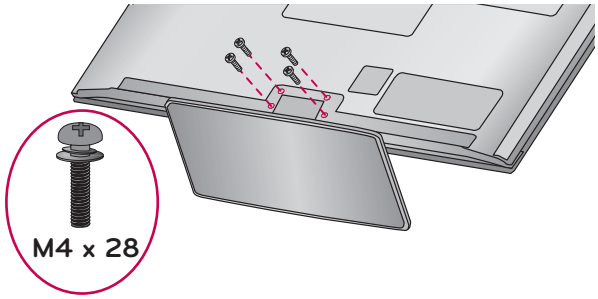
2 Assemble the parts of the **STAND BODY** with the **STAND BASE** of the TV.



3 Assemble the TV as shown.



4 Install the 4 screws into the holes shown.

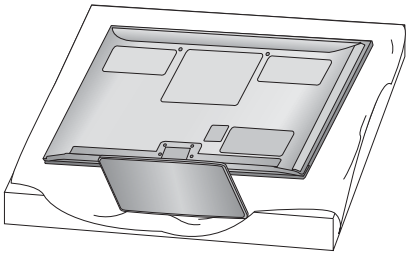


NOTE

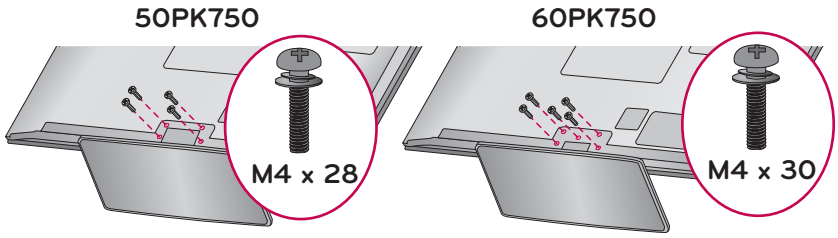
▶ When assembling the desk type stand, make sure the screws are fully tightened (If not tightened fully, the TV can tilt forward after the product installation). Do not over tighten.

DETACHMENT

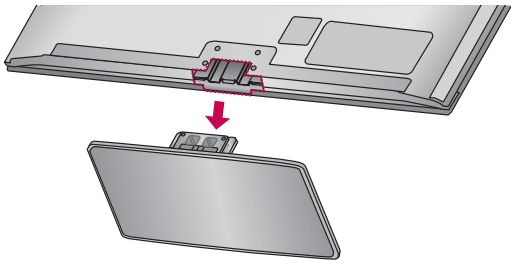
1. Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



2. Remove the screws that hold the stand on.



3. Detach the stand from TV.

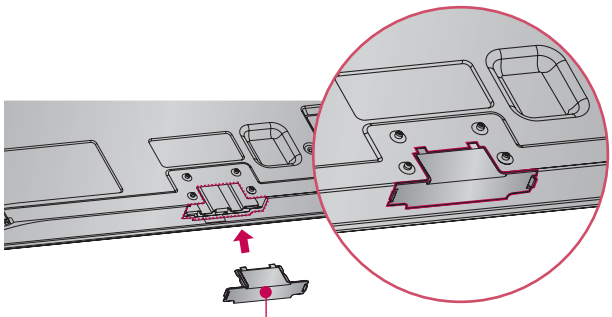


PROTECTION COVER

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

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

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



PROTECTION COVER

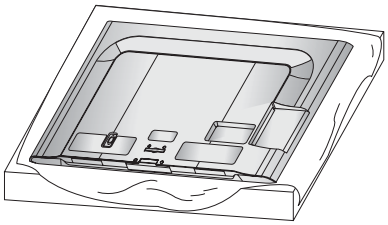
Fix a guide to the outside.

STAND INSTRUCTIONS (For 32/42/46/52/60LD550, 47/55LD650)

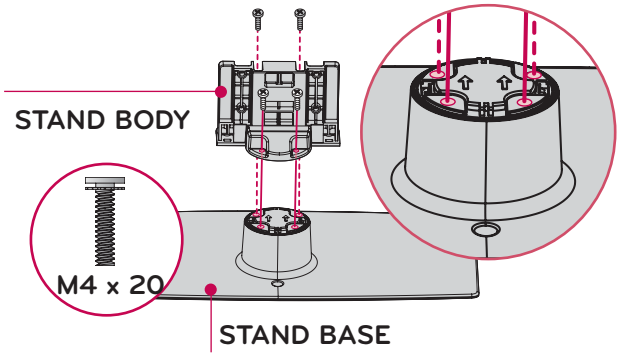
■ Image shown may differ from your TV.

INSTALLATION

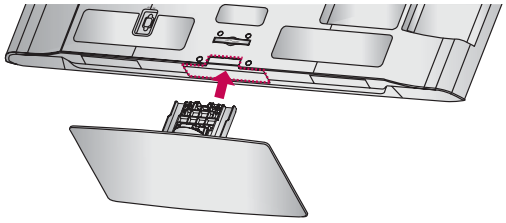
1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



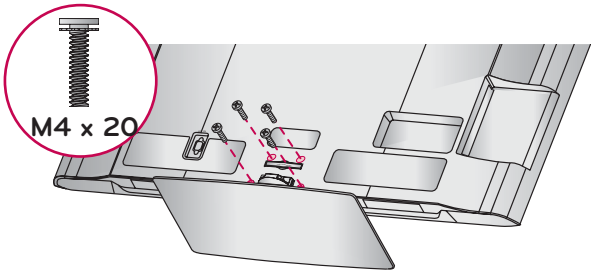
2 Assemble the parts of the **STAND BODY** with the **STAND BASE** of the TV.



3 Assemble the TV as shown.



4 Install the 4 screws into the holes shown.

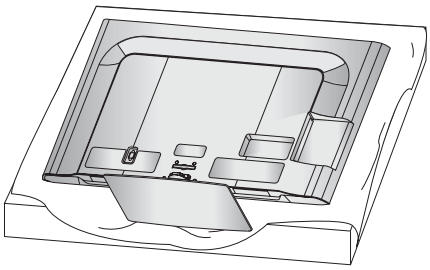


NOTE

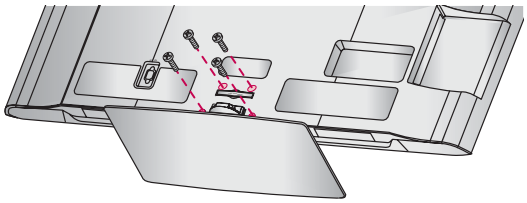
▶ When assembling the desk type stand, make sure the screws are fully tightened (If not tightened fully, the TV can tilt forward after the product installation). Do not over tighten.

DETACHMENT

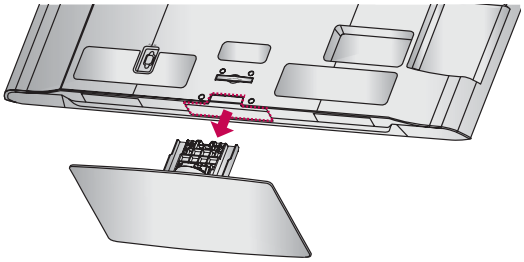
1. Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



2. Remove the screws that hold the stand on.



3. Detach the stand from TV.

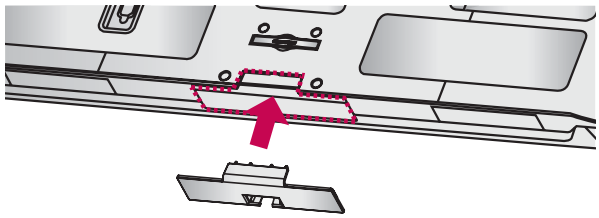


PROTECTION COVER

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

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

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



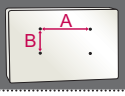
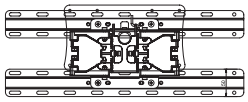
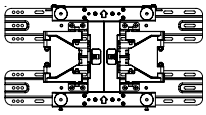
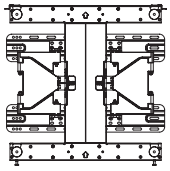
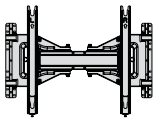
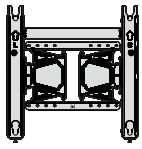
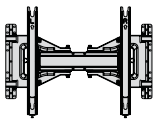
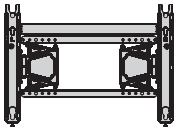
VESA WALL MOUNTING

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

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

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

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

Model	VESA (A * B) 	Standard Screw	Quantity	Wall Mounting Bracket (sold separately)
32LD550	200 * 100	M4	4	LSW100B, LSW100BG 
42/46LD550, 47LD650, 42/47LE5400, 42/47LE5500, 42/47LE7500, 47LE8500	200 * 200	M6	4	LSW200B, LSW200BG 
52LD550, 55LD650, 55LE5400, 55LE5500, 55LE7500, 55LE8500, 60LD550	400 * 400	M6	4	LSW400B, LSW400BG 
50PK750	400 * 400	M6	4	AW-50PG60M  AW-50PG60MS 
60PK750	600 * 400	M8	4	AW-60PG60M  AW-60PG60MS 

NOTE

- Screw length needed depends on the wall mount used. For further information, refer to the instructions included with the mount.
- Standard dimensions for wall mount kits are shown in the table.
- When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly are provided.
- Do not use screws longer than the standard dimension, as they may cause damage to the inside to the TV.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on their specifications.
- Do not use screws that do not comply with the VESA standard screw specifications.

  Do not use fasten the screws too strongly, this may damage the TV or cause the TV to a fall, leading to personal injury. LG is not liable for these kinds of accidents.
- LG is not liable for TV damage or personal injury when a non-VESA or non specified wall mount is used or the consumer fails to follow the TV installation instructions.

CAUTION

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

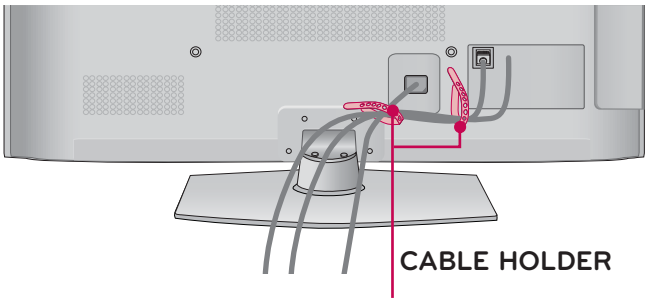
CABLE MANAGEMENT

■ Image shown may differ from your TV.

Plasma TV

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

In case of the LAN cable, install as shown to reduce the electromagnetic wave.

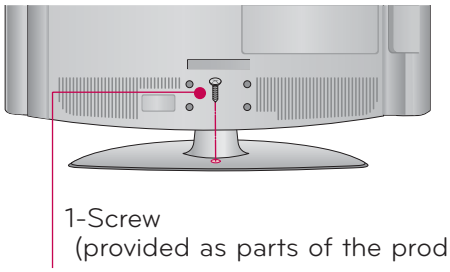


PREPARATION

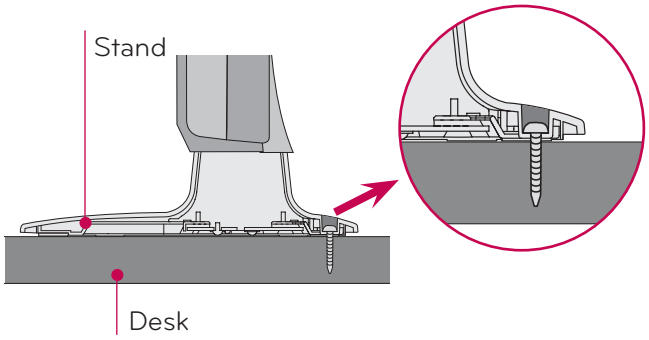
ATTACHING THE TV TO A DESK (For 32/42LD550)

■ Image shown may differ from your TV.

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



1-Screw
(provided as parts of the product)



⚠ WARNING

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

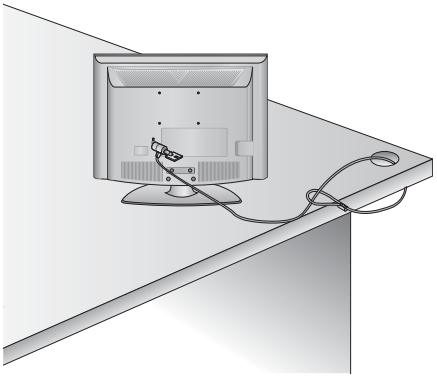
KENSINGTON SECURITY SYSTEM

■ 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.

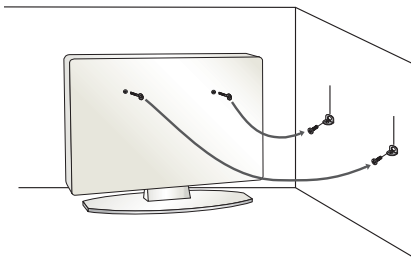
NOTE: The Kensington Security System is an optional accessory.

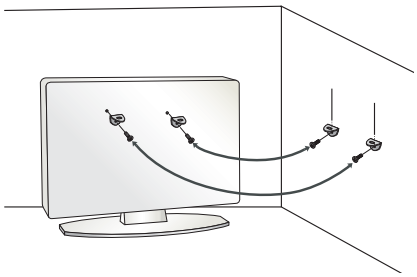


SECURING THE TV TO THE WALL TO PREVENT FALLING WHEN THE TV IS USED ON A STAND

- 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.

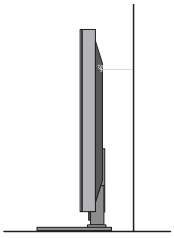
We recommend that you set up the TV close to a wall so it cannot fall over if pushed backwards.
Additionally, we recommend that the TV be attached to a wall so it cannot be pulled in a forward direction, potentially causing injury or damaging the product.
Caution: Please make sure that children don't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

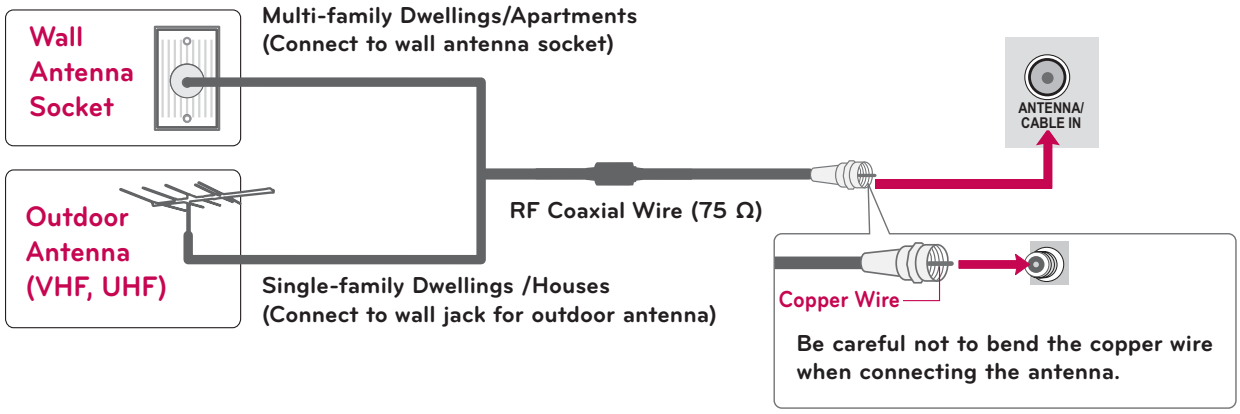
PREPARATION

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

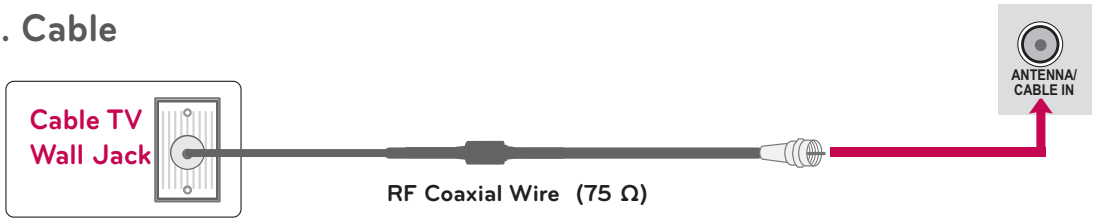
ANTENNA OR CABLE CONNECTION

1. Antenna (Analog or Digital)

Wall Antenna Socket or Outdoor Antenna without a Cable Box Connections.
For optimum picture quality, adjust antenna direction if needed.



2. Cable



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

EXTERNAL EQUIPMENT SETUP

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

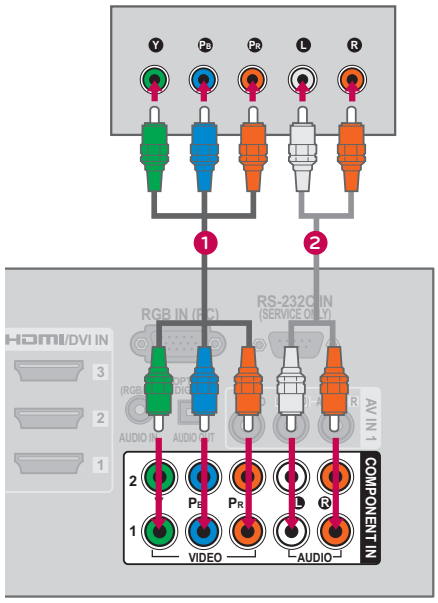
HD RECEIVER SETUP

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

Component Connection

1. How to connect

1. Connect the video outputs (Y, PB, PR) of the digital set-top box to the **COMPONENT IN VIDEO 1**, **2**, or **3*** jacks on the TV. Match the jack colors (Y = green, PB = blue, and PR = red).
2. Connect the audio output of the digital set-top box to the **COMPONENT IN AUDIO 1**, **2**, or **3*** jacks on the TV.



2. How to use

- Turn on the digital set-top box.
  (Refer to the owner's manual for the digital set-top box operation.)
- Select the **Component1**, **Component2**, or **Component3** input source on the TV using the **INPUT** button on the remote control.

** Component3: For LED LCD TV*

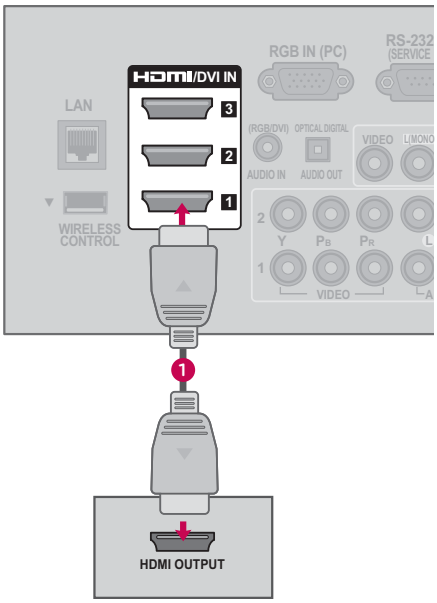
Y, CB/PB, CR/PR

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

HDMI Connection

1. How to connect

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



2. How to use

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

NOTE

- If an HDMI cable doesn't support HDMI version 1.3, it can cause flickers or no screen display. In this case use the latest cables that support HDMI version 1.3.
- HDMI Audio Supported Format: Dolby Digital (32 KHz, 44.1 KHz, 48 KHz), Linear PCM (32 KHz, 44.1 KHz, 48 KHz)

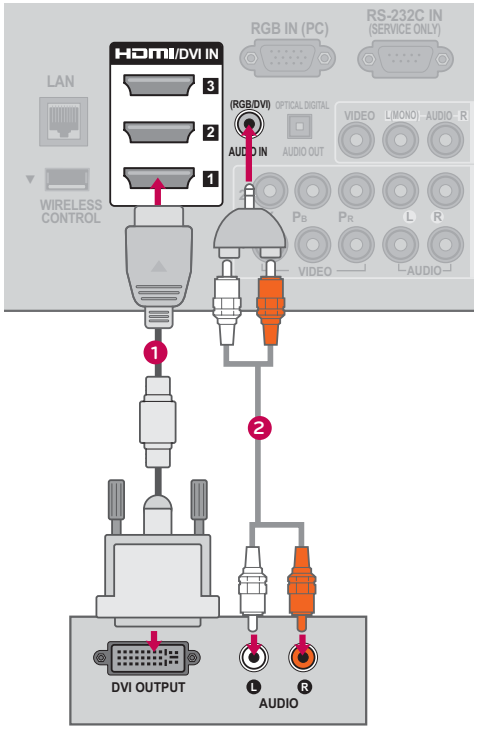
HDMI-DTV

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

DVI to HDMI Connection

1. How to connect

1. Connect the DVI output of the digital set-top box to the **HDMI/DVI IN 1**, **2**, **3**, or **4*** jack on the TV.
2. Connect the digital set-top box audio output to the **AUDIO IN (RGB/DVI)** jack on the TV.



2. How to use

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

** HDMI4: For Plasma TV*

NOTE

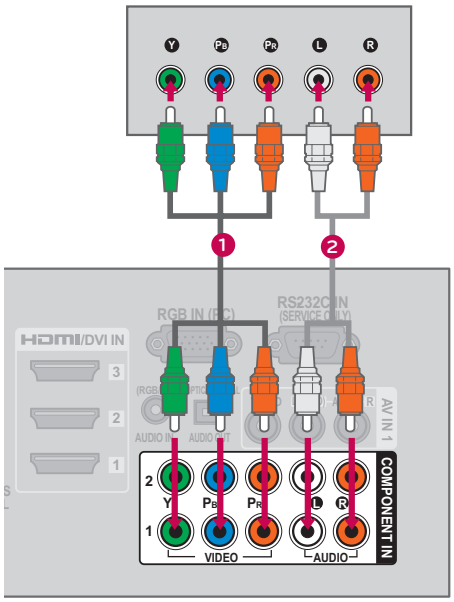
- A DVI to HDMI cable or adapter is required for this connection. DVI doesn't support audio, so a separate audio connection is necessary.

DVD SETUP

Component Connection

1. How to connect

1. Connect the video outputs (Y, P_B, P_R) of the DVD to the **COMPONENT IN VIDEO 1**, **2**, or **3*** jacks on the TV.
   Match the jack colors (Y = green, P_B = blue, and P_R = red).
2. Connect the audio outputs of the DVD to the **COMPONENT IN AUDIO 1**, **2**, or **3*** jacks on the TV.

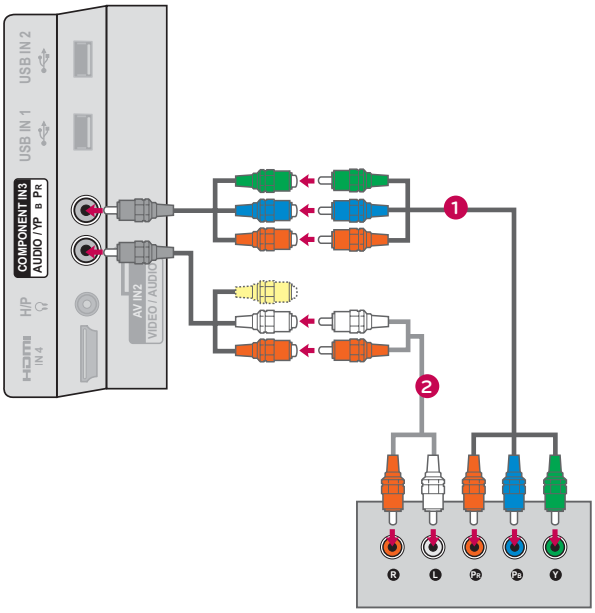


2. How to use

- Turn on the DVD player, insert a DVD.
- Select the **Component1**, **Component2**, or **Component3** input source on the TV using the **INPUT** button on the remote control.
- Refer to the DVD player's manual for operating instructions.

** Component3: For LED LCD TV*

For LED LCD TV



Component Input ports

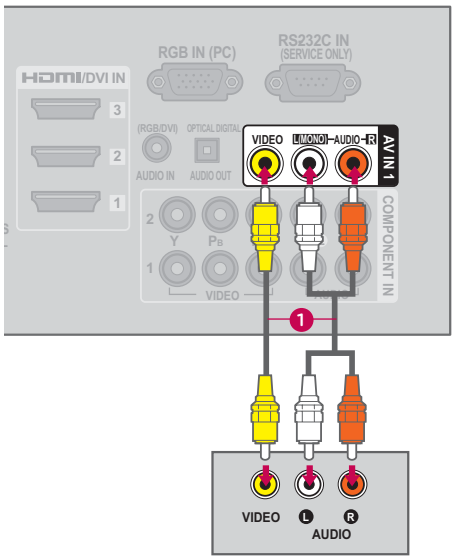
To get better picture quality, connect a DVD player to the component input ports as shown below.

Component ports on the TV	Y	P_B	P_R
Video output ports on DVD player	Y Y Y Y	P_B B-Y Cb Pb	P_R R-Y Cr Pr

Composite (RCA) Connection

1. How to connect

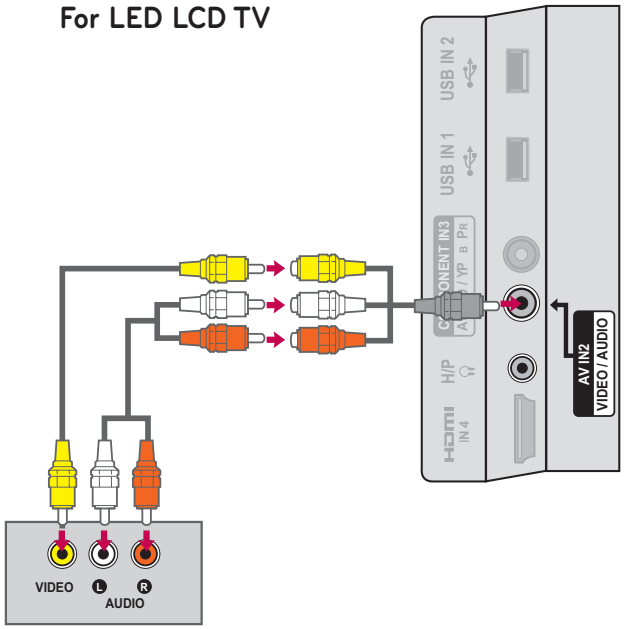
1 Connect the **AUDIO/VIDEO** jacks between TV and DVD. Match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red)



2. How to use

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

For LED LCD TV

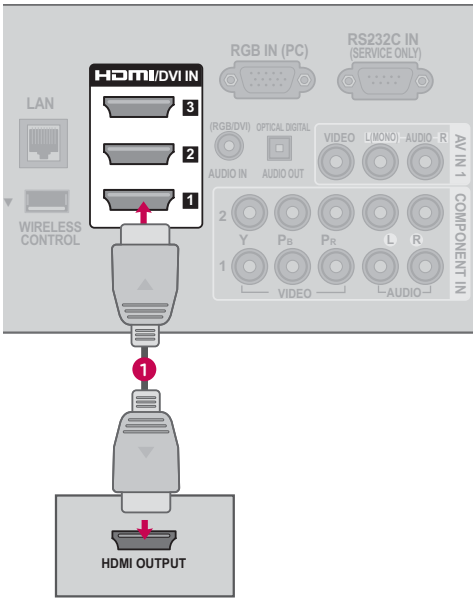


HDMI Connection

1. How to connect

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

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



2. How to use

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

NOTE

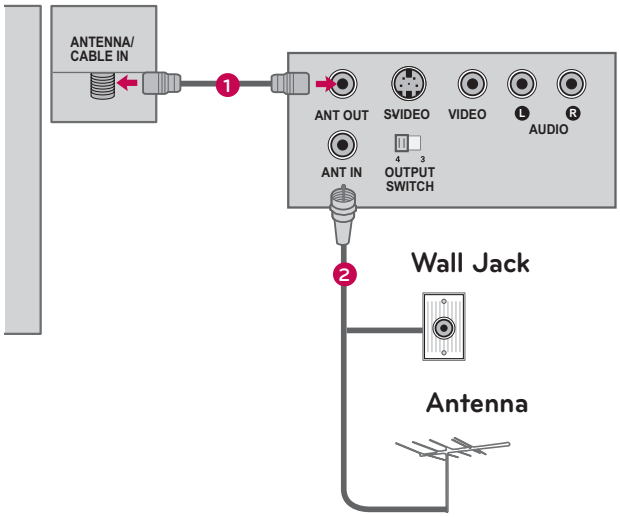
- If an HDMI cable doesn't support HDMI version 1.3, it can cause flickers or no screen display. In this case use the latest cables that support HDMI version 1.3.
- HDMI Audio Supported Format: Dolby Digital (32 KHz, 44.1 KHz, 48 KHz), Linear PCM (32 KHz, 44.1 KHz, 48 KHz)

VCR SETUP

Antenna Connection

1. How to connect

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



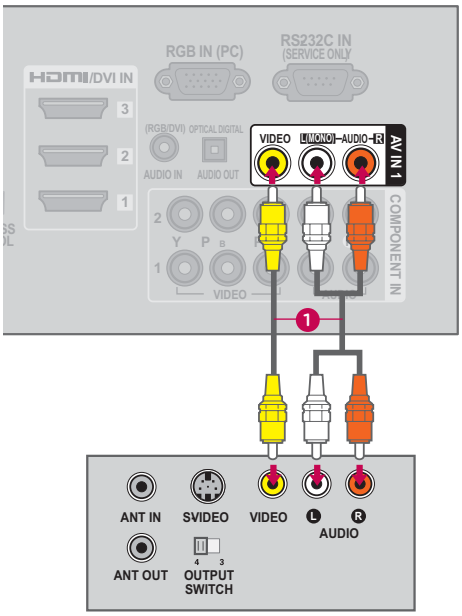
2. How to use

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

Composite (RCA) Connection

1. How to connect

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



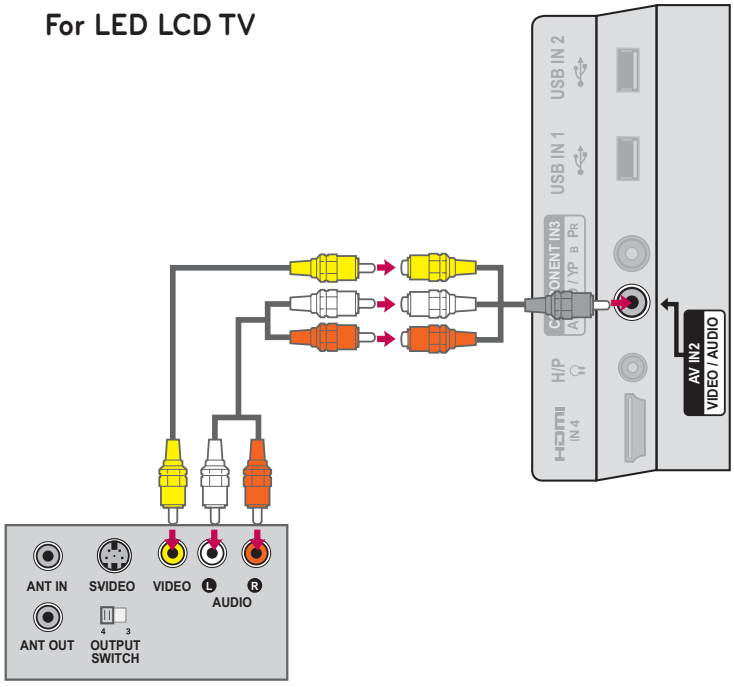
2. How to use

- Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
- Select the **AV1** or **AV2** input source on the TV using the **INPUT** button on the remote control.

NOTE

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

For LED LCD TV



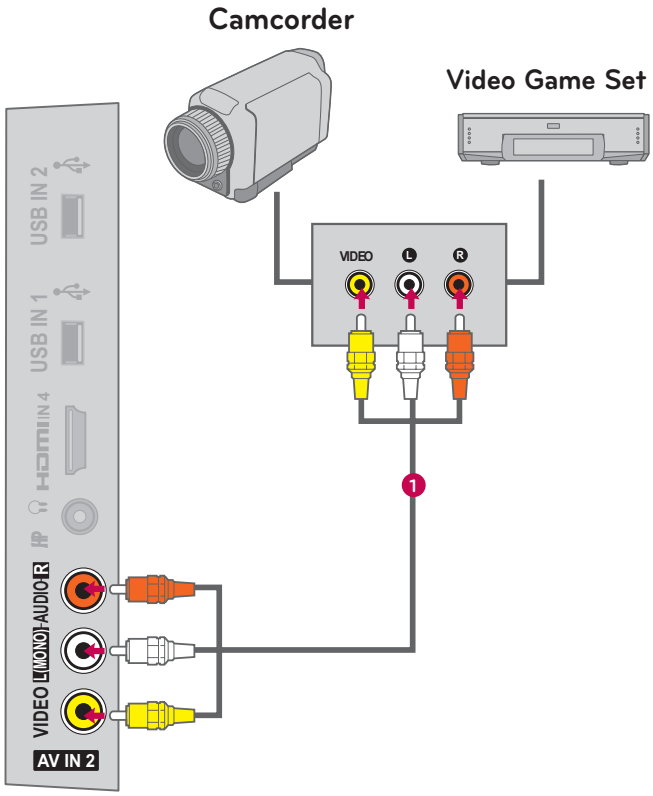
OTHER A/V SOURCE SETUP

1. How to connect

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

2. How to use

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



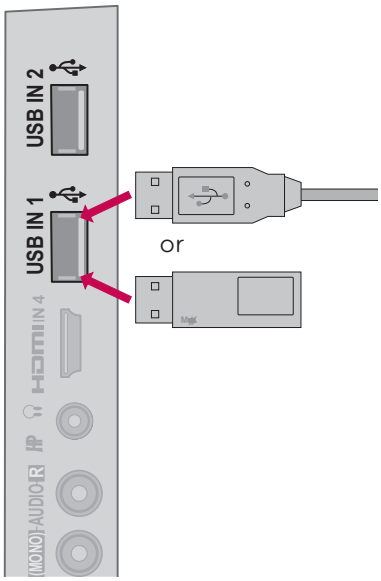
USB CONNECTION

1. How to connect

1 Connect the USB device to the **USB IN 1** or **2** jack on the side of TV.

2. How to use

- After connecting the **USB IN** jack, you use the USB function. (▶ p.93)

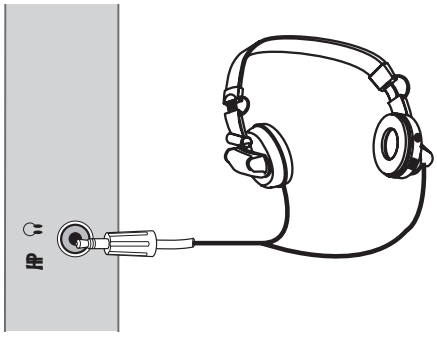


HEADPHONE SETUP (FOR LED LCD TV/LCD TV)

You can listen to the sound through the headphone.

1. How to connect

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



NOTE

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

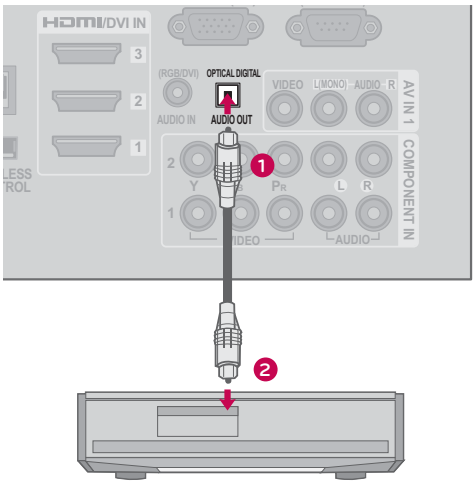
AUDIO OUT CONNECTION

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

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

1. How to connect

1. Connect one end of the optical cable to the TV port of **OPTICAL DIGITAL AUDIO OUT**.
2. Connect the other end of the optical cable to the digital audio input on the audio equipment.
3. Set the "TV Speaker option - Off" in the AUDIO menu. (▶ **p.150**). See the external audio equipment instruction manual for operation.



NOTE

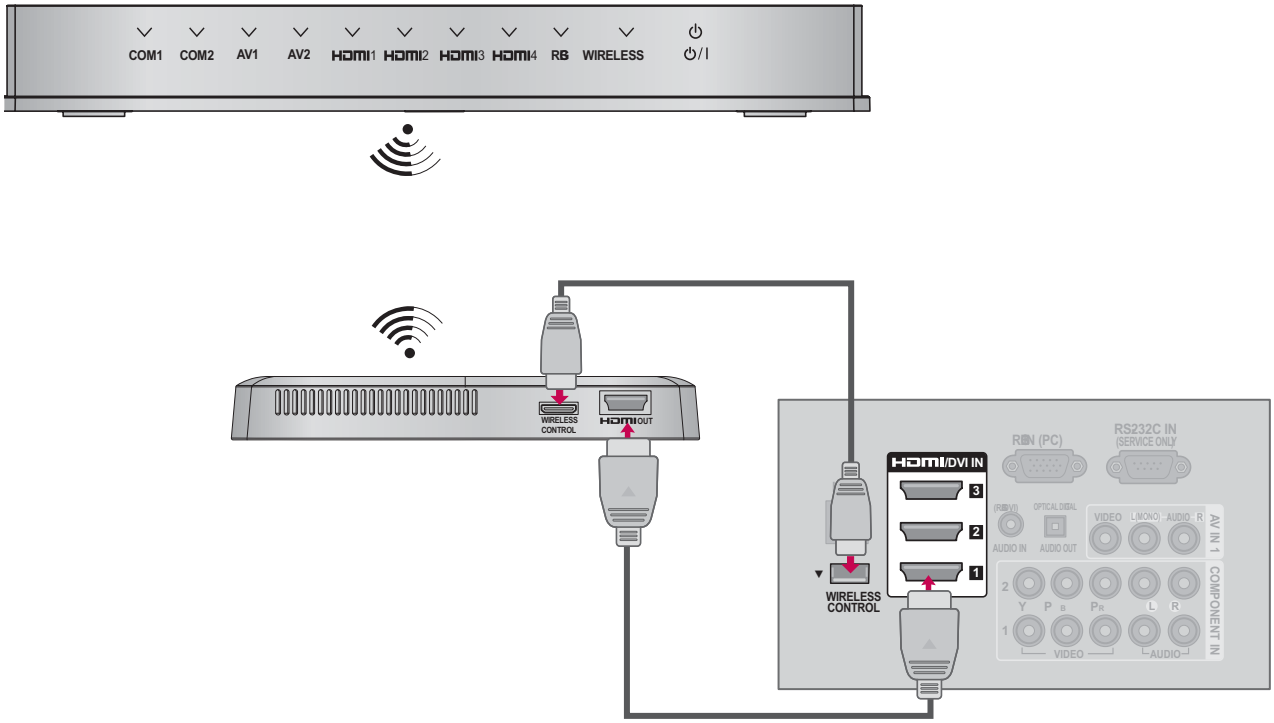
- When connecting with external audio equipment, such as amplifiers or speakers, you can turn the TV speakers off in the menu. (▶ **p.150**)

CAUTION

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

EXTERNAL EQUIPMENT WIRELESS CONNECTION (OPTIONAL EXTRAS)

LG TVs with a Wireless Control port support the LG Wireless Media Box, which is sold separately. When you connect the wireless ready dongle (included with the media box) to the TV, external devices can be connected to the LG Wireless Media Box and video and audio will be sent to the TV wirelessly.



1. How to connect

1. Connect the **WIRELESS CONTROL** jack of the Wireless Ready Dongle to the **WIRELESS CONTROL** jack on the TV.
2. Connect **HDMI OUT** jack of the Wireless Ready Dongle to the **HDMI IN** jack on the TV.

2. How to use

- Select the desired input source on the TV using the **INPUT** button on the remote control.
- Refer to the Wireless Media Box manual for operating instructions.

PC SETUP

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

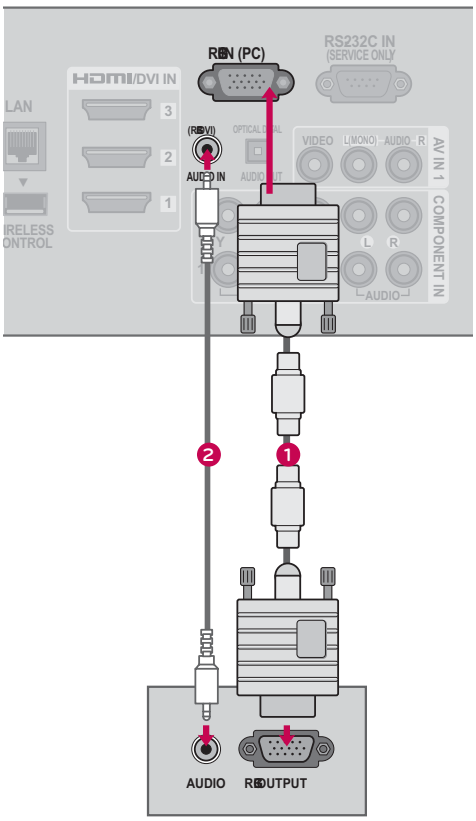
VGA (D-Sub 15 Pin) Connection

1. How to connect

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

2. How to use

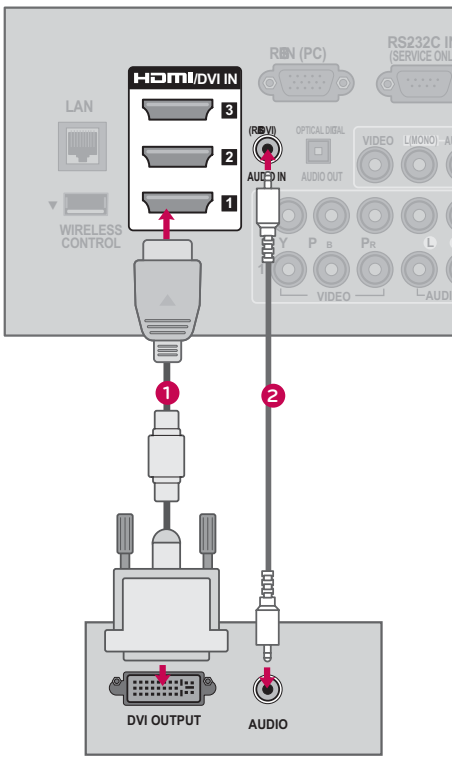
- Turn on the PC and the TV.
- Select the **RGB-PC** input source on the TV using the **INPUT** button on the remote control.



DVI to HDMI Connection

1. How to connect

1. Connect the DVI output of the PC to the **HDMI/DVI IN 1**, **2**, **3**, or **4*** jack on the TV.
2. Connect the PC audio output to the **AUDIO IN (RGB/DVI)** jack on the TV.



2. How to use

- Turn on the PC and the TV.
- Select the **HDMI1**, **HDMI2**, **HDMI3**, or **HDMI4*** input source on the TV using the **INPUT** button on the remote control.

** HDMI4: For Plasma TV*

NOTE

- 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 you experience overscan issues when using HDMI-PC 1920x1080, change aspect ratio to **Just scan**.
- When selecting HDMI-PC, set the "Input Label - PC" in the OPTION menu.

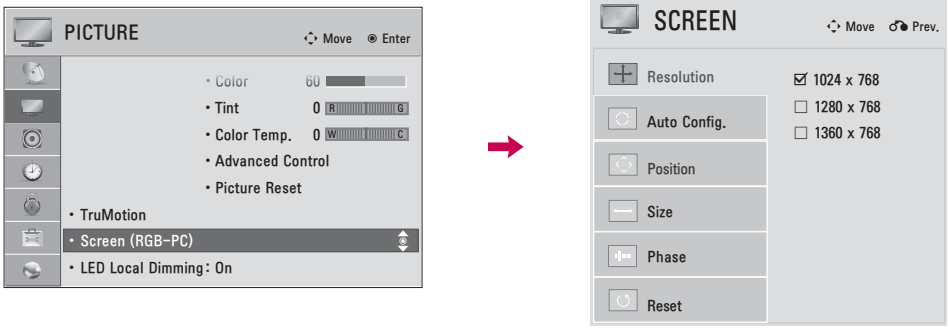
Supported Display Specifications (RGB-PC, HDMI-PC)

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (KHz)
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
1920x1080 RGB-PC	66.587	59.934
1920x1080 HDMI-PC	67.50	60.00

Screen Setup for PC mode

Selecting Resolution

You can choose the resolution in RGB-PC mode.
The Position, Phase, and Size can also be adjusted.
You can choose this option only when the PC resolution is set to 1024X768, 1280X768 or 1360X768.



1 MENU Select **PICTURE**.

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

3 ENTER Select **Resolution**.

4 ENTER Select the desired resolution.

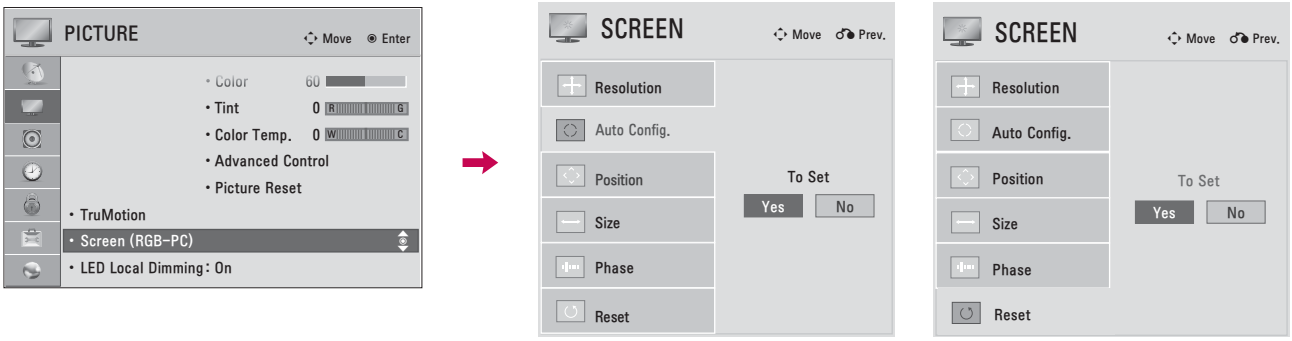
5 ENTER

Auto Configure

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

Screen Reset (Reset to original initial values)

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



1 MENU Select **PICTURE**.

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

3 ENTER Select **Auto Config.** or **Reset**.

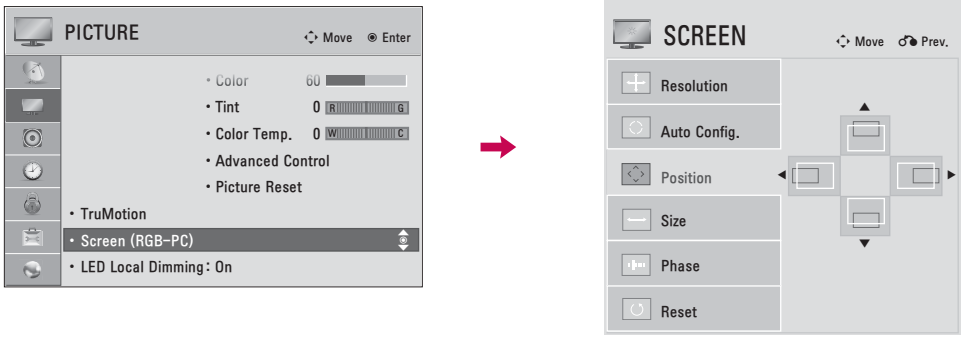
4 ENTER Select **Yes**.

5 ENTER

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

Adjustment for screen Position, Size, and Phase

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



1 MENU Select PICTURE

2 ENTER Select Screen(RGB)

3 ENTER Select Position, Size, or Phase.

4 ENTER Make appropriate adjustments.

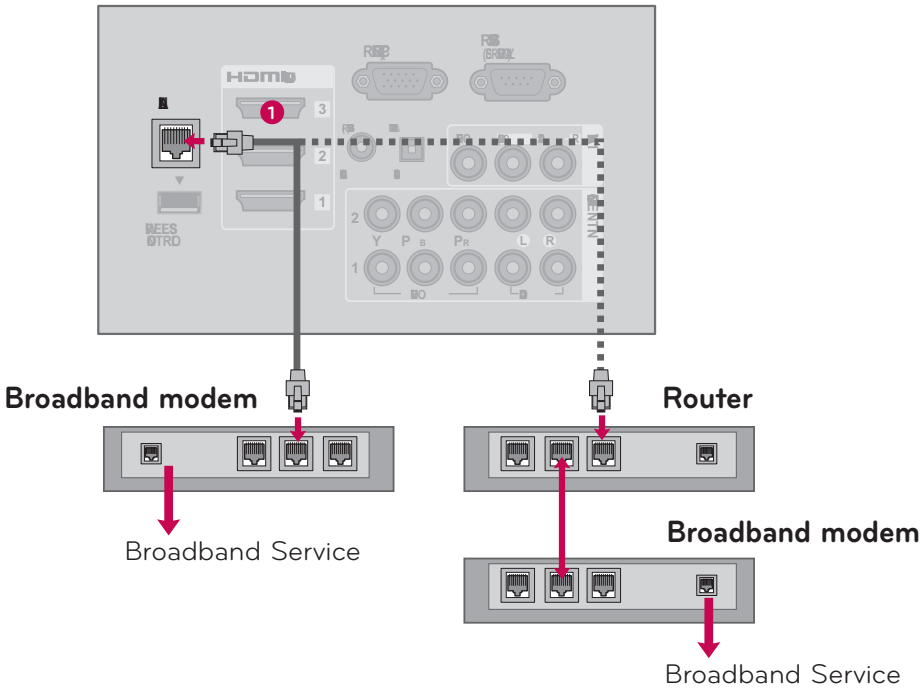
5 ENTER

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

NETWORK SETUP

Wired Network Connection

This TV can be connected to a local area network (LAN) via the LAN port. After making the physical connection, the TV needs to be set up for network communication.



1. How to connect

1 Connect the LAN port of the Modem or Router to the **LAN** port on the TV.

2. How to use

- Select "**Network Setting**" in the NETWORK menu.
- After connecting the **LAN** port, use the NETCAST menu.
- For more information about NETCAST setup and troubleshooting, visit **http://lgknowledgebase.com**. Search for NETCAST.

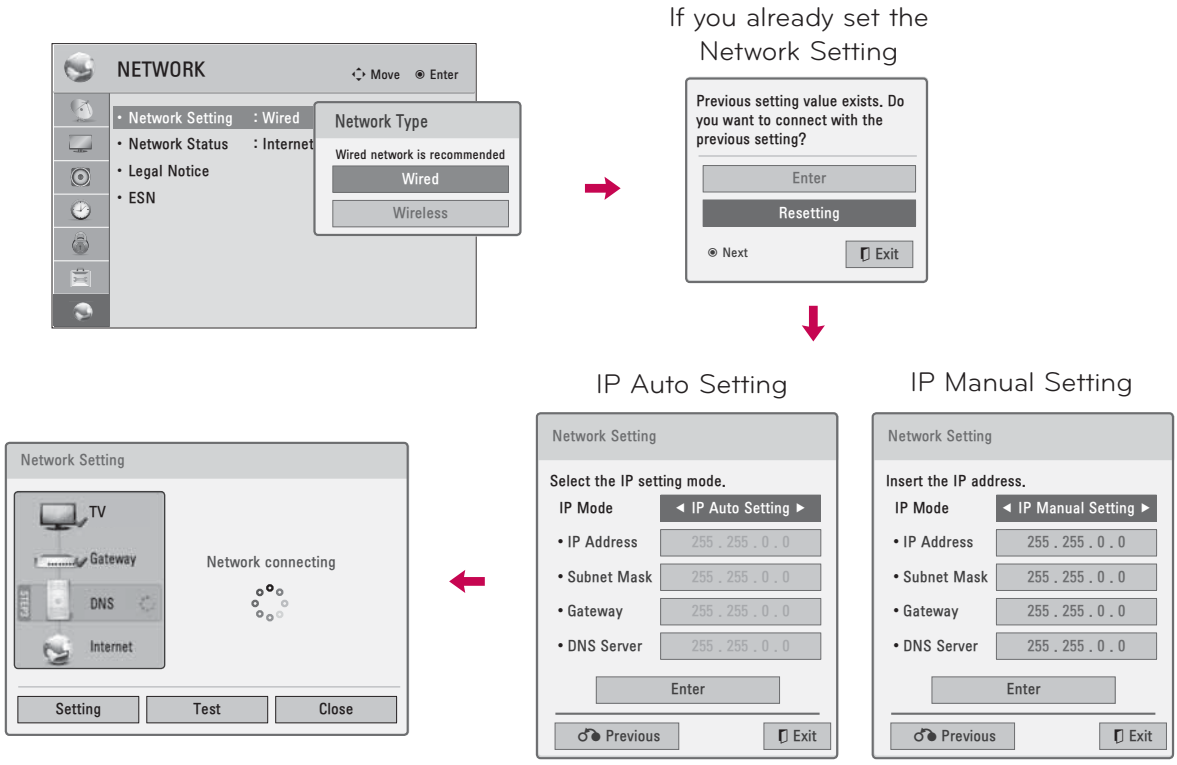
⚠ CAUTION

- Do not connect a modular phone cable to the LAN port.
- Since there are various connection methods, please follow the specifications of your telecommunication carrier or internet service provider.

EXTERNAL EQUIPMENT SETUP

Wired Network Setup

If wired and wireless networks are both available, wired is the preferred method.
After making a physical connection, a small number of home networks may require the TV network settings to be adjusted.
For detail information, contact your internet provider or router manual.



1 MENU Select **NETWORK**.

2 ENTER Select **Network Setting**.

3 ENTER Select **Wired**.

4 ENTER If you already set Network Setting: Select **Resetting**. The new connection settings resets the current network settings.

5 ENTER Select **IP Auto Setting** or **IP Manual Setting**.

When Selecting **IP Manual Setting:**
IP addresses will need to be input manually.

6 ENTER Select **Enter**.

- This feature requires an always-on broadband internet connection.
- You do not need to connect to a PC to use this function.
- If **Network Setting** is not working, check your network conditions. Check the LAN cable and make sure your router has DHCP turned on if you wish to use the Auto Setting.
- If the **Network Setting** is not completed, network may not operate normally.
- **IP Auto Setting**: Select it if there is a DHCP server on the local area network (LAN) via wired connection, the TV will automatically be allocated an IP address. If you're using a broadband router or broadband modem that has a DHCP (Dynamic Host Configuration Protocol) server function. The IP address will automatically be determined.
- **IP Manual Setting**: Select it if there is no DHCP server on the network and you want to set the IP address manually.

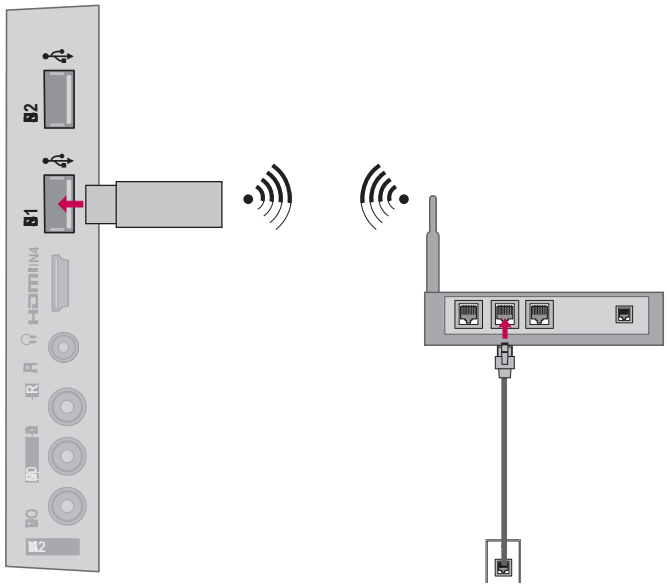
NOTE

- For more information about NETCAST setup and troubleshooting, visit **http://lgknowledgebase.com**. Search for NETCAST.
- Use a standard LAN cable with this TV. Cat5 or better with a RJ45 connector.
- Many network connection problems during set up can often be fixed by re-setting the router or modem. After connecting the player to the home network, quickly power off and/or disconnect the power cable of the home network router or cable modem. Then power on and/or connect the power cable again.
- Depending on the internet service provider (ISP), the number of devices that can receive internet service may be limited by the applicable terms of service. For details, contact your ISP.
- LG is not responsible for any malfunction of the TV and/or the internet connection feature due to communication errors/malfunctions associated with your broadband internet connection, or other connected equipment.
- LG is not responsible for problems within your internet connection.
- Some content available through the network connection may not be compatible with the TV. If you have questions about such content, please contact the producer of the content.
- You may experience undesired results if the network connection speed does not meet the requirements of the content being accessed.
- Some internet connection operations may not be possible due to certain restrictions set by the Internet service provider (ISP) supplying your broadband Internet connection.
- Any fees charged by an ISP including, without limitation, connection charges are your responsibility.
- A 10 Base-T or 100 Base-TX LAN port is required for connection to this TV. If your internet service does not allow for such a connection, you will not be able to connect the TV.
- A DSL modem is required to use DSL service and a cable modem is required to use cable modem service. Depending on the access method of and subscriber agreement with your ISP, you may not be able to use the internet connection feature contained in this TV or you may be limited to the number of devices you can connect at the same time. (If your ISP limits subscription to one device, this TV may not be allowed to connect when a PC is already connected.)
- The use of a "Router" may not be allowed or its usage may be limited depending on the policies and restrictions of your ISP. For details, contact your ISP directly.
- The wireless network operates at 2.4 GHz radio frequencies that are also used by other household devices such as cordless telephone, Bluetooth® devices, microwave oven, and can be affected by interference from them. It can be interrupted by the device using 5Ghz radio frequencies. It is same device with LG wireless media box, cordless telephone, other Wi-Fi device.
- It may decrease the service speed using Wireless network by surrounding wireless condition.
- Turn off all unused network equipment in your local home network. Some devices may generate network traffic.
- In some instances, placing the access point or wireless router higher up away from the floor may improve the reception.
- The reception quality over wireless depends on many factors such as type of the access point, distance between the TV and access point, and the location of the TV.
- When connecting internet through the wired/wireless sharing machine, it may interrupt the connection because of the use limitation and confirmation of service company.

Wireless Network

The LG Wireless LAN for Broadband/DLNA Adaptor, which is sold separately, allows the TV to connect to a wireless lan network.

The network configuration and connection method may vary depending on the equipment in use and the network environment. Refer to the setup instructions supplied with your access point or wireless router for detailed connection steps and network settings.



1. How to connect

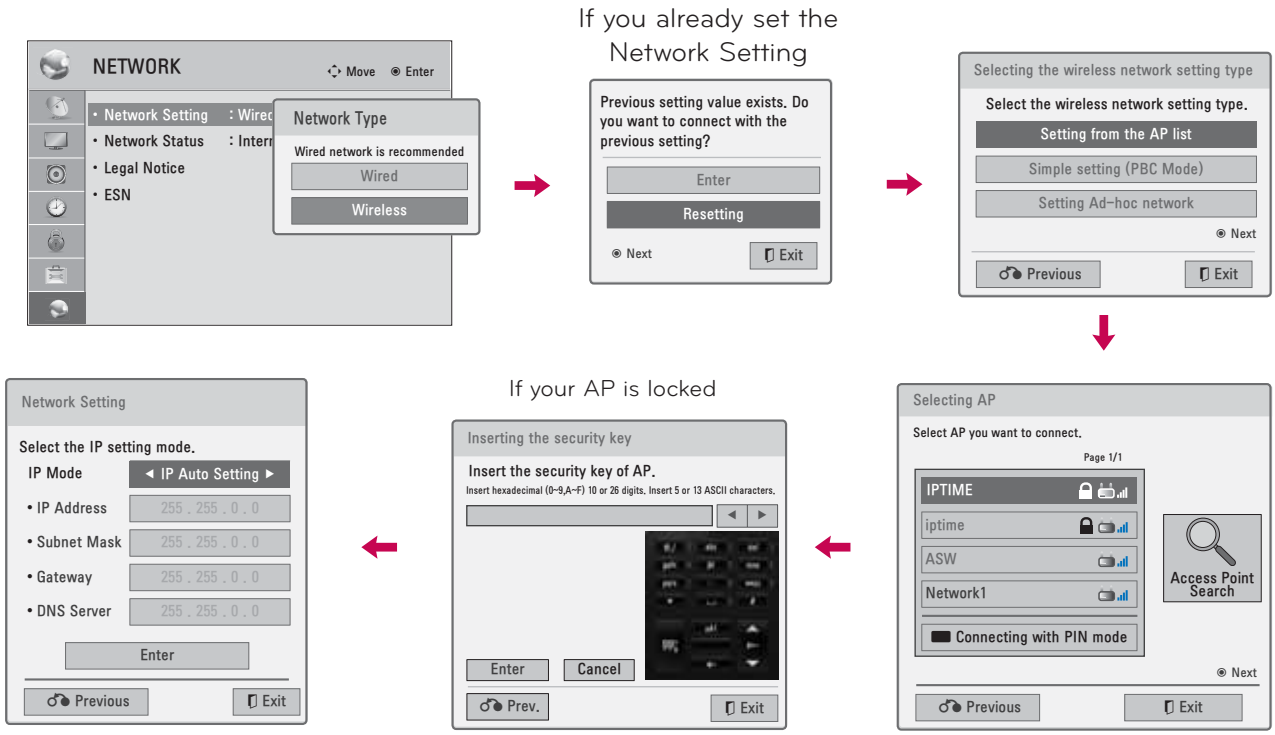
1 Connect the "LG **Wireless LAN for Broadband/DLNA Adaptor** (sold separately)" to the **USB IN 1** or **2** port on the TV.

2. How to use

- Select "**Network Setting**" in the NETWORK menu.
- After connecting, you can use the NETCAST menu.

Wireless Network Setup

Setting up the AP (Access Point) or the wireless router is required before connecting the TV to the network.



1 MENU Select **NETWORK**.

2 ENTER Select **Network Setting**.

3 ENTER Select **Wireless**.

4 ENTER If you already set Network Setting: Select **Resetting**.
The new connection settings resets the current network settings.

5 ENTER Select **Setting from the AP list**.

6 ENTER Scan the all available AP (Access Point) or wireless routers within range and display them as a list.

7 ENTER Select an AP (Access Point) or wireless router on the list.
(If your AP is locked, insert the security key of AP).

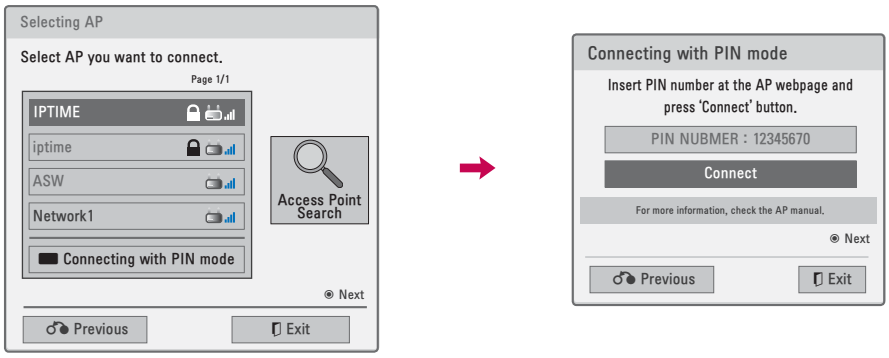
8 ENTER Input the security key of AP.

9 Repeat step 4-5 on P.56.

When a security code is already set

PIN (Personal Identification Number)

If you want to connect the AP (Access Point) or router with PIN, use this feature.



1 Repeat step 1-7 on P.59.

2 RED Connect the acccess point with **PIN** mode.

3 You can see the Network ID and Security Key on your TV screen.
Enter the PIN number to your device.

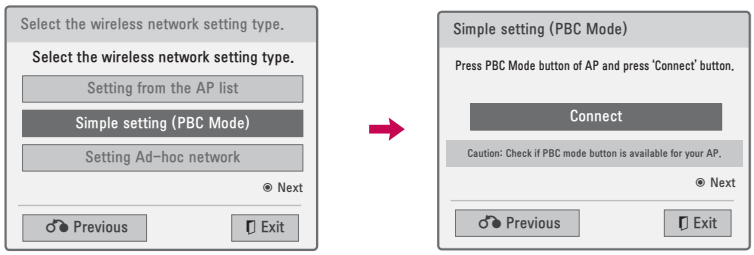
4 ENTER Select **Connect**.

5 Repeat step 4-5 on P.56.

■ PIN number is the unique 8 digit number of the dongle.

PBC (Push Button Configuration)

If your access point or wireless router that supports PIN or PBC, it's available to use your access point or wireless router within 120 counts. You do not need to know the access point name (SSID: Service Set Identifier) and security code of your access point or wireless router.



1 Repeat step 1-4 on P.59.

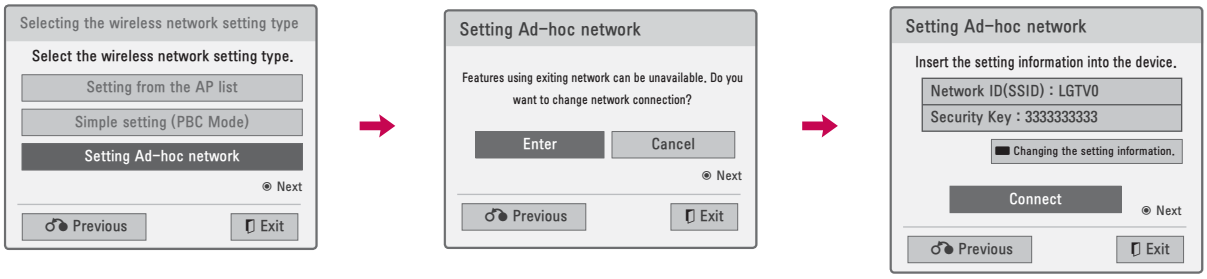
2 ENTER Select **Simple setting (PBC mode)**.

3 ENTER Select **Connect**.

4 Repeat step 4-5 on P.56.

AD-hoc Mode

This is the method of communicating directly with the machine to communicate without AP.
This is the same as connecting two PCs with a cross cable.



1 Repeat step 1-3 on P.59.

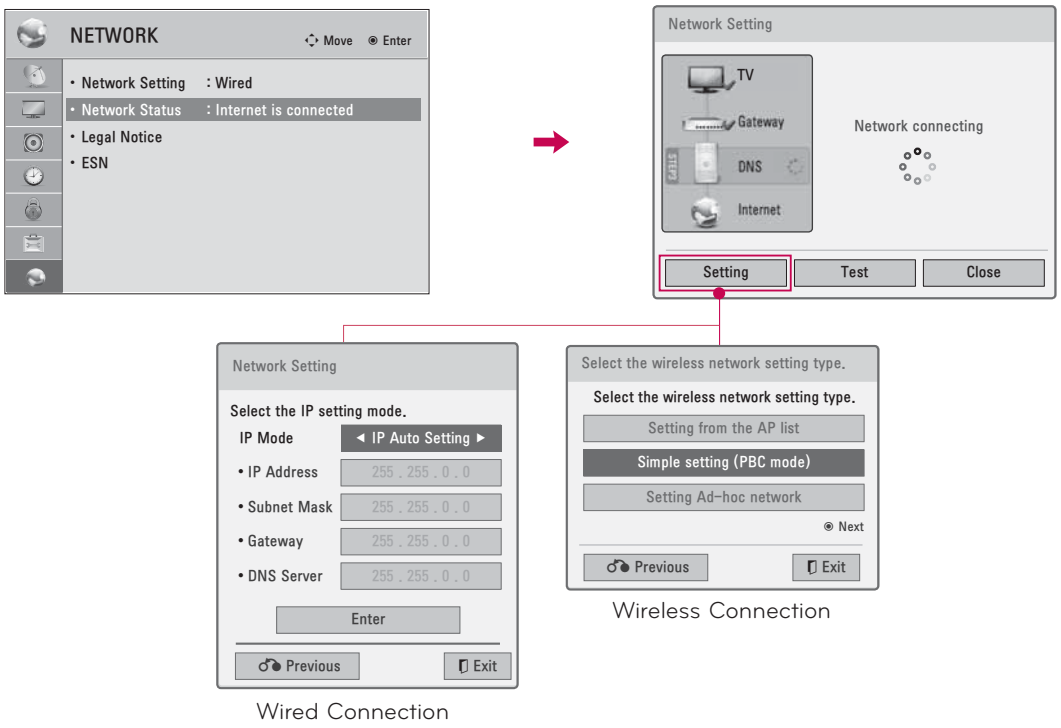
2 Select **Setting AD-hoc network**.

3 Select **Enter**.

4 Select **Connect** to connect Ad-hoc network.
You can see the Network ID and Security Key on your TV screen.
Enter this Network ID and Security Key to your device.
If a network may not operate, change the setting information using the RED button.

EXTERNAL EQUIPMENT SETUP

Network Status



Wired Connection

Wireless Connection

1 MENU Select **NETWORK**.

2 ENTER Select **Network Status**.

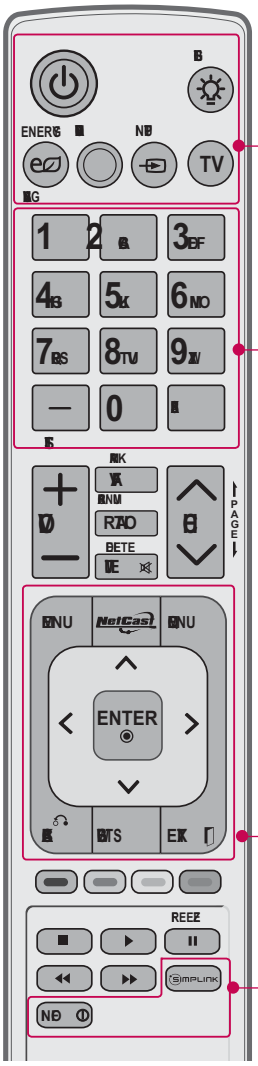
3 ENTER Check the newtwork status.

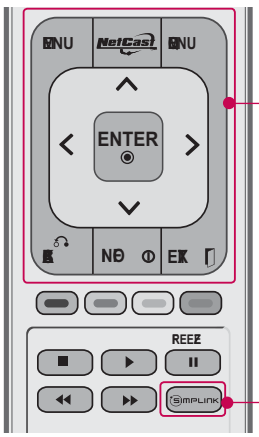
- **Setting**: Return to the network setting menu or wireless network setting type menu.
- **Test**: Test the current network status after setting the network.
- **Close**: Return to the previous menu.

WATCHING TV / CHANNEL CONTROL

REMOTE CONTROL FUNCTIONS

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





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

LIGHT Illuminates the remote control buttons.
(Except 32/42/46/52/60LD550, 47/55LD650)

ENERGY SAVING Adjusts the Energy Saving setting. ►p.132

AV MODE Toggles through preset Video and Audio modes. ►p.88

INPUT Rotates through inputs.
Also switches the TV on from standby. ►p.83

TV Returns to the last TV channel.

NUMBER button

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

LIST Displays the channel table. ►p.80

FLASHBK Tunes to the last channel viewed.

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

NETCAST Select the desired NETCAST menu source. ►p.123

Q.MENU Opens the list of Quick Menu options. ►p.71

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

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

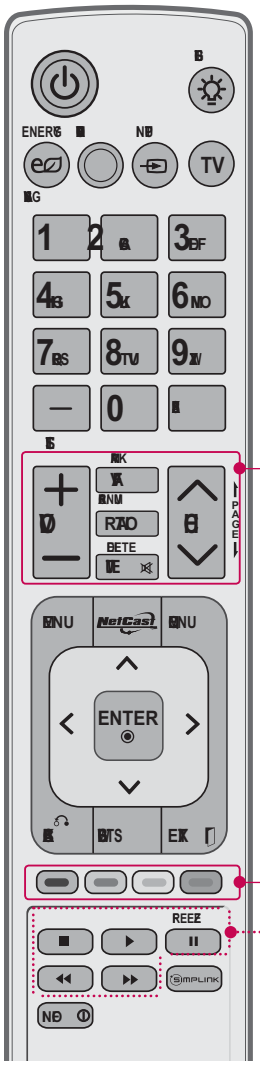
WIDGETS WIDGETS for showing or hiding the Yahoo! Dock and accessing the Yahoo! TV Widgets user experience.

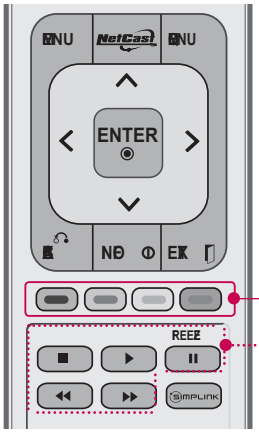
INFO Displays channel information at the bottom of the screen. ►p.81

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

SIMPLINK See a list of AV devices connected to TV.
When you toggle this button, the SIMPLINK menu appears at the screen. ►p.90

WATCHING TV / CHANNEL CONTROL





VOLUME UP/DOWN Adjusts the volume.

FAV Set up desired favorite channels list. ▶**p.79**

MARK Select the input to apply the Picture Wizard settings. ▶**p.131**

Use to mark or unmark a photo/music/movie. ▶**p.105**, **110**, **116**

RATIO Changes the aspect ratio. ▶**p.128**

CHAR/NUM Shifts the Character or Number for internet service.

MUTE Switches the sound on or off. ▶**p.66**

DELETE Deleted the character or number on the screen.

CHANNEL UP/DOWN Changes the channel.

PAGE UP/DOWN Moves from one full set of screen information to the next one.

COLOR BUTTON Access special functions in some menus.

USB, SIMPLINK Control buttons

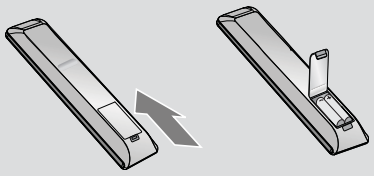
- Controls MY MEDIA menu (Movie List, Photo List, Music List)
- Controls the SIMPLINK compatible devices.

FREEZE (For Plasma TV) Pause the present picture at the screen. (It doesn't work at USB Mode and Simplink.)

The TV returns to normal viewing automatically if no signal is received or no operation is performed for 5 minutes.

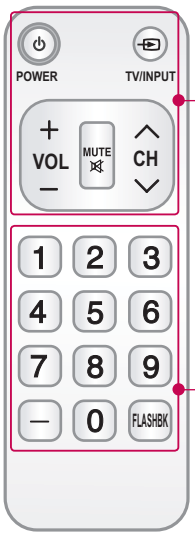
If you keep the screen in Freeze condition, the residual image can exist.

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.

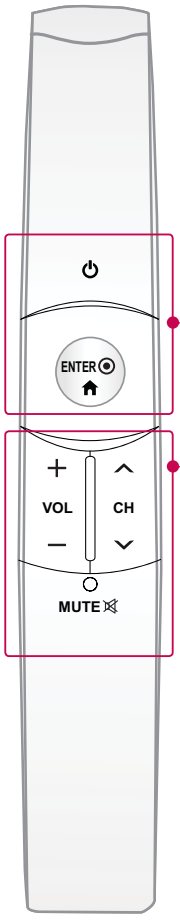
Simple Remote Control (For 42/47/55LE7500, 47/55LE8500)



POWER	Turns the TV on from standby or off to standby.
TV/INPUT	Rotates through inputs. Also switches the TV on from standby. ▶p.83
VOLUME UP/ DOWN	Adjusts the volume.
MUTE	Switches the sound on or off. ▶p.66
CHANNEL UP/DOWN	Changes the channel.

NUMBER button	
– (DASH)	Used to enter a program number for multiple program channels such as 2-1, 2-2, etc.
FLASHBK	Tunes to the last channel viewed.

Motion Remote Control (For 50/60PK950)



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

VOLUME UP/ DOWN	Adjusts the volume.
CHANNEL UP/DOWN	Changes the channel.
MUTE	Switches the sound on or off. ▶p.66

TURNING ON THE TV

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

NOTE

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

CHANNEL SELECTION

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

VOLUME ADJUSTMENT

Adjust the volume to suit your personal preference.

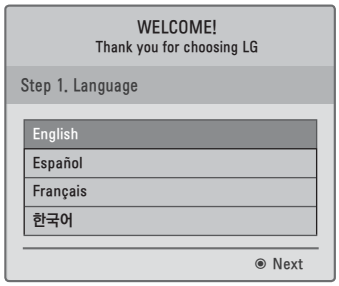
1. Press the **VOL (+ or -)** button to adjust the volume.
2. If you want to switch the sound off, press the **MUTE** button.
3. You can cancel the Mute function by pressing the **MUTE** or **VOL (+ or -)** button.

INITIAL SETTING

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

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

Step 1. Selecting Language



1 Select Menu Language.

2 ENTER

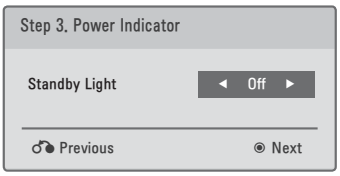
Step 2. Mode setting

For LED LCD TV

1 Select **Home Use**.

2 ENTER

Step 3. Power Indicator (For LED LCD TV)

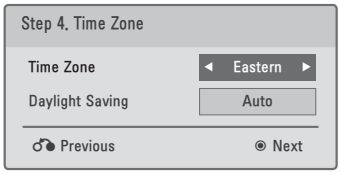


1 Select **On** or **Off**.

2 ENTER

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

Step 4. Time Zone

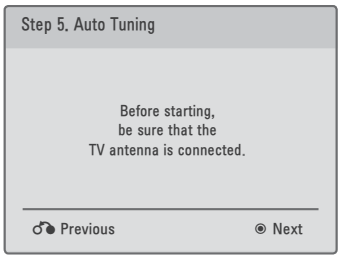


1 Select **Time Zone** option.

2 Select **Daylight Saving** option.

3 ENTER

Step 5. Auto Tuning



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

ON-SCREEN MENUS SELECTION

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

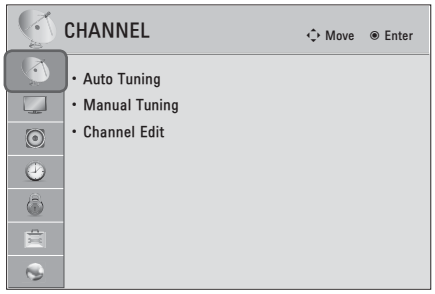
1 MENU Display each menu.

2 ENTER Select a menu item.

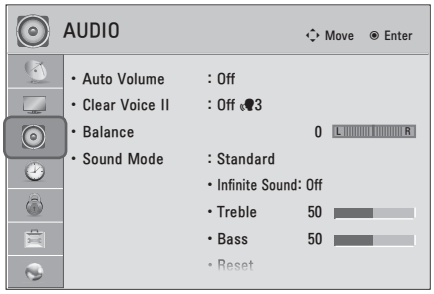
3 ENTER Accept the current selection.

4 EXIT Return to TV viewing.

CHANNEL

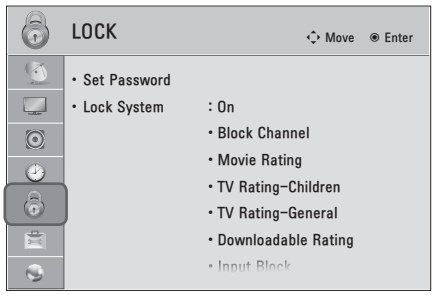


AUDIO

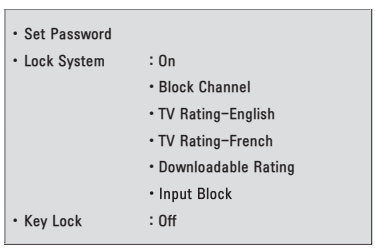


LOCK

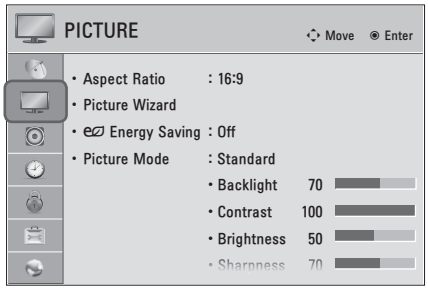
For USA



For Canada

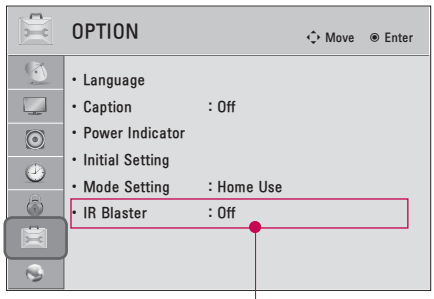


PICTURE



TIME

OPTION

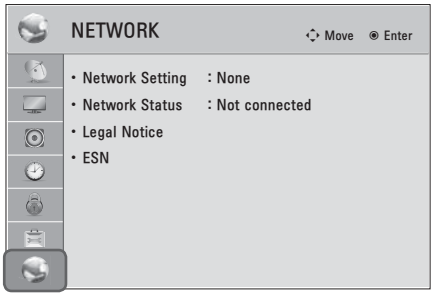


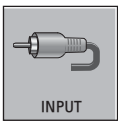
■ For further information, refer to the optional **"Wireless Media Box"** manual for operating instructions.

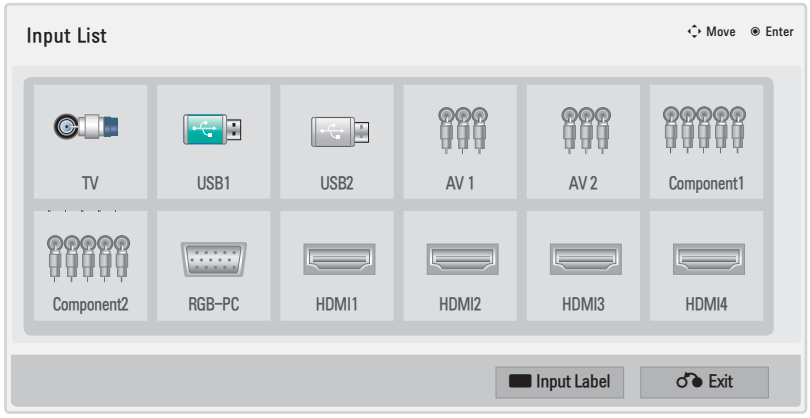
NOTE

- **ISM Method**: For **Plasma TV**.
- **Backlight, TruMotion, LED Local Dimming, Power Indicator**: For **LED LCD TV/LCD TV**.

WATCHING TV / CHANNEL CONTROL

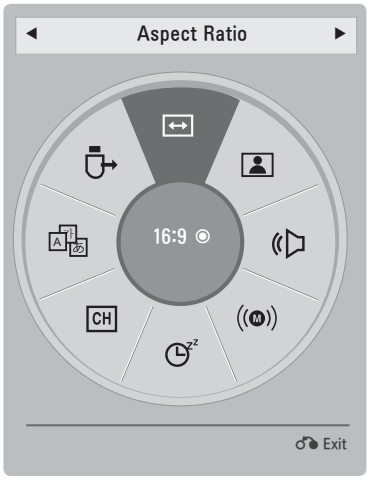






QUICK MENU

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



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

1 Q.MENU Display each menu.

2 ENTER Make appropriate adjustments.

3 EXIT Return to TV viewing.

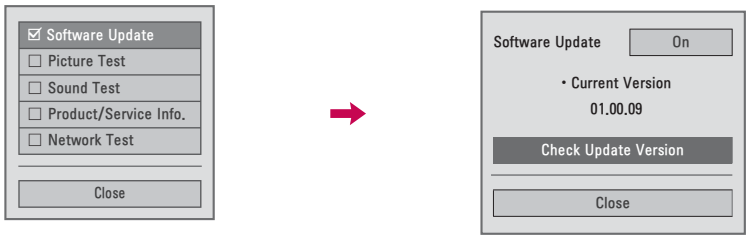
CUSTOMER SUPPORT

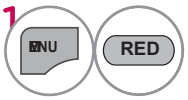
Software Update

You can update the TV with the latest software to enhance the product operation and/or add new features.

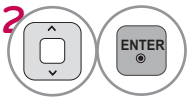
You can update the software by connecting the TV directly to the software update server.

The Software Update function may not work properly depending on your internet environment. In this case, you can obtain the latest software from the authorized LG Electronics Service Center then update your TV.

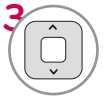




Select **Customer Support**.



Select **Software Update**.

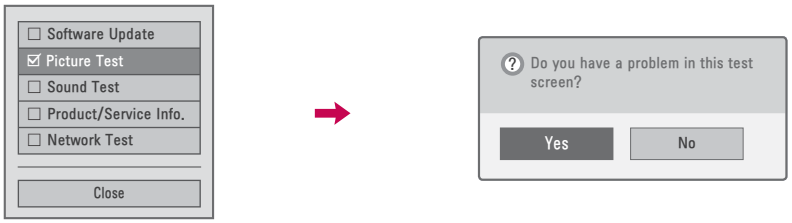


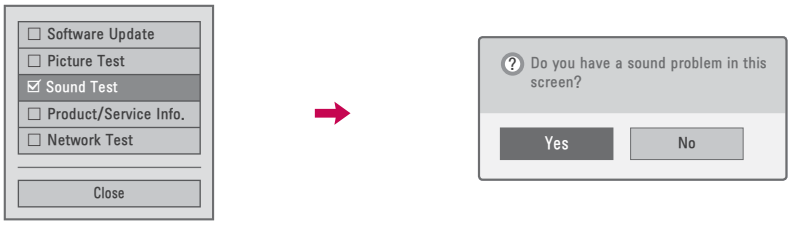
Select **Check Update Version** to check the newest version.

- The software downloading time will vary depending on the software size and network conditions.
- During the software update procedure, do not turn off the TV or disconnect AC power, or disconnect the LAN cable.
- After software update, you can confirm the update software version at software Update menu.
- When update is completed, the TV will restart automatically in 5 seconds.
- The TV functions may be improved or changed by software update.
- The available time or functionality of NetCast menu may be depends on your ISP network conditions.
- When an update is completed, some CHANNEL, PICTURE, and AUDIO menu settings may need resetting.
- This TV cannot be updated to previous software version.
- Use the "Check Update Version" button to update the latest software on the Network server manually.

Picture Test/Sound Test

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





1 MENU RED Select **Customer Support**.

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

3 ENTER Select **Yes**.

4 BACK Return to the previous menu.

Return to TV viewing.

Product/Service Info.

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

1 MENU RED Select **Customer Support**.

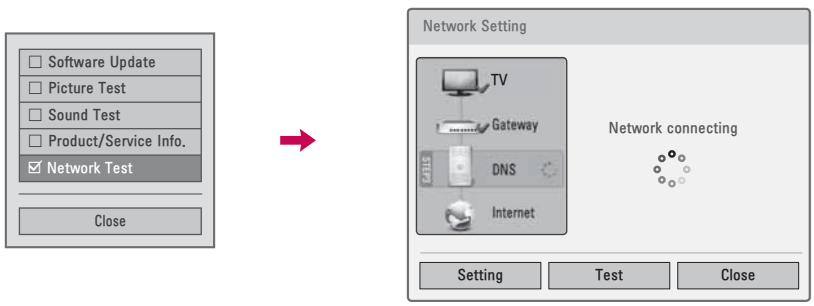
2 ENTER Select **Product/Service Info.**. You can check the various product/Service infomation based on your model.

3 BACK Return to the previous menu.

Return to TV viewing.

Network Test

Check the newtwork status.



1 MENU RED Select **Customer Support**.

2 ENTER Select **Network Test**.

3 ENTER Check the newtwork status.

SIMPLE MANUAL

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

1

Select **Simple Manual**.

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

Go to the **Index** page.

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

3

Return to TV viewing.

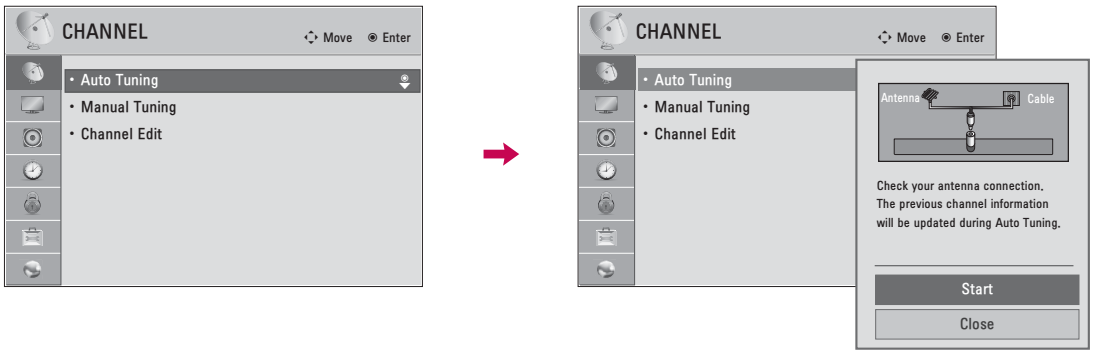
CHANNEL SETUP

Auto Scan (Auto Tuning)

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

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

Auto Tuning memorizes only the channels available at the time.



1 MENU Select **CHANNEL**.

2 ENTER Select **Auto Tuning**.

3 ENTER Select **Start**.

4 ENTER Run **Auto tuning**.

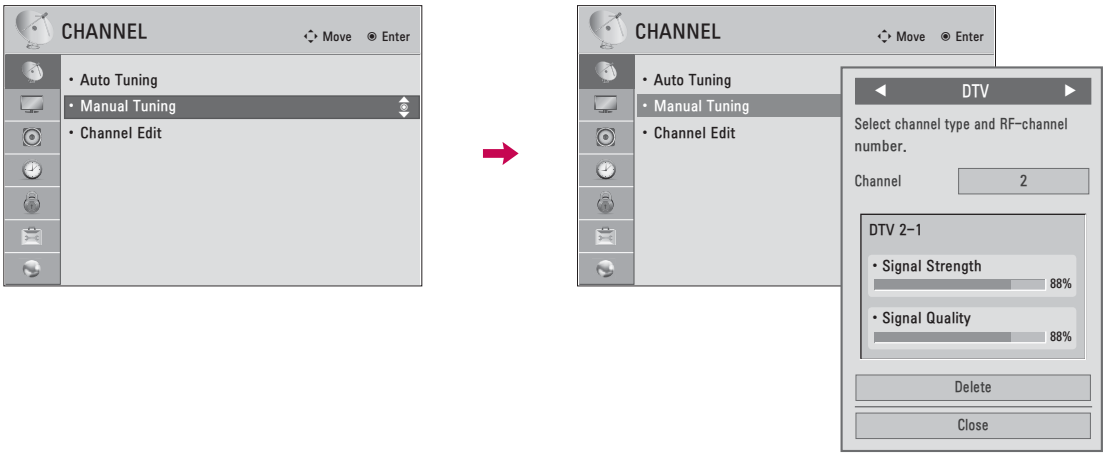
5 BACK Return to the previous menu.

Return to TV viewing.

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

Add/Delete Channel (Manual Tuning)

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



1 MENU Select **CHANNEL**.

2 ENTER Select **Manual Tuning**.

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

4 Select channel you want to add or delete.

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

6 BACK Return to the previous menu.

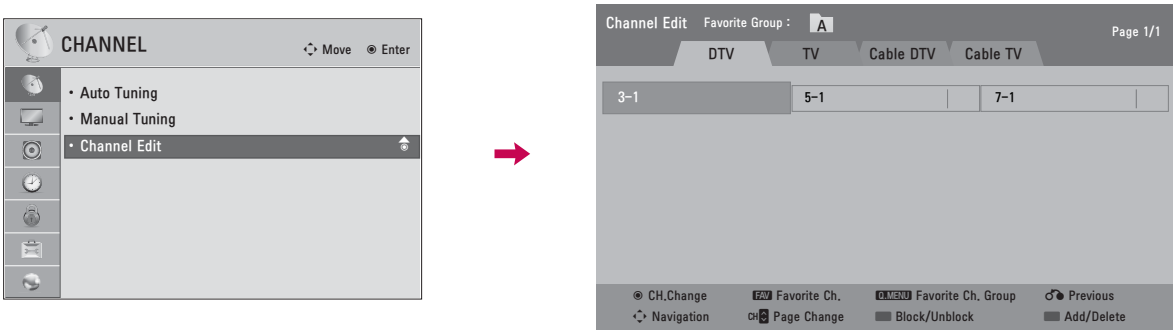
Return to TV viewing.

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

Channel Editing

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

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



1 MENU Select **CHANNEL**.

2 ENTER Select **Channel Edit**.

3 ENTER Select a channel.

4 BLUE Add or delete a channel.

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

ENTER Switch to the chosen channel number.

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

5 BACK Return to the previous menu.

EXIT Return to TV viewing.

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

FAVORITE CHANNEL SETUP

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

1 CH or Select your desired channel.

2 MARK FAV CHAR/NUM Select your desired favorite channel group from A to D.

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

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

4 EXIT Return to TV viewing.

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

FAVORITE CHANNEL LIST

Displaying the favorite channel list

1 MARK FAV CHAR/NUM Display the Favorite channel list.

Selecting a channel in the favorite channel list

1 Select a channel.

2 ENTER Switch to the chosen channel number.

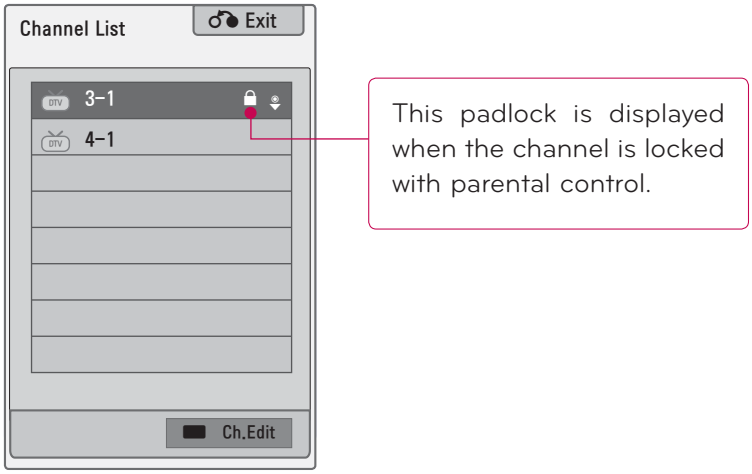
Paging through a favorite channel list

1 CH Turn the pages.

2 EXIT Return to TV viewing.

CHANNEL LIST

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



Displaying Channel List

1 LIST Display the **Channel List**.

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

Selecting a channel in the channel list

1 Select a channel.

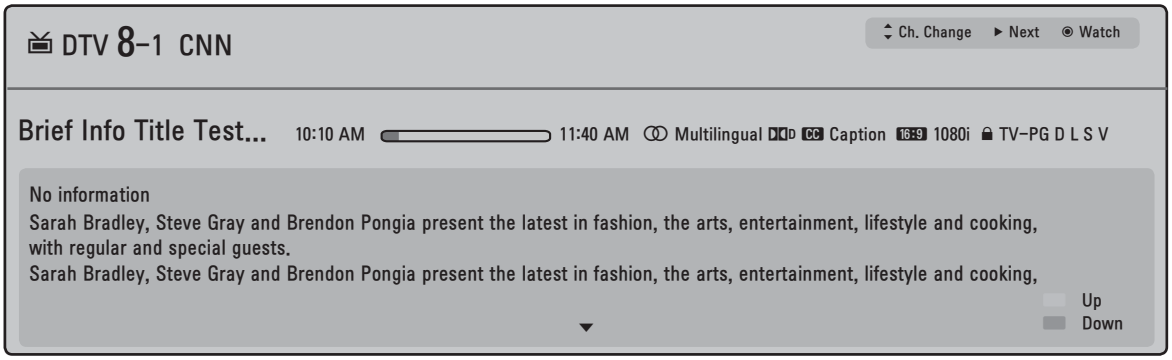
2 ENTER Switch to the chosen channel number.

Paging through a channel list

1 Turn the pages.

2 Return to TV viewing.

CHANNEL INFORMATION



Displaying Channel Information

1 Show the current channel program Information on the screen.

2 Show a previous or next channel's pro gram information

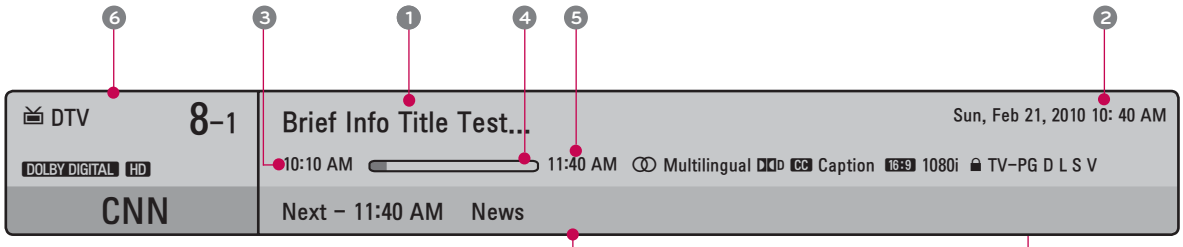
3 Return to TV viewing.

CHANNEL BRIEF INFORMATION

Brief Info shows the present screen information.

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

2 ENTER Return to TV viewing.

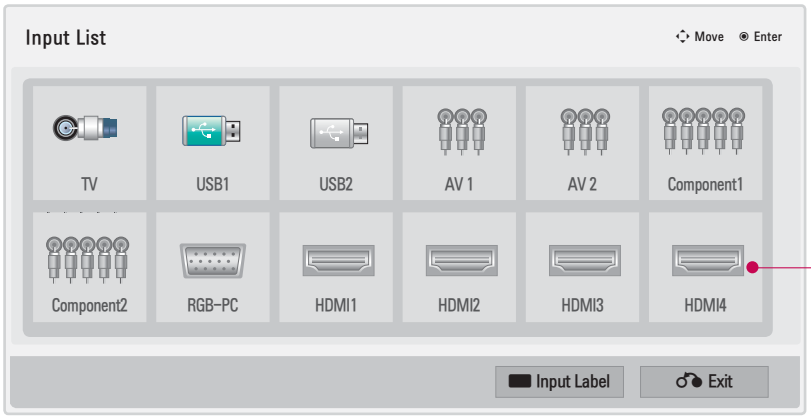


	Multilingual : The program contains two or more audio services. Use the **Q.MENU** menu to select wanted Audio.
CC	**Caption** : The program contains one or more caption services. Use the **Q.MENU** menu to select wanted Closed caption.
DD	**Dolby Digital**: The program contains a Dolby Digital audio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

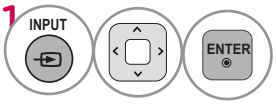
1. Program title
2. Day, Month, Year, Present time
3. Program start time
4. Program progress bar
5. Program finish time
6. Banner information

INPUT LIST

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



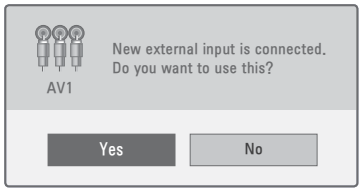
Disconnected inputs are inactive (grayed out)



Select the desired input source.

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

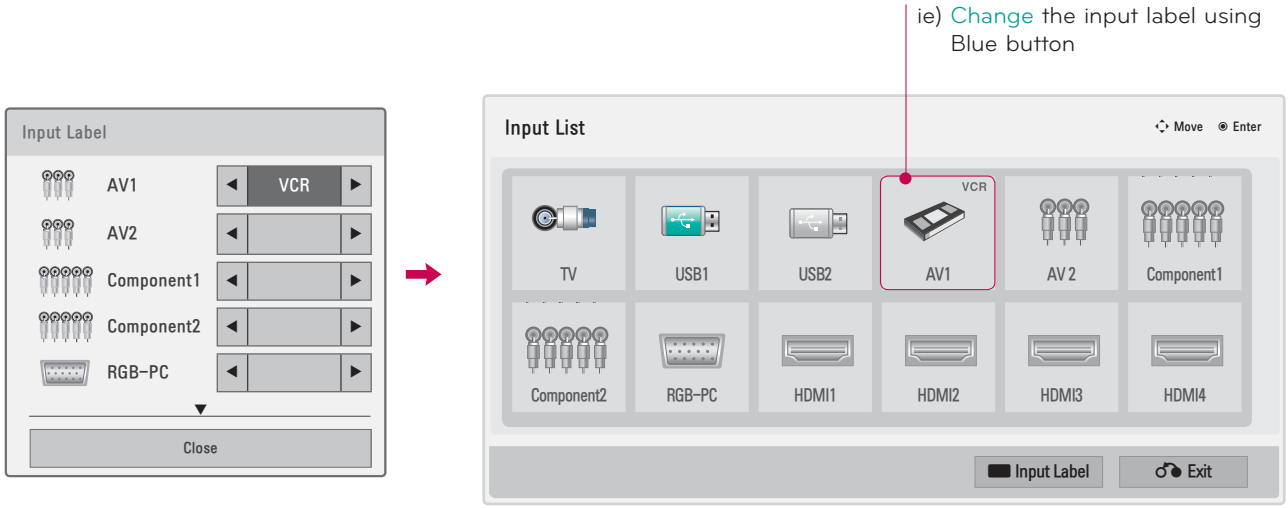
- When new external device is connected, this popup menu is displayed automatically.
  If selecting **Yes**, you can select input source that you want to appreciate.
- But, when selecting "**SIMPLINK** - **On**", popup menu for HDMI input will not be displayed.



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

INPUT LABEL

This indicates which device is connected to which input port.



1 INPUT — Select the desired input source.

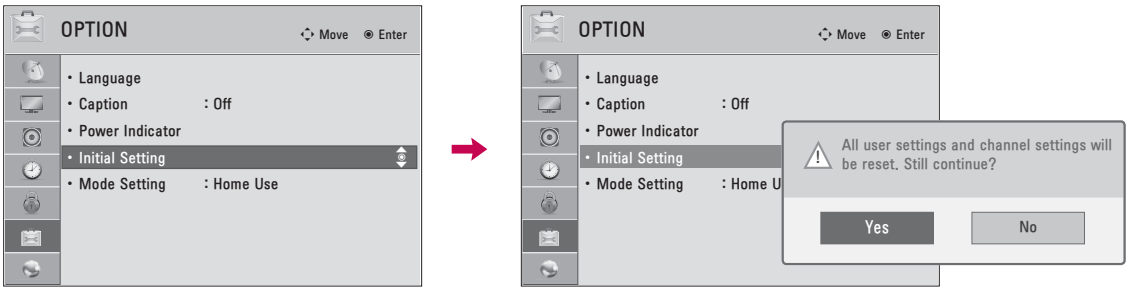
2 BLUE — Select the label.

3 — Return to the previous menu.

Return to TV viewing.

RESET TO FACTORY DEFAULT (INITIAL SETTING)

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



1 MENU Select **OPTION**.

2 ENTER Select **Initial Setting**.

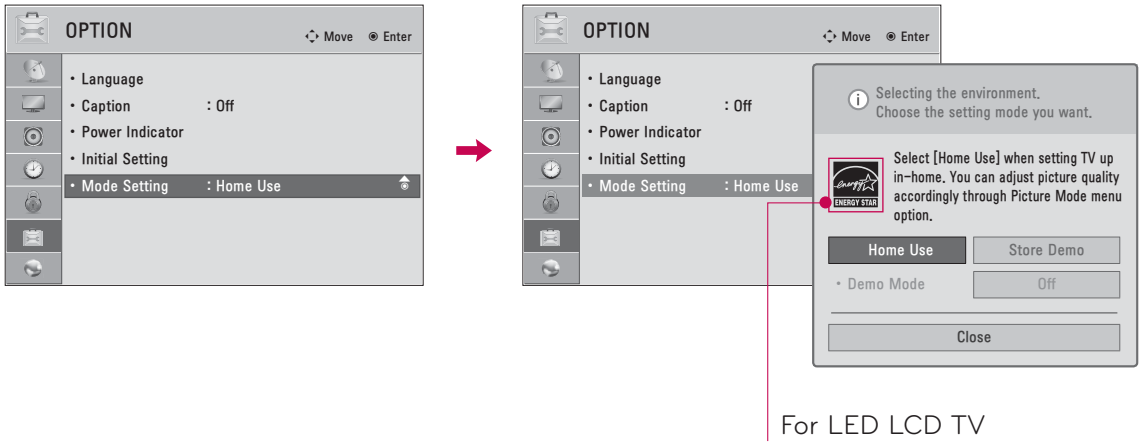
3 ENTER Select **Yes**.

4 ENTER TV turns off automatically and starts factory reset.

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

MODE SETTING

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



For LED LCD TV

1 MENU Select **OPTION**.

2 ENTER Select **Mode Setting**.

3 ENTER Select **Home Use**.

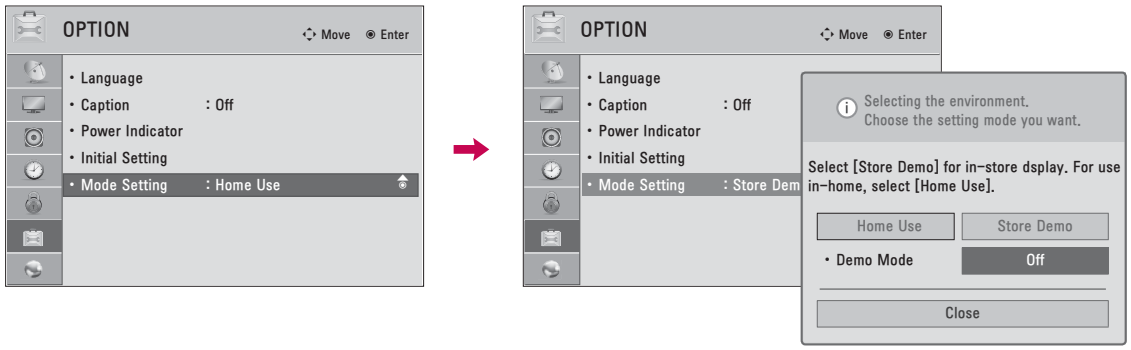
4 BACK Return to the previous menu.

Return to TV viewing.

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

DEMO MODE

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



1 MENU Select **OPTION**.

2 ENTER Select **Mode Setting**.

3 ENTER Select **Store Demo**.

4 ENTER Select **On**.

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

AV MODE

AV Mode toggles through preset Video and Audio settings.

1

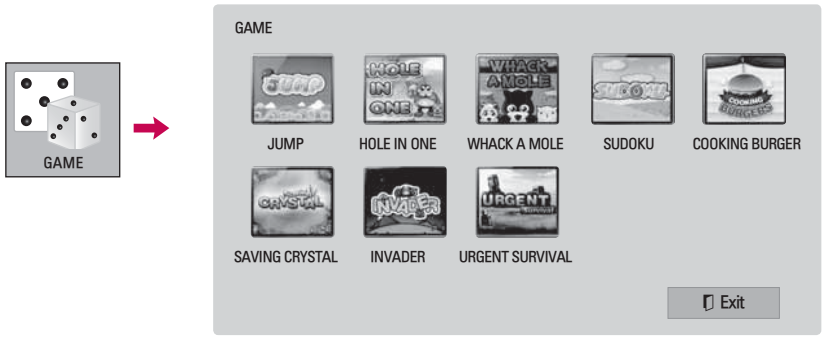
Press the AV MODE button repeatedly to select the desired source.

2

- If you select "**Cinema / THX Cinema**" in AV mode, **Cinema / THX 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.

GAME

Allows you to enjoy the games installed on the TV.



1 MENU Select **GAME**.

2 ENTER Select the desired game.

3 ENTER Enter the selected game mode.

4 EXIT Return to TV viewing.

SIMPLINK

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

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

1 Display **SIMPLINK** menu.

2 Select **On**.

3 Select the desired device.

4 Control connected AV devices.

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

▶When no device is connected (displayed in gray)

▶Selected Device

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

SIMPLINK Functions

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

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

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

NOTE

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

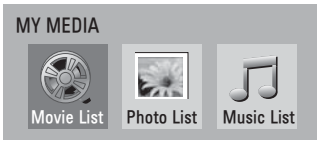
MY MEDIA

ENTRY MODE

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

After choosing the desired type of media, choose a device to open files from. The options are: USB device, CIFS (Windows Sharing), or DLNA.

**CIFS: This feature is not available for all models.*



1 MENU Select **MY MEDIA**.

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

3 ENTER Select the desired device.

BLUE Search other network device.k

4 Return to the previous menu.

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

When removing the USB device

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

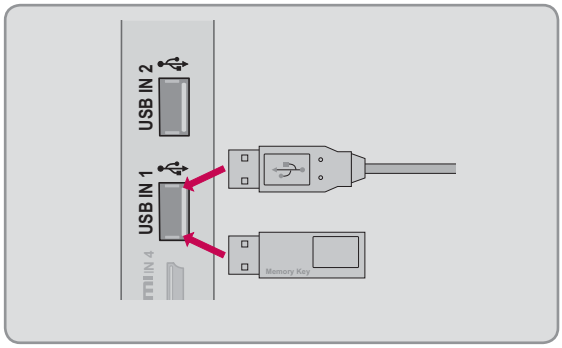
1 Q.MENU Select **USB Device**.

2 ENTER Select **Eject**.

CONNECTION METHOD

USB Connection

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



Precautions when using the USB device

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

CIFS (Common Internet File System)

This feature is not available for all models.

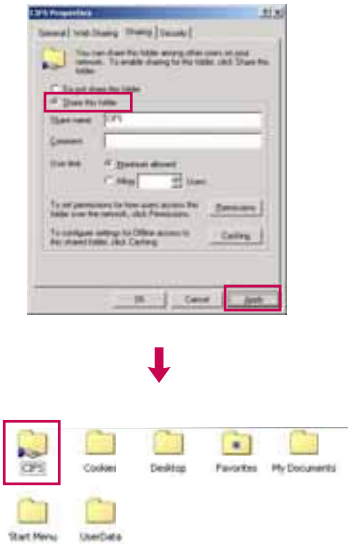
Share folder (CIFS: Common Internet File System) Setup

■ The method of setting the shared folder may be different by the OS environment.

Case 1 (Windows XP)

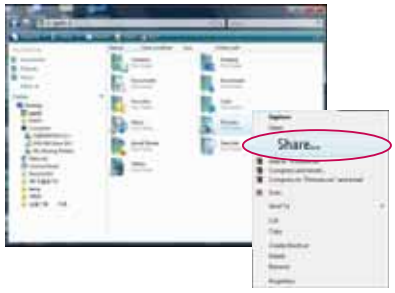
1 Select the folder you wish to share and then click **Sharing**.

2 Check **Share this folder** and click **Apply**.

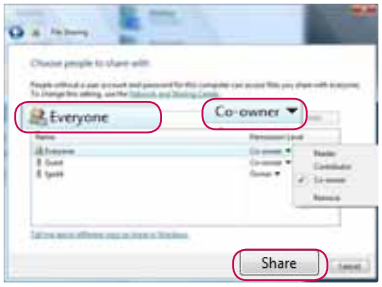


Case 2 (For Windows Vista)

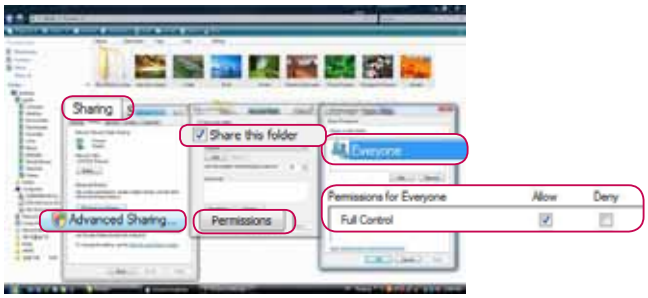
1 Choose the folder that you want to share. Then, right-click and click **Share**.



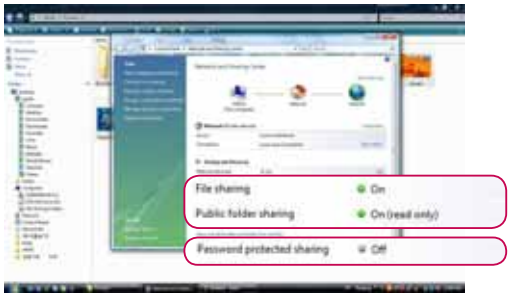
Add the **Everyone** and click **Share**.



2 Choose the folder that you want to share.
Right-click and click **Properties**.
Click **Advanced Sharing** on **Sharing** tab.
Check **Share this folder** and click **Permission**.
Add **Everyone** and check **Full Control - Allow**.



3 Check **File sharing-On, Public folder sharing-On,** and **Password protected sharing-Off**.

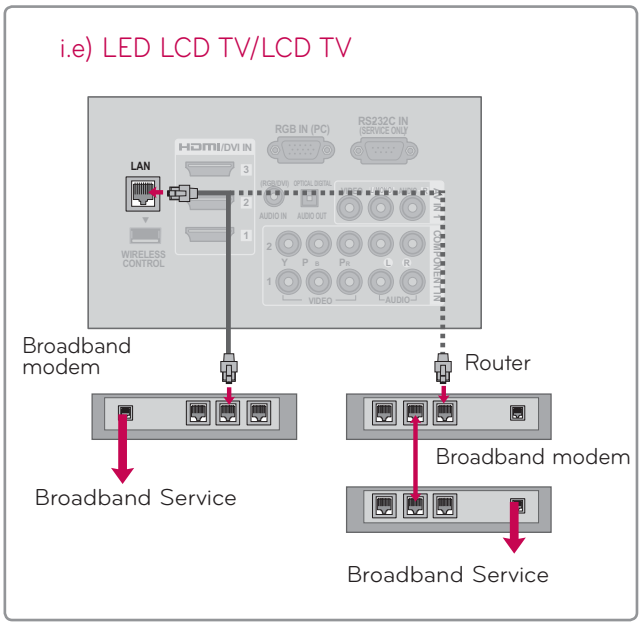


Viewing Files on the Network

You can view the photos, movies or listen to music files from folders shared on the network.

1 Set a share folder (CIFS: Common Internet File System) on the PC (Refer to P.94-95).

2 Connect the LAN port of the Modem or Router to the **LAN** port on the TV.



3 Repeat step 1-4 on P.92.

- Connect the PC and TV using a sharing device so that you can see the PC's shared files on the TV.
- How to set a share folder may differ depending on the Windows version.
- The speed may be slow or it may cause an error if you try to access a folder from two TVs at the same time.
- Because files could be deleted from a shared PC, set the user access level to Read Only.
- Do not share any important personal documents as it may be accessed by a different PC.
- If you rename or disable a shared folder on the PC after mounting, you cannot mount it again.
- If the status of the network or a share folder on the PC is changed, search is run again when entering the highest folder in the menu.
- Maximum of 32 computers can be shared.

DLNA

About DLNA

This TV is a DLNA Certified digital media product that can display and play movie, photo and music content from your DLNA Certified network device and DLNA server. The Digital Living Network Alliance (DLNA) is a cross-industry organization of consumer electronics, computing industry and mobile device companies. Digital Living provides consumers with easy sharing of digital media through a wired or wireless network in the home.

The DLNA certification logo makes it easy to find products that comply with the DLNA Interoperability Guidelines. This unit complies with DLNA Interoperability Guidelines v1.5. When a PC running DLNA server software or other DLNA compatible device is connected to this TV, some setting changes of software or other devices may be required. Please refer to the operating instructions for the software or device for more information.

NOTE

- The supplied Nero MediaHome 4 Essentials CD-ROM is a customized software edition only for sharing files and folders to this TV.
- The supplied Nero MediaHome 4 Essentials software does not support following functions: Transcoding, Remote UI, TV control, Internet services and Apple iTunes
- This manual explains operations with the English version of Nero MediaHome 4 Essentials as examples. Follow the explanation referring to the actual operations of your language version.

Installing Nero MediaHome 4 Essentials

Nero MediaHome 4 Essentials is easy to use DLNA server software for Windows. If you are already using DLNA server software on your PC, Nero MediaHome is not required. Nero MediaHome is not required for Windows 7 since it has a built-in DLNA server.

Requirement PC system before you install Nero MediaHome 4 Essentials

- Windows® XP (Service Pack 2 or higher), Windows Vista® (no Service Pack required), Windows® XP Media Center Edition 2005 (Service Pack 2 or higher), Windows Server® 2003
- Windows Vista® 64-bit edition (application runs in 32-bit mode)
- Hard drive space: 200 MB hard drive space for a typical installation of Nero MediaHome stand-alone
- 1.2 GHz Intel® Pentium® III or AMD Sempron™ 2200+ processors
- Memory: 256 MB RAM
- Graphics card with at least 32 MB video memory, minimum resolution of 800 x 600 pixels, and 16-bit color settings
- Windows® Internet Explorer® 6.0 or higher
- DirectX® 9.0c revision 30 (August 2006) or higher
- Network environment: 100 Mb Ethernet, WLAN (IEEE 802.11b/g/n)

1 Start up your computer, and insert the Nero MediaHome 4 Essentials CD-ROM into your computer's CD-ROM drive.
An installation wizard will walk you through the quick and uncomplicated installation process.

2 Close all Microsoft Windows programs and exit any anti-virus software that may be running.

3 Insert the Nero MediaHome 4 Essentials CD-ROM into your computer's CD-ROM drive.

4 Click **Nero MediaHome 4 Essentials**. The installation is prepared and the installation wizard appears.

5 Click the **Next** button to display the serial number input screen.
Click **Next** to go to the next step.

6 If you accept all conditions, click **I accept the License Conditions** check box and click **Next**. Installation is not possible without this agreement.

7 Click **Typical** and click **Next**. The installation process is started.

8 If you want to take part in the anonymous collection of data, select the check box and click the **Next** button.

9 Click the **Exit** button to complete the installation.

Sharing files and folders

After installing Nero MediaHome, you must add folders you wish to share.

1. Double-click the **Nero MediaHome 4 Essentials** icon on the desktop.
2. Click **Network** icon on the left and define your network name in the **Network name** field. The Network name you enter will be recognized by your TV.
3. Click **Shares** icon on the left.
4. Click **Local Folders** tab on the **Shared** screen.
5. Click **Add** icon to open the **Browse Folder** window.
6. Select the folder containing the files you want to share. The selected folder is added to the list of shared folders.
7. Click **Start Server** icon to start the server.

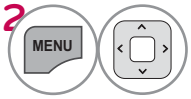
NOTE

- If the shared folders or files are not displayed on the TV, click the folder on the **Local Folders** tab and click **Rescan Folder** at the **More** button.
- Visit **www.nero.com** for more information and software tools.

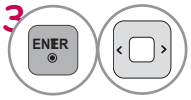
Playing back shared contents

You can display and play movie, photo and music content stored on your computer or other DLNA media servers.

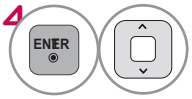
1 Start the server on your computer or other device that connected on your home network.



Select **MY MEDIA**.



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



Select the DLNA.
Depending on the media server, this TV may need to get the permission from the server.
If you want to re-scan available media server, press blue color button.

NOTE

- To play the file on the media server, the TV and the media server must be connected to the same access point.
- Because the compatibility and available playback functions on the **MY MEDIA** menu are tested on the bundle DLNA server (Nero MediaHome 4 Essentials) environment, file requirements and playback functions on the **MY MEDIA** may differ depending on media servers.
- The file requirements on this page are not always compatible. There may have some restrictions by file features and media server's ability.
- Movie thumbnail is not supported in DLNA Movie.
- If there is an unplayable music file in the **MY MEDIA** menu, the TV will skip the file and play next file.
- The file information indicated on the screen may not always correct for music and movie files in **MY MEDIA** menu
- This TV only supports movie subtitle files supplied by Nero MediaHome 4.
- The subtitle file name and movie file name have to be the same and located at the same folder.
- If subtitle files have been added after a directory has been indexed already, the user has to remove and re-add the folder to the list of shares.
- The playback and operating quality of the **MY MEDIA** function may be affected by your home network condition.
- The files from removable media such as USB drive, DVD-drive etc. on your media server may not share properly.
- When playing the Media through DLNA connection, it does not support the DivX file play which is protected by DRM.