



**APPENDIX G**  
**: USER'S MANUAL**



**LG**  
Life's Good

## LED LCD TV OWNER'S MANUAL

### LED LCD TV MODELS

42LE5400 42LE5500 42LE7500 47LE8500  
47LE5400 47LE5500 47LE7500 55LE8500  
55LE5400 55LE5500 55LE7500  
60LE5500

## LCD TV | PLASMA TV OWNER'S MANUAL

### LCD TV MODELS      PLASMA TV MODELS

32LD550    47LD650    50PK750  
42LD550    55LD650    60PK750  
46LD550  
52LD550  
60LD550

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

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

Record it below should you ever need service.

Model:

Serial:

<b>1-800-243-0000</b>	USA, Consumer User
<b>1-888-865-3026</b>	USA, Commercial User
<b>1-888-542-2623</b>	CANADA
LG Customer Information Center	



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

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

*Plasma TV is not qualified for ENERGY STAR.*

Yahoo Support	<a href="http://connectedtv.yahoo.com/help">http://connectedtv.yahoo.com/help</a>
Netflix Support	<a href="http://www.netflix.com/tvhelp">http://www.netflix.com/tvhelp</a>
YouTube Support	<a href="http://www.youtube.com/t/contact_us">http://www.youtube.com/t/contact_us</a>
Vudu Support	<a href="http://www.vudu.com/support">http://www.vudu.com/support</a>

P/NO : SAC34134201 (0911-REV00)

# WARNING / CAUTION



**WARNING / CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN



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



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



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

## WARNING/CAUTION

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

## NOTE TO CABLE/TV INSTALLER

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

# WARNING / CAUTION

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

## FCC Notice

### Class B digital device

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

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

This device complies with part 15 of the FCC Rules.

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

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

## CAUTION

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

# SAFETY INSTRUCTIONS

## IMPORTANT SAFETY INSTRUCTIONS

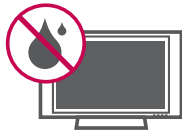
Read these instructions.

Keep these instructions.

Heed all warnings.

Follow all instructions.

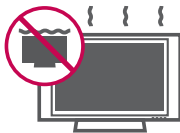
- 1** Do not use this apparatus near water.



- 2** Clean only with dry cloth.



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



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



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



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



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

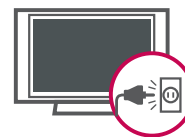


- 8** Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

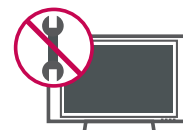


S3125A

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



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



# SAFETY INSTRUCTIONS

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

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

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

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

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

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

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



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



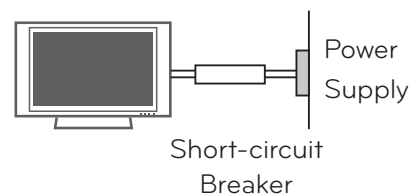
**16** Do not expose to dripping or splashing and do not place objects filled with liquids, such as vases, cups, etc. on or over the apparatus (e.g. on shelves above the unit).



## **17** GROUNDING

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

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



## **18** DISCONNECTING DEVICE FROM MAINS

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

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

## 20 ANTENNAS

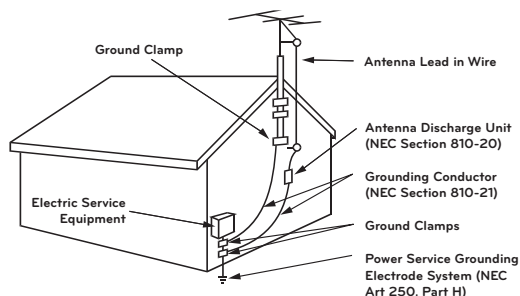
### Outdoor antenna grounding

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

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

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

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



NEC: National Electrical Code

## 21 Cleaning

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

## 22 Moving

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

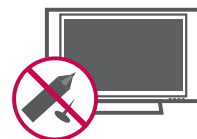
## 23 Ventilation

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

24 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 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 1080i and 720p resolutions.



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



A unique invisible speaker system tuned by renowned audio expert, Mr. Mark Levinson. Speakers are embedded in strategic spots behind the front cabinet and use minute vibrations to turn the entire front bezel into the speaker system. The result is 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 its surroundings, more pleasing to watch and which can also save up to 50% in power consumption.



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

Dolby Digital is supported by the TV main features.

Dolby Digital Plus is only supported by VUDU & MY MEDIA.



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



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



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



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



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



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



Unlimited instant access to movies and TV shows with Netflix subscription.



Yahoo! TV Widgets give you the best of the Internet in perfect harmony with the simplicity and reliability of your TV. TV Widgets deliver a Cinematic Internet™ experience by converting your favorite web services for viewing on the TV.



Stream movies, TV shows and video, and get up to the minute news, stock information and weather updates directly to your TV using Yahoo!, Netflix, YouTube and Vudu.



**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](http://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](http://vod.divx.com) with this code to complete the registration process and learn more about DivX VOD.

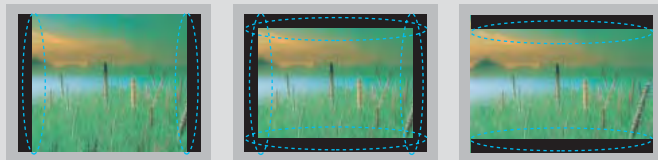
"DivX Certified to play DivX video up to HD 1080p, including premium content"

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



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

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



### 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.

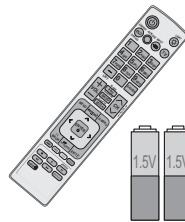
The accessories included may differ from the images below.



Owner's Manual

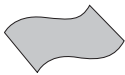


CD Manual,  
Program CD



Remote Control,  
Batteries (AAA)

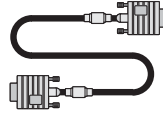
### Not included with all models



Polishing Cloth

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

### Option Extras

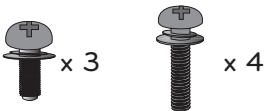


D-sub 15 pin Cable

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

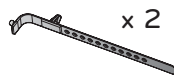
### Plasma TV

(For 50PK750)



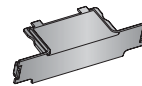
(M5 x 14) (M4 x 28)

Screws for stand assembly  
(Refer to P.14)



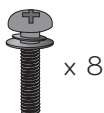
x 2

Cable Holder  
(Refer to p.19)



Protection Cover  
(Refer to p.15)

### LCD TV (32/42/46/52/60LD550, 47/55LD650)



x 8

(M4 x 20)

Screws for stand assembly  
(Refer to P.16)

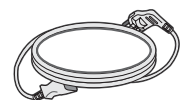
(For 32/42LD550)



Screw for stand fixing  
(Refer to P.22)




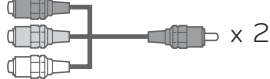


Protection Cover  
(Refer to P.17)



Power Cord

**LCD TV (42/47/55LE5400, 42/47/55/60LE5500, 42/47/55LE7500, 47/55LE8500)**

 x 8 (M4 x 20)	<p>(For 42/47LE5400, 42/47LE5500, 42/47LE7500)</p> 		<p>(For 42/47LE5400, 42/47LE5500, 47/55LE8500)</p>  x 2
<p>Screws for stand assembly (Refer to P.16)</p>	<p>Screw for stand fixing (Refer to P.22)</p>	<p>Cable Holder (Refer to p.19)</p>	<p>Component/Audio Cable (Refer to p.19)</p>

## OPTIONAL EXTRAS

Optional extras can be changed or modified for quality improvement without any notification new optional extras can be added.

Contact your dealer for buying these items.

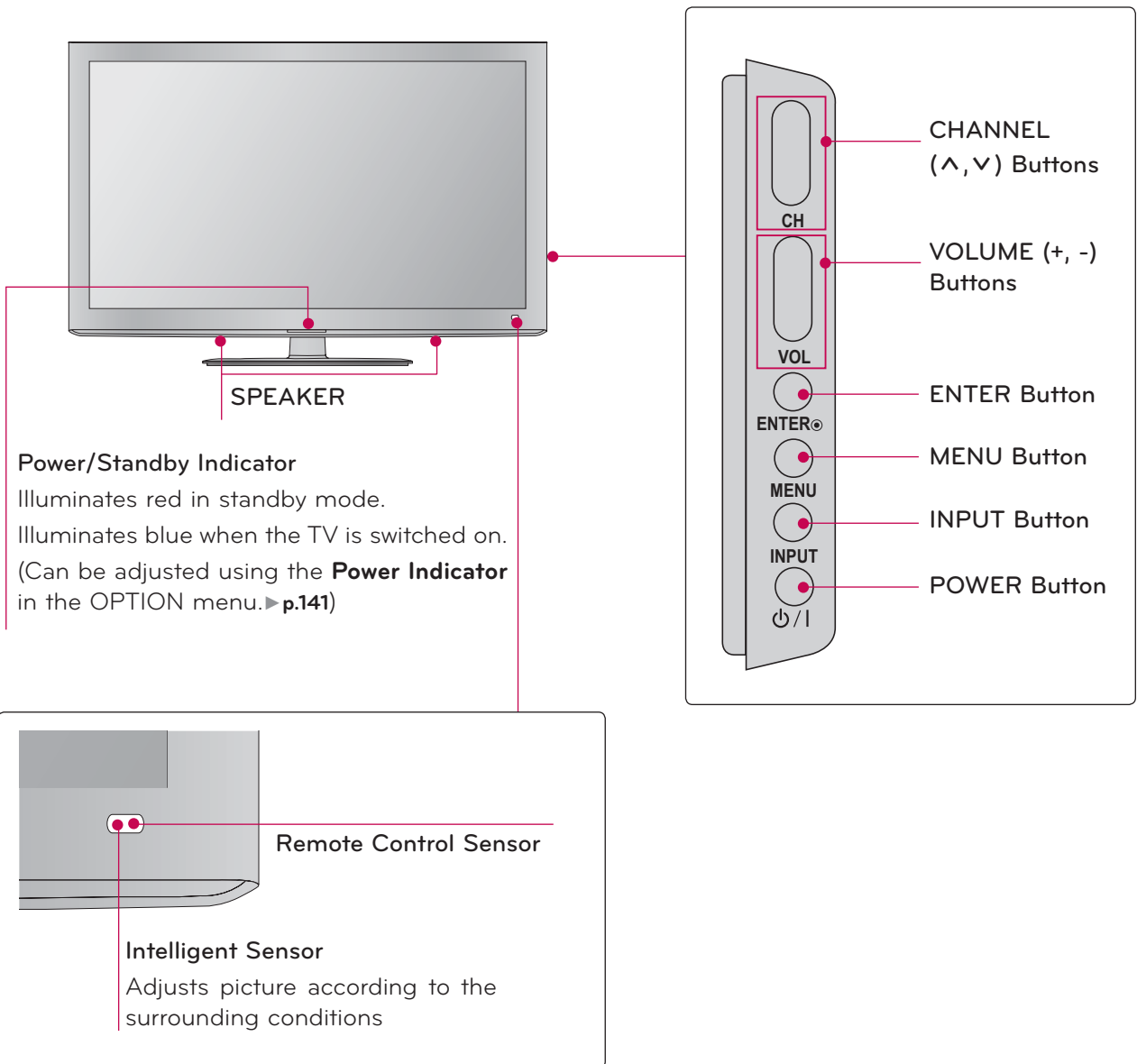
Wireless Media Box  
(AN-WL100W)

Wi-Fi Dongle  
(AN-WF100)

Video Call Cam  
(AN-VC100)

LCD TV

32/42/46/52/60LD550

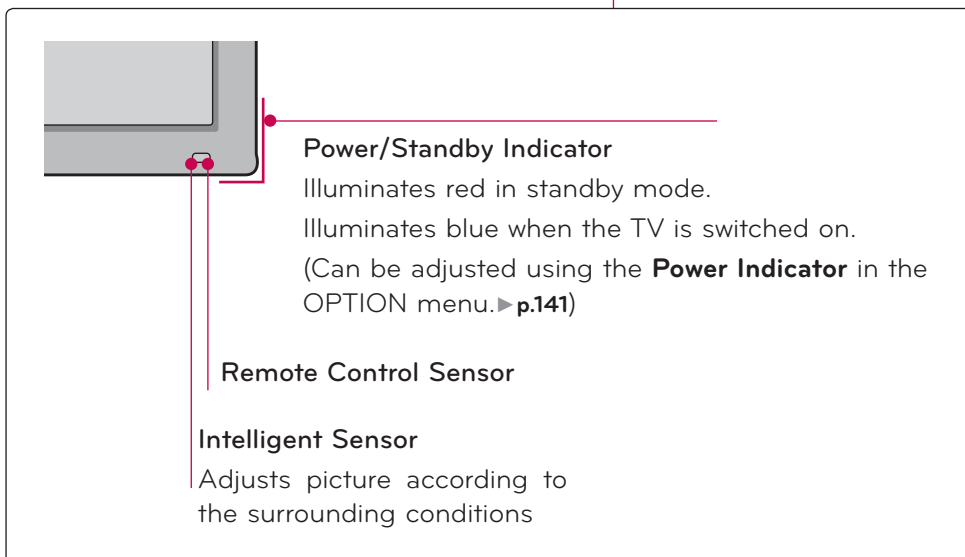
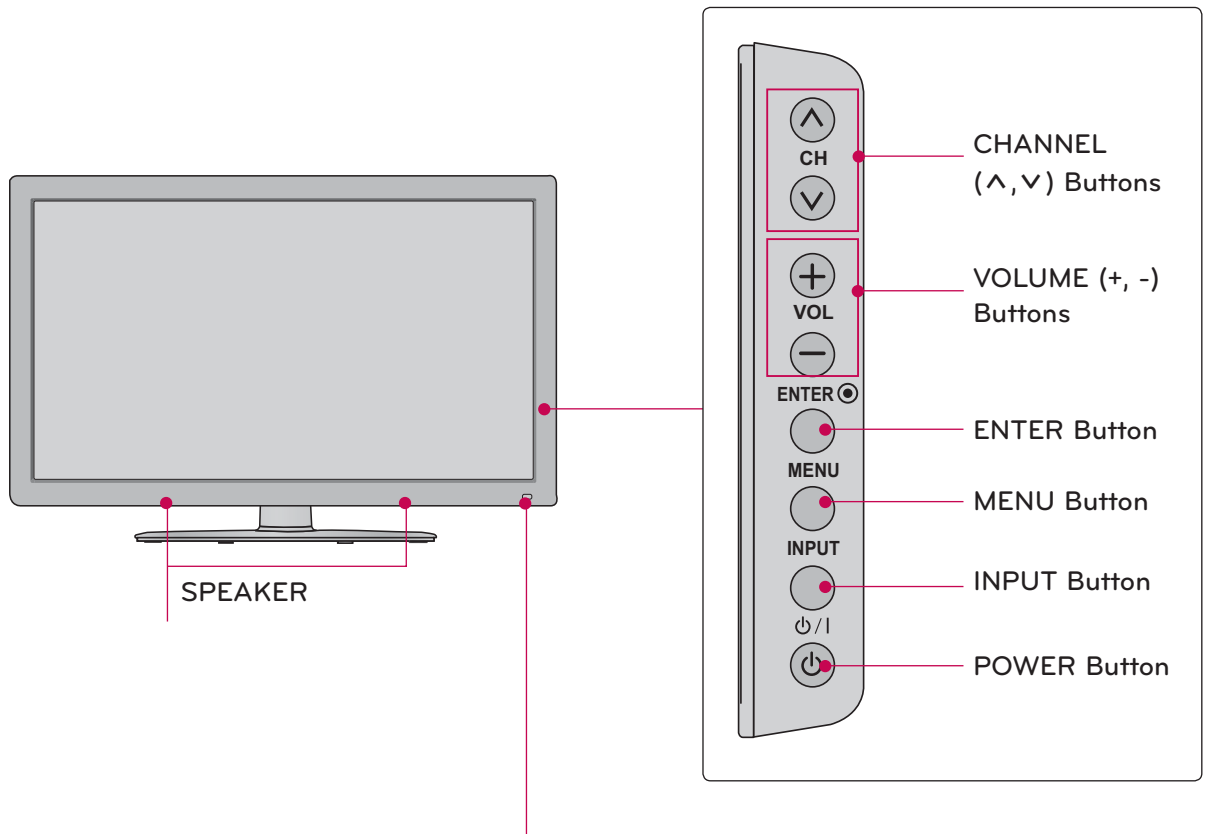


# PREPARATION

■ Image shown may differ from your TV.

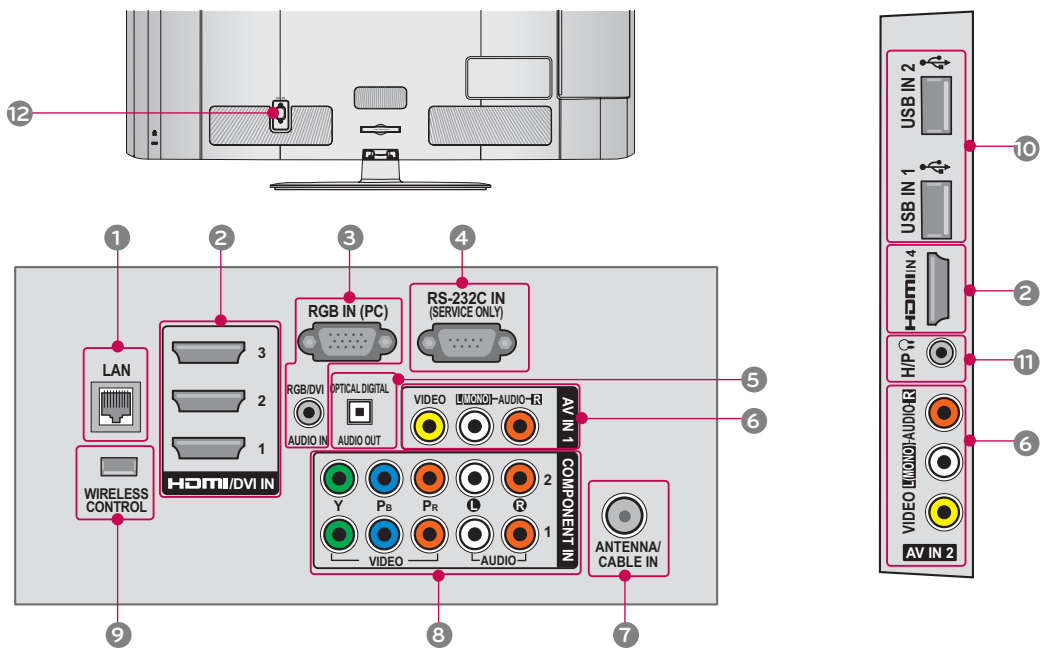
PREPARATION

47/55LD650



# LCD TV

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



**1 LAN**

Network connection for Netflix, Yahoo! TV Widgets, etc.

Also used for photo and music files on 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)

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

**4 RS-232C IN (CONTROL & SERVICE) PORT**

Used by third party devices.

This port is used for service or Hotel mode.

**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 signals to this jack.

Connect 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 Dongle to the TV to control the external input devices connected to Media Box wirelessly.](#)

**10 USB INPUT**

Used for viewing photos and listening to MP3s.

**11 HEADPHONE INPUT**

Plug the headphone into the headphone socket.

**12 Power Cord Socket**

For operation with AC power.

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

**13 REMOTE CONTROL IN PORT**

For a wired remote control.



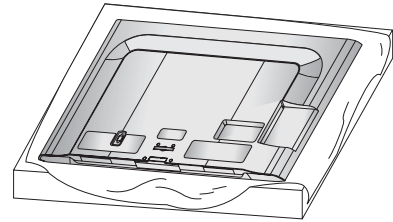
# PREPARATION

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

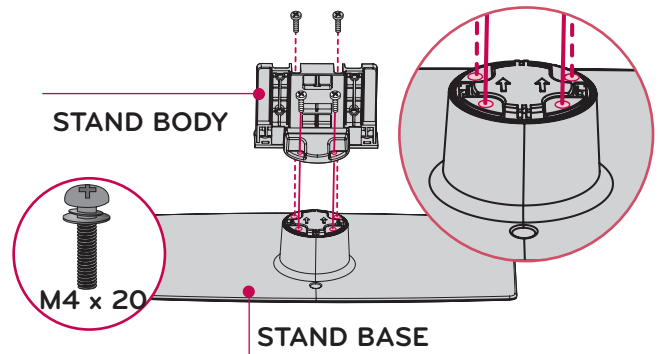
- Image shown may differ from your TV.

### INSTALLATION

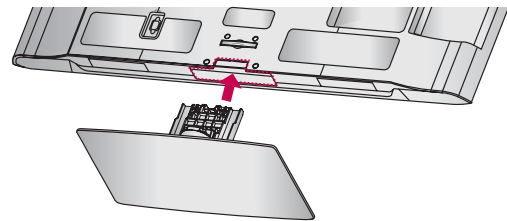
- Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



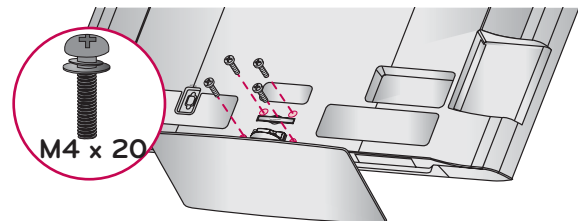
- Assemble the parts of the **STAND BODY** with the **STAND BASE** of the TV.



- Assemble the TV as shown.



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

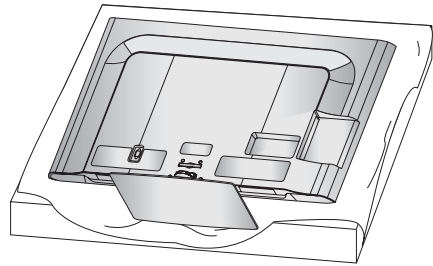


#### NOTE

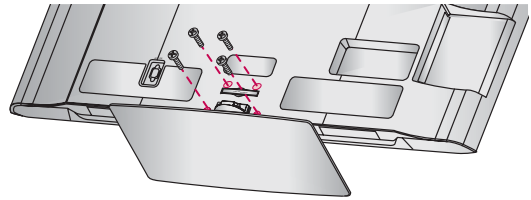
- When assembling the desk type stand, make sure the screws are fully tightened (If not tightened fully, the TV can tilt forward after the product installation). Do not over tighten.

## DETACHMENT

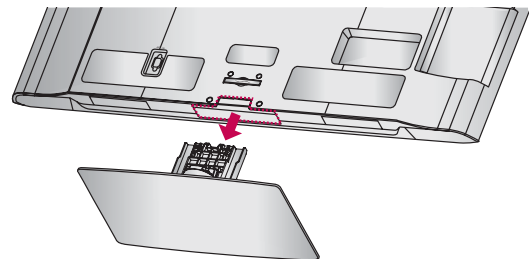
- 1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



- 2 Remove the screws from the TV.



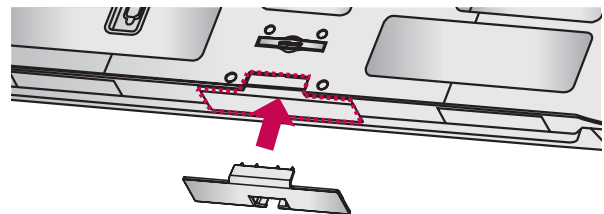
- 3 Detach the stand from TV.



## PROTECTION COVER

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.



# PREPARATION

## VESA WALL MOUNTING

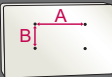
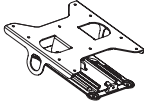
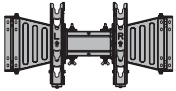
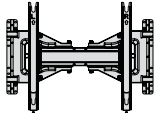
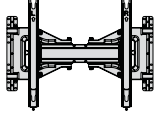
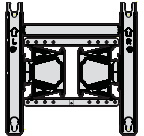
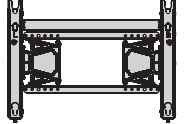
Install your wall mount on a solid wall perpendicular to the floor. When attaching to other building materials, please contact your nearest installer.

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.

PREPARATION

Model	VESA (A * B) 	Standar Screw	Quantity	Wall Mounting Bracket (sold separately)
32LD550 32LE5500	200 * 100	M4	4	RW230 
42/46LD550, 47LD650, 42/47LE5400, 37/42/47LE5500, 42/47LE7500, 47LE8500	200 * 200	M6	4	AW-47LG30M 
52LD550, 55LD550, 55LE5400, 55LE5500, 55LE7500, 55LE8500	400 * 400	M6	4	AW-55LH40M 
60LD550	600 * 400	M6	4	AW-55LH40M 
50PK750	400 * 400	M6	4	AW-50PG60MS 
60PK750	600 * 400	M8	4	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.

# PREPARATION

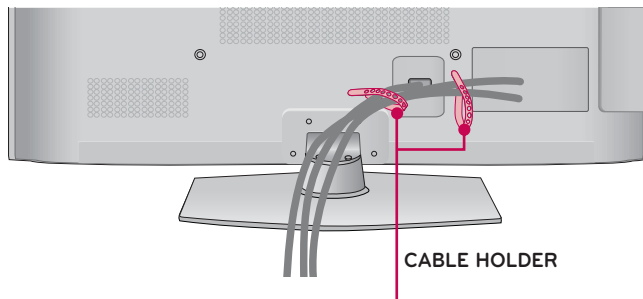
## CABLE MANAGEMENT

■ Image shown may differ from your TV.

PREPARATION

### Plasma TV

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



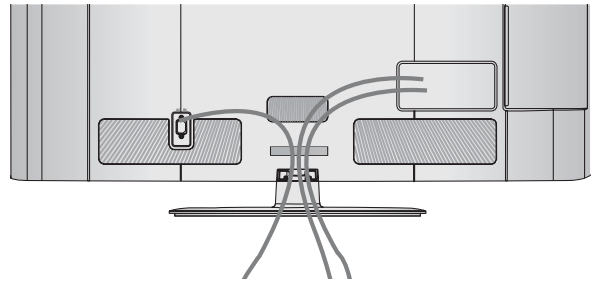
# CABLE MANAGEMENT

■ Image shown may differ from your TV.

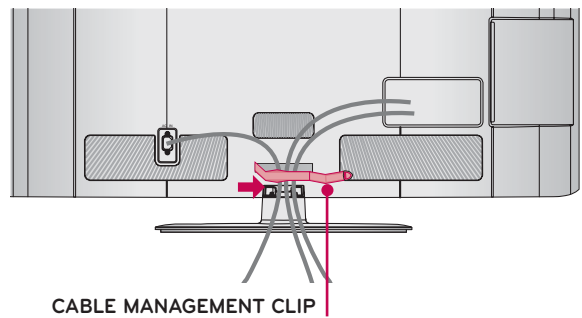
## LCD TV

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

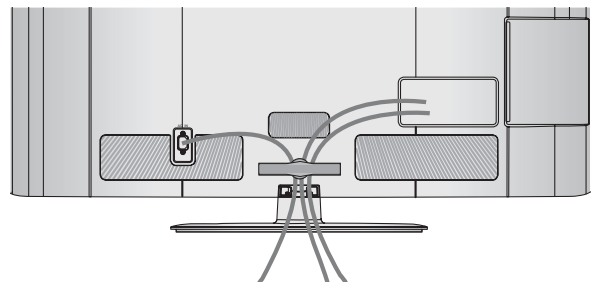
- 1 Connect the cables as necessary.  
To connect additional equipment, see the **EXTERNAL EQUIPMENT SETUP** section.



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



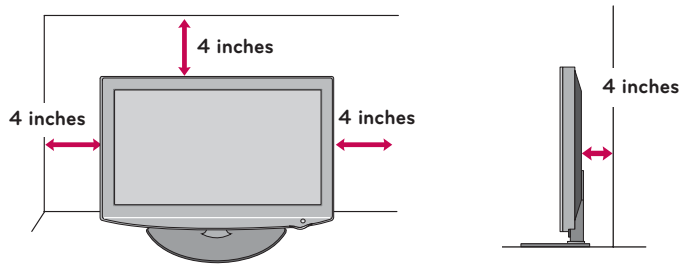
- 3 Put the cables inside the **CABLE MANAGEMENT CLIP** and snap it closed.



## DESKTOP PEDESTAL INSTALLATION

■ Image shown may differ from your TV.

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

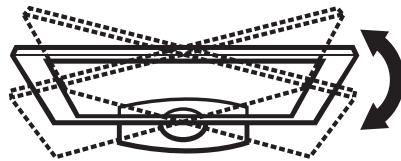


### ⚠ CAUTION

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

## SWIVEL STAND

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



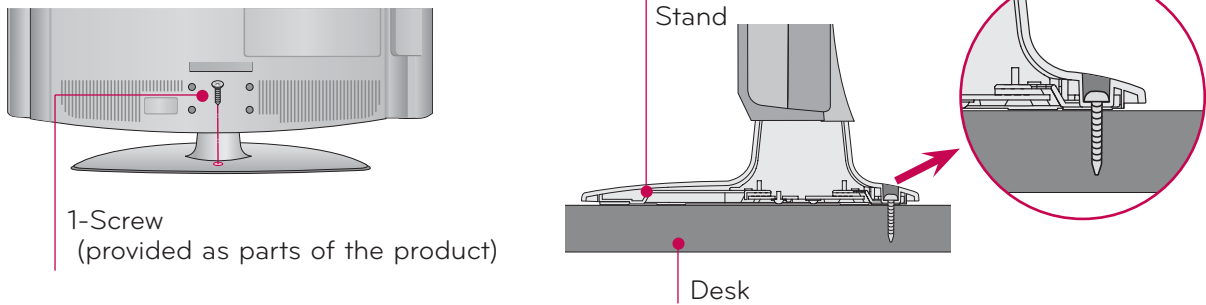
# PREPARATION

## ATTACHING THE TV TO A DESK

(For 32/42LD550, 42/47LE5400, 42/47LE5500, 42/47LE7500)

- 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.



### ⚠ 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.

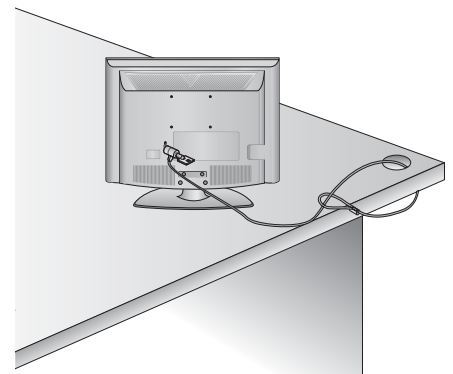
## KENSINGTON SECURITY SYSTEM

- 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.

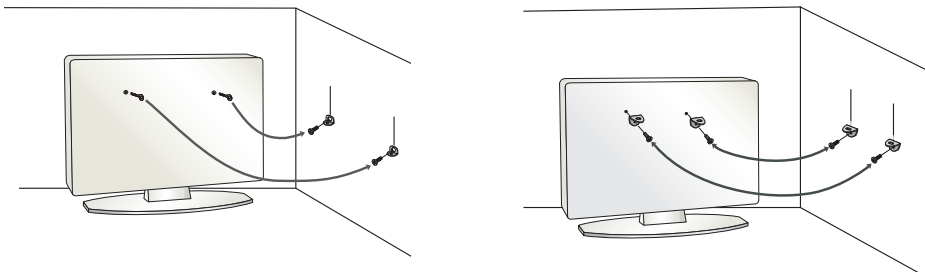
NOTE: The Kensington Security System is an optional accessory.



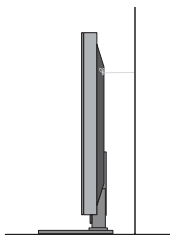


## SECURING THE TV TO THE WALL TO PREVENT FALLING WHEN THE TV IS USED ON A STAND

- 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.

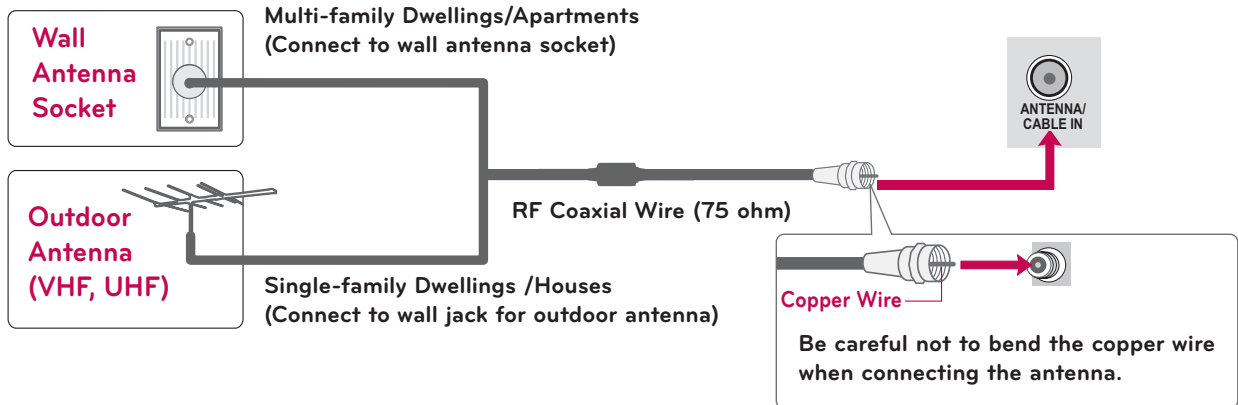
## ANTENNA OR CABLE CONNECTION

PREPARATION

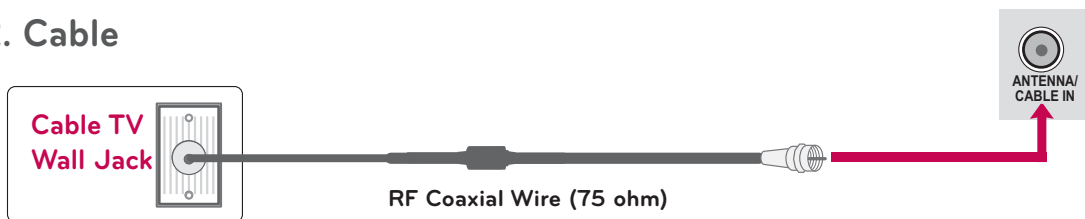
### 1. Antenna (Analog or Digital)

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

For optimum picture quality, adjust antenna direction if needed.



### 2. Cable



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

# EXTERNAL EQUIPMENT SETUP

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

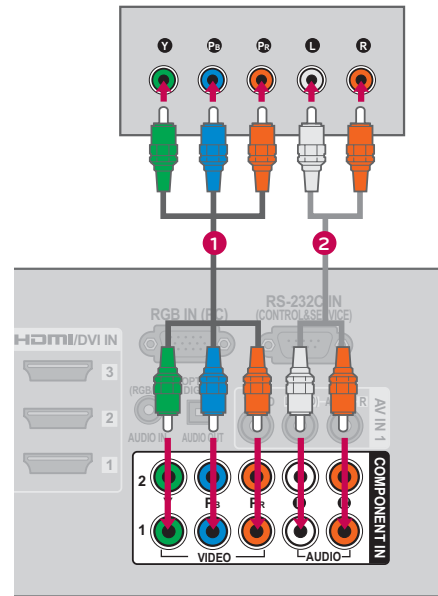
## HD RECEIVER SETUP

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



#### 2. How to use

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

#### Supported Resolutions

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

#### Y, CB/PB, CR/PR

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(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

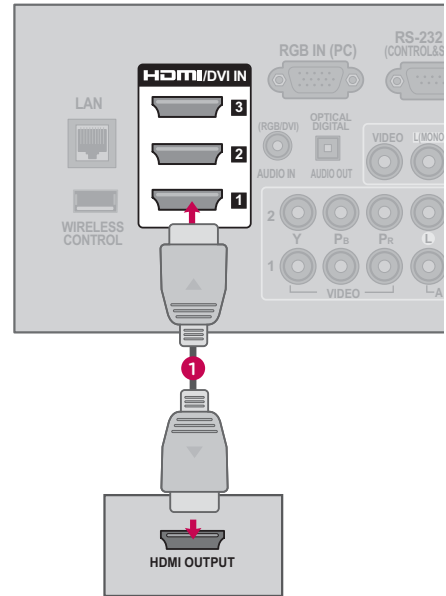
- 1 Connect the digital set-top box to **HDMI/DVI IN 1, 2, 3,** or **4** jack on the TV.
- 2 No separate audio connection is necessary. HDMI supports both audio and video.

### 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

- ▶ Check HDMI cable over version 1.3.  
If the HDMI cables don't support HDMI version 1.3, it can cause flickers or no screen display. In this case use the latest cables that support HDMI version 1.3.
- ▶ **HDMI Audio Supported Format: AC3 (32KHz, 44.1KHz,48KHz), Linear PCM (32KHz, 44.1KHz,48KHz)**



#### 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

# EXTERNAL EQUIPMENT SETUP

## DVI to HDMI Connection

### 1. How to connect

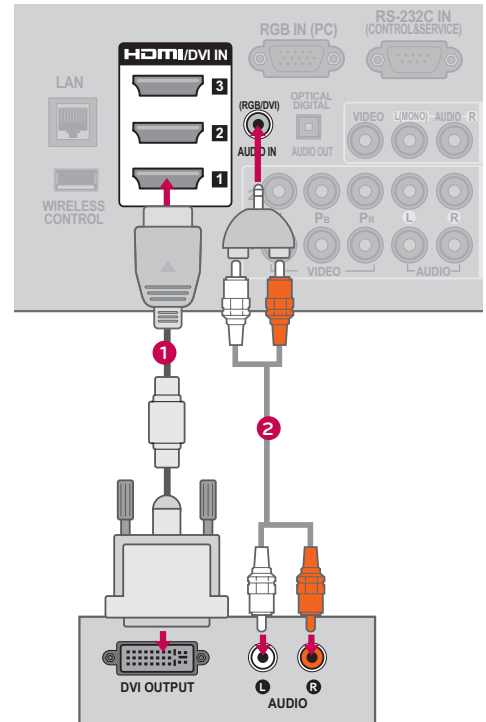
- 1 Connect the DVI output of the digital set-top box to the **HDMI/DVI IN 1, 2, or 3** jack on the TV.
- 2 Connect the digital set-top box audio output to the **AUDIO IN (RGB/DVI)** jack on the TV.

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

#### NOTE

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



# DVD SETUP

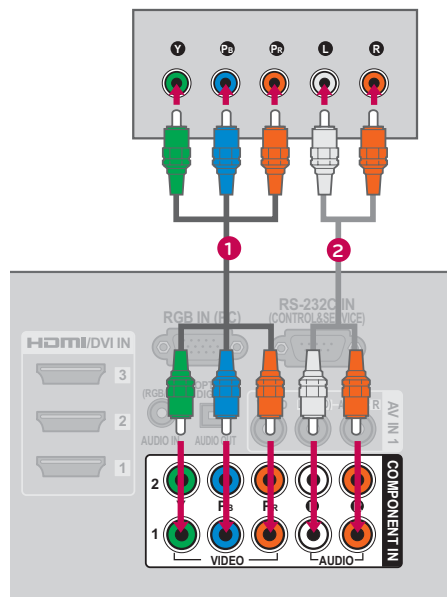
## Component Connection

### 1. How to connect

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

### 2. How to use

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



### Component Input ports

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

Component ports on the TV	Y	P <sub>B</sub>	P <sub>R</sub>
Video output ports on DVD player	Y	P <sub>B</sub>	P <sub>R</sub>
	Y	B-Y	R-Y
	Y	C <sub>b</sub>	C <sub>r</sub>
	Y	P <sub>b</sub>	P <sub>r</sub>

# EXTERNAL EQUIPMENT SETUP

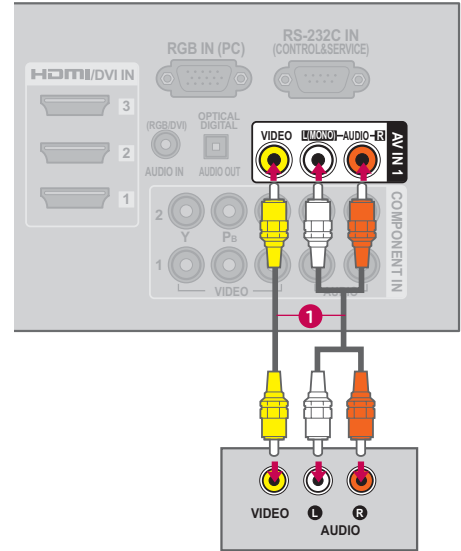
## Composite (RCA) Connection

### 1. How to connect

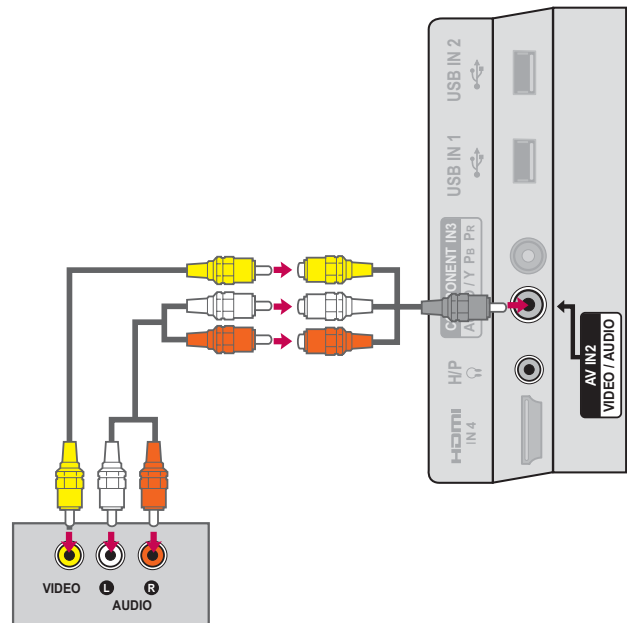
- 1 Connect the **AUDIO/VIDEO** jacks between TV and DVD. Match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red)

### 2. How to use

- Turn on the DVD player, insert a DVD.
- Select the **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 42/47LE5400, 42/47LE5500, 47/55LE8500



## HDMI Connection

### 1. How to connect

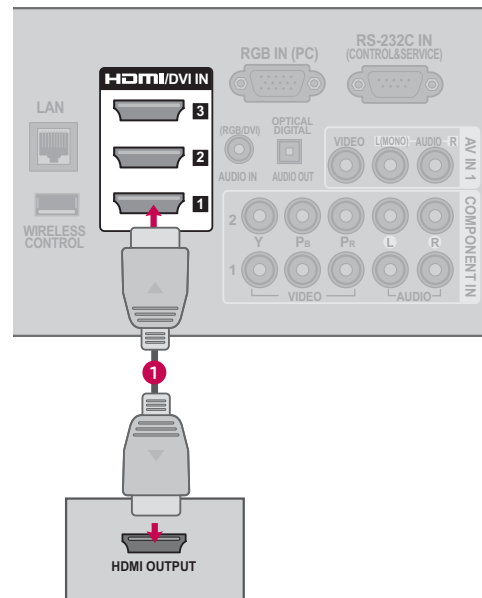
- 1 Connect the HDMI output of the DVD to the **HDMI/DVI IN 1, 2, 3** or **4** jack on the TV.
- 2 No separate audio connection is necessary. HDMI supports both audio and video.

### 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

- ▶ Check HDMI cable over version 1.3.  
If the HDMI cables don't support HDMI version 1.3, it can cause flickers or no screen display. In this case use the latest cables that support HDMI version 1.3.
- ▶ **HDMI Audio Supported Format: AC3 (32KHz, 44.1KHz,48KHz), Linear PCM (32KHz, 44.1KHz,48KHz)**





# EXTERNAL EQUIPMENT SETUP

## VCR SETUP

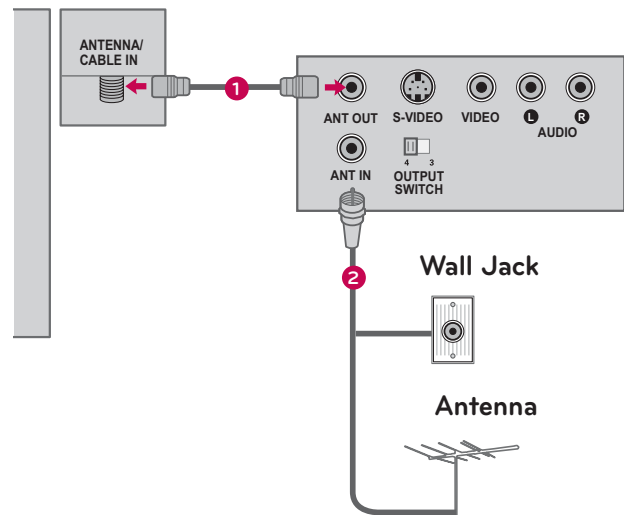
### Antenna Connection

#### 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

- 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.



## Composite (RCA) Connection

### 1. How to connect

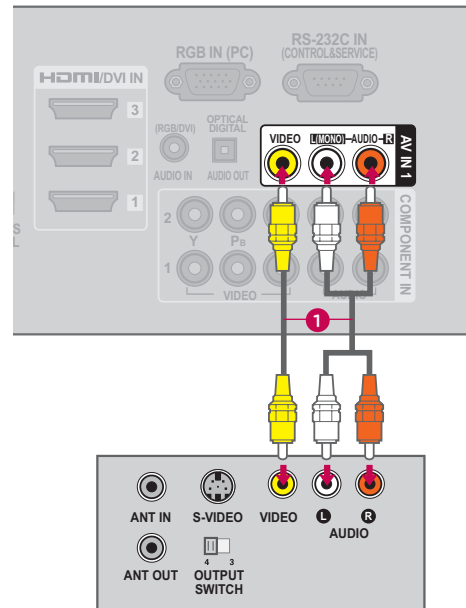
- 1 Connect the **AUDIO/VIDEO** jacks between TV and VCR. Match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red)

### 2. How to use

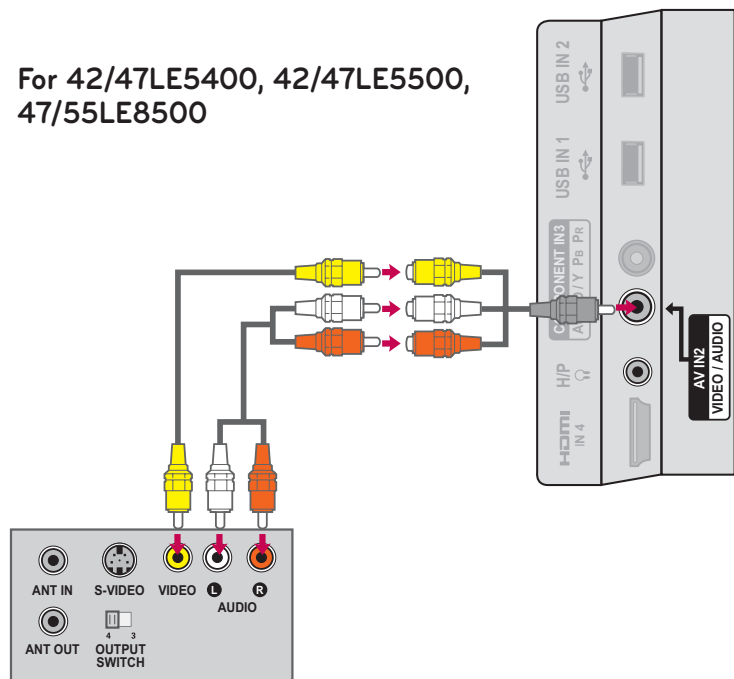
- Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
- Select the **AV1** input source on the TV using the **INPUT** button on the remote control.
- If connected to **AV IN 2**, select **AV2** input source on the TV.

#### NOTE

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



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



# EXTERNAL EQUIPMENT SETUP

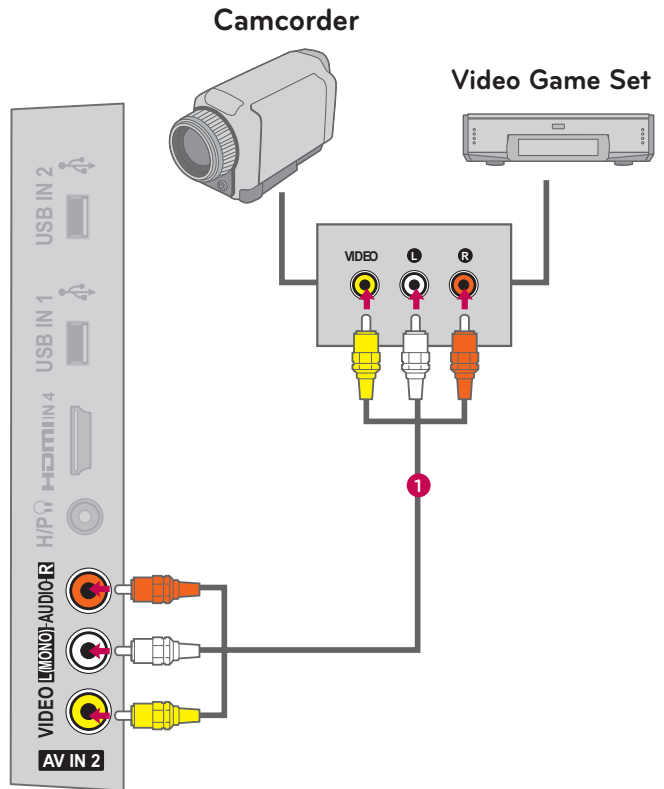
## OTHER A/V SOURCE SETUP

### 1. How to connect

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

### 2. How to use

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



# USB CONNECTION

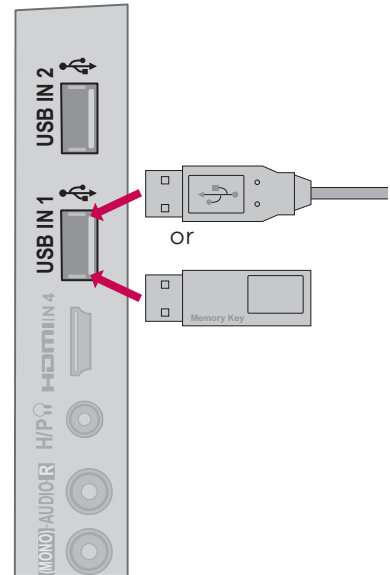
## 1. How to connect

---

- 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.90)



# EXTERNAL EQUIPMENT SETUP

## HEADPHONE SETUP

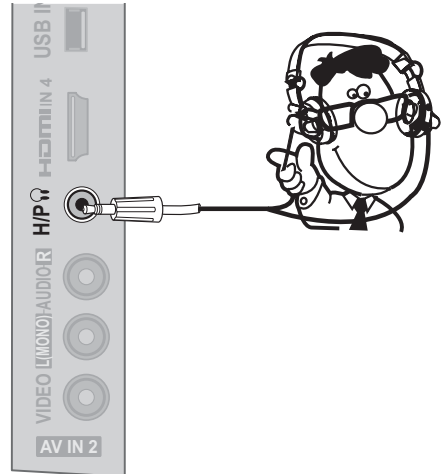
You can listen to the sound through the headphone.

### 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

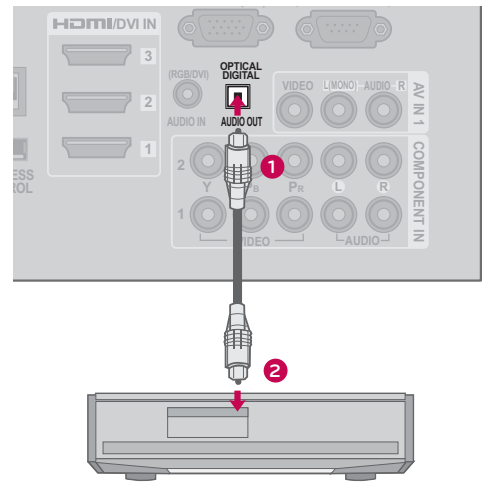
- 1 Connect one end of the optical cable to the TV port of **OPTICAL DIGITAL AUDIO OUT**.
- 2 Connect the other end of the optical cable to the digital audio input on the audio equipment.
- 3 Set the "TV Speaker option - Off" in the AUDIO menu. (▶ p.149). See the external audio equipment instruction 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.149)

### CAUTION

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



# EXTERNAL EQUIPMENT SETUP

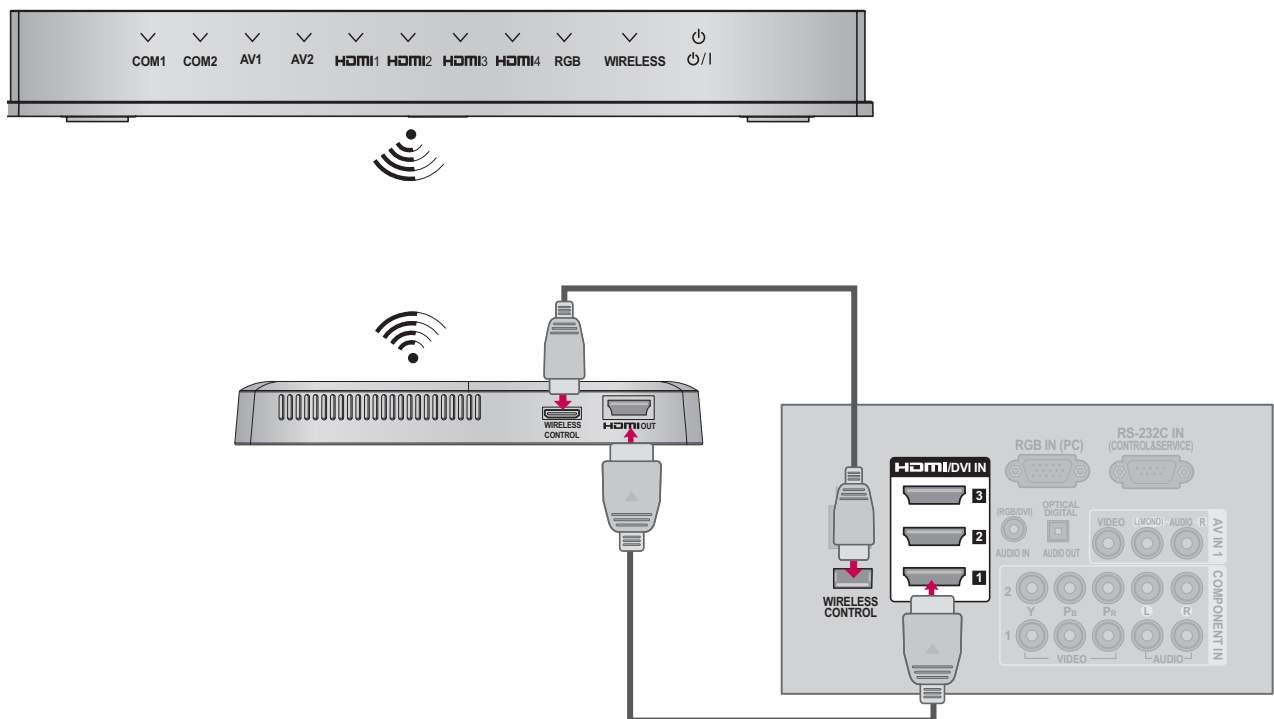
## EXTERNAL EQUIPMENT WIRELESS CONNECTION (OPTIONAL)

You can connect between TV and external equipment wirelessly.

You can connect the Wireless Dongle to the TV to control the external input devices connected to Media Box wirelessly.

You can control the remote control of external device (VCR, DVD player etc.) connected to the Media box from the TV using the infrared controller called IR-Blaster.

For further information, refer to the optional "LG Wireless Media Box (AN-WL100) (Sold separately)" manual for operating instructions.



### 1. How to connect

- 1 Connect the **WIRELESS CONTROL** jack of the Wireless Dongle to the **WIRELESS CONTROL** jack on the TV.
- 2 Connect **HDMI OUT** jack of the Wireless 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 the PC adjusts automatically to the TV's settings.

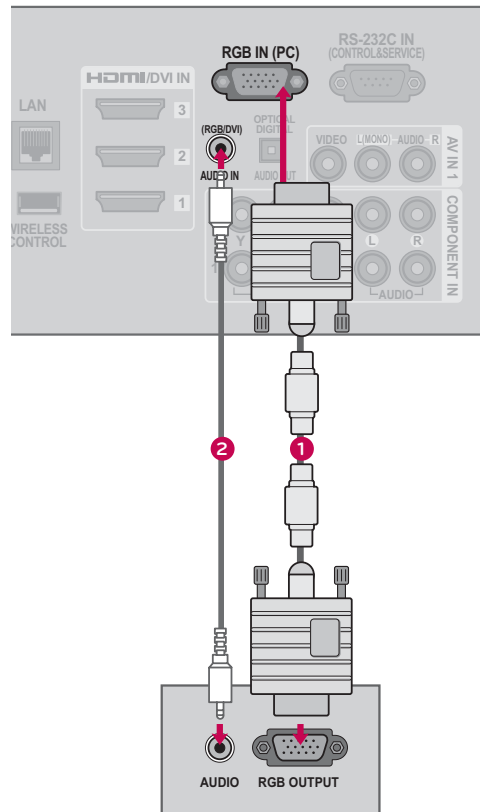
## VGA (D-Sub 15 Pin) Connection

### 1. How to connect

- 1 Connect the VGA output of the PC to the **RGB IN (PC)** jack on the 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.





# EXTERNAL EQUIPMENT SETUP

## DVI to HDMI Connection

### 1. How to connect

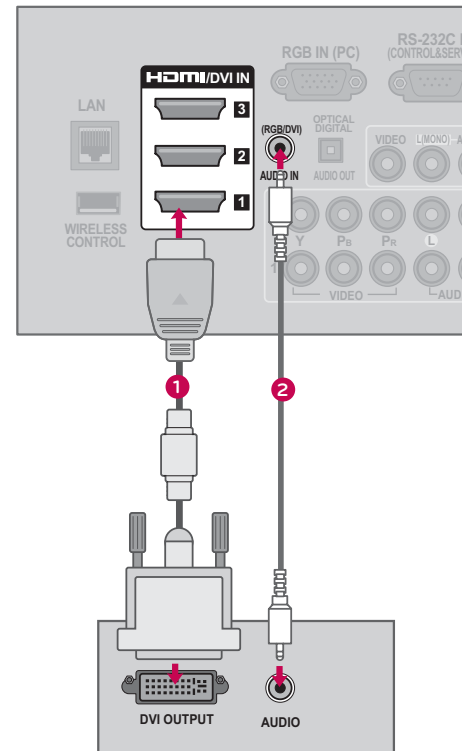
- 1 Connect the DVI output of the PC to the **HDMI/DVI IN 1, 2, or 3** jack on the TV.
- 2 Connect the PC audio output to the **AUDIO IN (RGB/DVI)** jack on the TV.

### 2. How to use

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

#### NOTE

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



**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 there are overscan in HDMI-PC 1920x1080, change aspect ratio to **Just scan**.
- ▶ When selecting HDMI-PC, set the "Input Label - PC" in the OPTION menu.

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

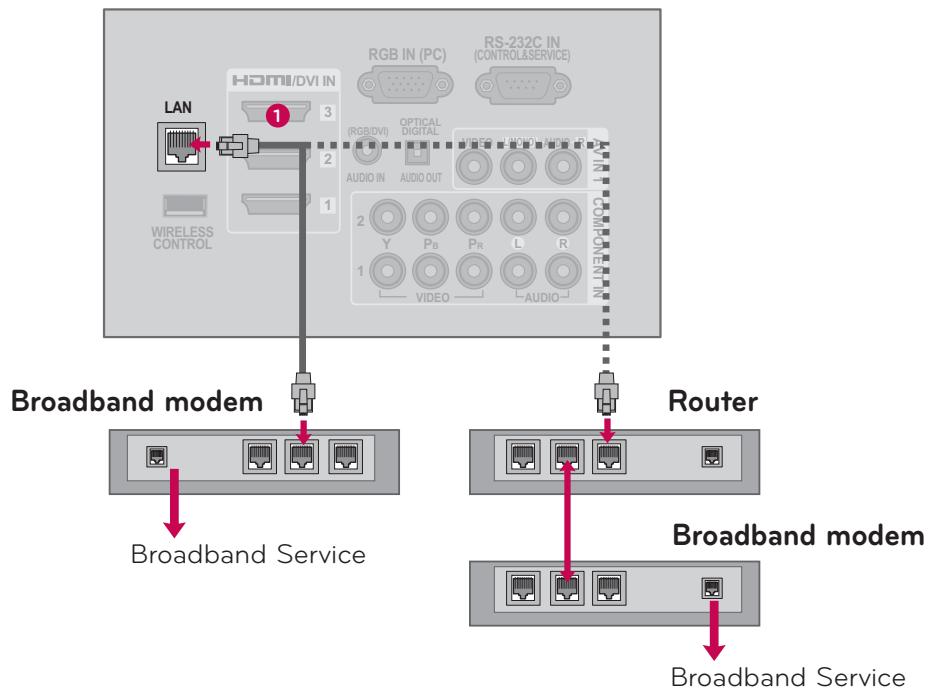
Resolution	Horizontal Frequency(KHz)	Vertical Frequency(KHz)
640x350	31.468	70.09
720x400	31.469	70.08
640x480	31.469	59.94
800x600	37.879	60.31
1024x768	48.363	60.00
1280x768	47.776	59.87
1360x768	47.712	60.015
1280x1024	63.981	60.02
1600x1200	75.00	60.00
1920x1080 RGB-PC	66.587	59.934
1920x1080 HDMI-PC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

# EXTERNAL EQUIPMENT SETUP

## 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 - IP Auto Setting**" in the NETWORK menu (▶ p.?).
- After connecting the **LAN** port, use the NetCast menu (Yahoo! TV Widgets, Netflix, Vudu, YouTube, My Media etc.) (▶ p.70-127).

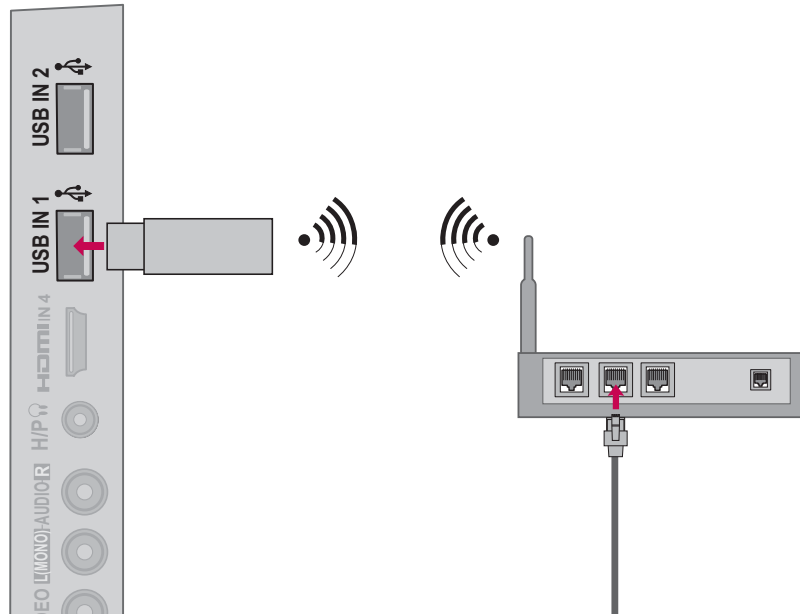
### ⚠ CAUTION

- ▶ 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.

## Wireless Network Connection

This connection is to use an Access Point or an wireless router.

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 Wi-Fi Dongle (AN-WF100) (sold separately)" to the **USB IN 1** or **2** port on the TV.

### 2. How to use

- Select "**Network Setting - IP Auto Setting**" in the NETWORK menu (▶ p.?).

#### Wi-Fi Dongle (AN-WF100) SPEC

Standard	IEEE 802.11a/b/g/n
Host interface	USB 2.0
Frequency Range	2.412GHz ~ 2.4835GHz 5.15 GHz ~ 5.850 GHz
Security	64/128bit WEP, WPA, TKIP, AES, WPS (PIN, PBC)
Data rate	802.11a/g: 54Mbps 802.11b: 11Mbps 802.11n: 300Mbps(40MHz)
Throughput	110Mbps @ 300Mbps

# EXTERNAL EQUIPMENT SETUP

## NOTE

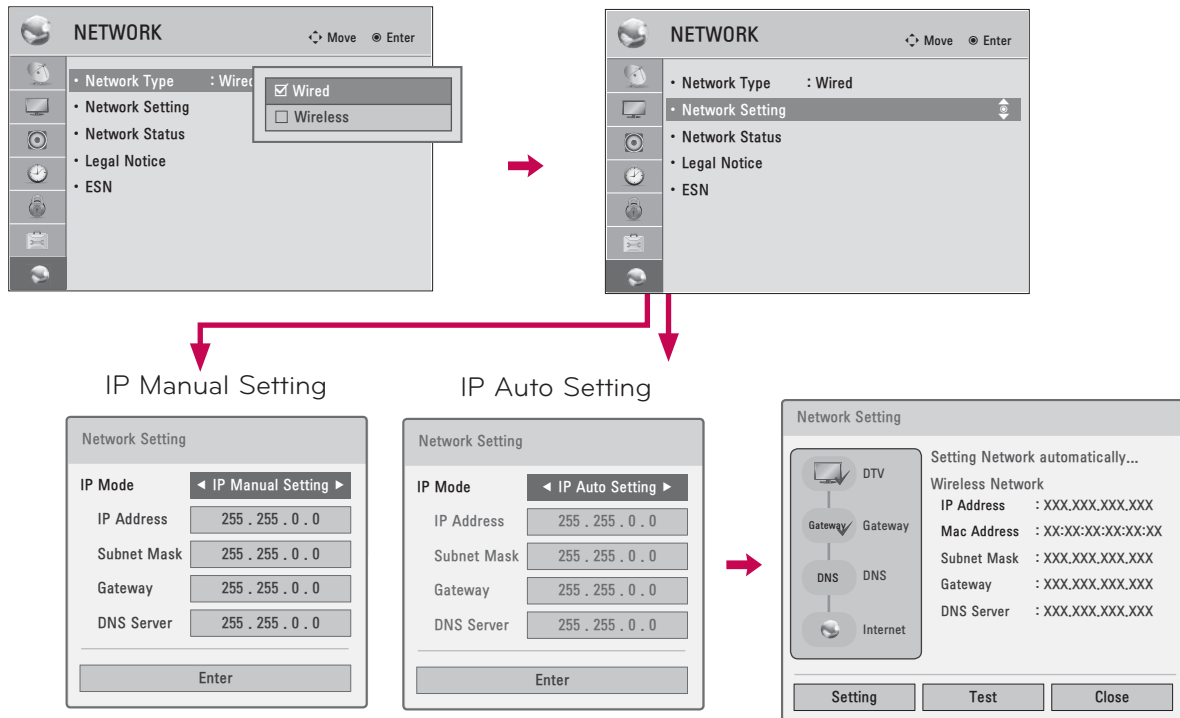
- ▶ Use a standard LAN cable with this TV. Cat5 or better with a RJ45 connector.
- ▶ Many network connection problems during set up can often be fixed by re-setting the router or modem. After connecting the player to the home network, quickly power off and/or disconnect the power cable of the home network 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 with in 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 sub-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 operate at 2.4GHz 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.
- ▶ Turn off all unused network equipment in your local home network. Some devices may generate network traffic
- ▶ For the purpose of the better transmission, placing the player from the access point as close as possible.
- ▶ In some instances, placing the access point or wireless router at least 1.5 ft (0.45m) above the floor may improve the reception.
- ▶ Move closer to the access point if possible or re-orient the player so there is nothing between it and the access point.
- ▶ The reception quality over wireless depends on many factors such as type of the access point, distance between the player and access point, and the location of the player.

## Wired Network Setup

If wired and wireless networks are both available, use Wired. Because the connected devices connect directly to the network and are not subject to radio frequency interference.

After making the physical connection, a small number of home networks may require the TV network setting to be adjusted.

For detail information, contact your internet provider or router manual.



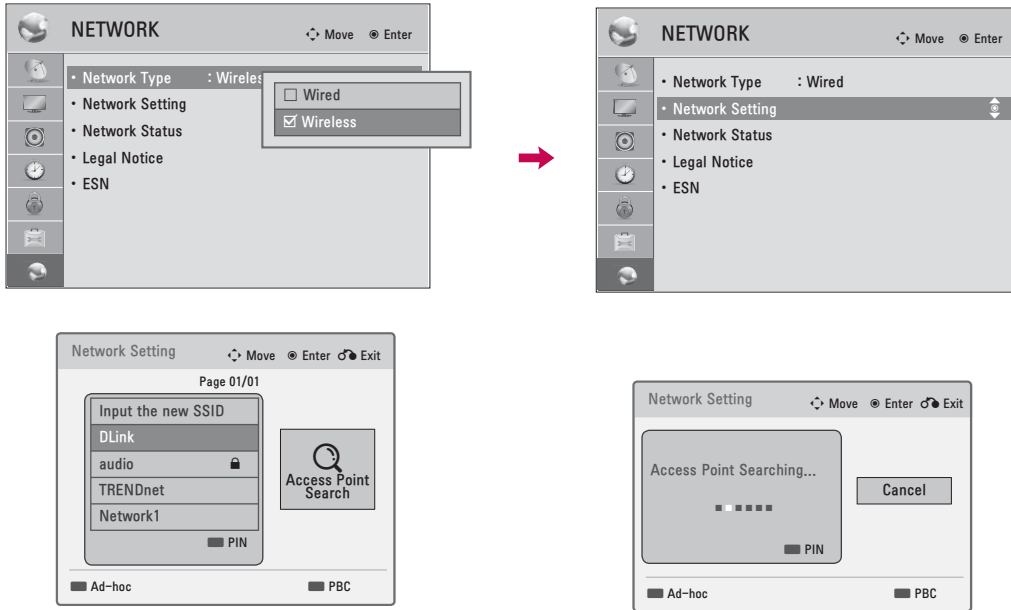
- 1 Select **NETWORK**.
- 2 Select **Network Type**.
- 3 Select **Wired**.
- 4 Select **Network Setting**.
- 5 Select **IP Auto Setting** or **IP Manual Setting**.
- 6 Select **Enter**.
- 7 When Selecting **IP Manual Setting**:  
Input the internet protocol.












- This feature requires an always-on broadband internet connection. You do not need to connect to a PC to use this function.
- If the **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.

# EXTERNAL EQUIPMENT SETUP

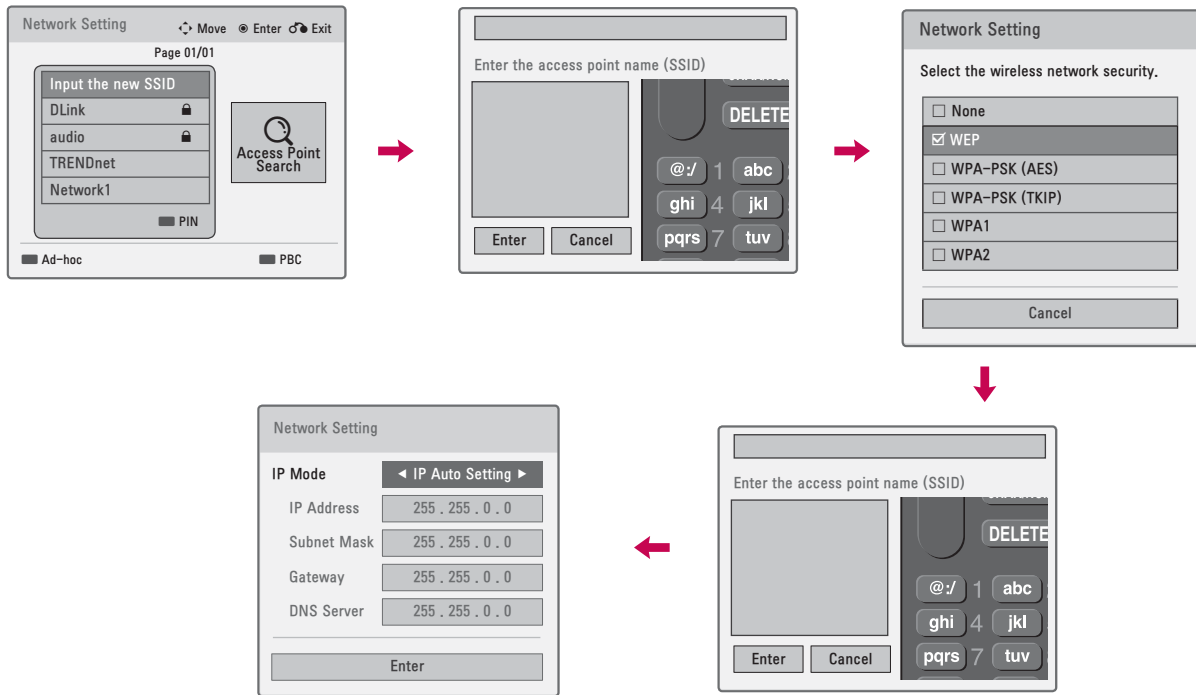
## Wireless Network Setup



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





-   Select **NETWORK**.
-   Select **Network Type**.
-   Select **Wireless**.
-   Select **Network Setting**.
-  Scan the all available AP (Access Point) or wireless routers within range and display them as a list.
-   Select an AP (Access Point) or wireless router on the list.

## Direct Input Connection: When a security code is not set



7   When selecting **Direct Input**, Input the SSID (Service Set Identifier).

8   Select the wireless network security.

9   Input the password.

Repeat step 5-7 on P.?

- If you have security on your AP (Access Point) or wireless router, verify that the WEP (Wired Equivalent Privacy) or WPA (Wi-Fi Protected Access) key that was entered into the TV matches the router's information exactly. You need to input the security code as necessary.
- WEP security mode generally have 4 keys available on an access point or wireless router's setting. If your access point or wireless router use WEP security, enter the security code of the key "No.1" to connect on your home network.
- An Access Point is a device that allows you to connect to your home network wirelessly.

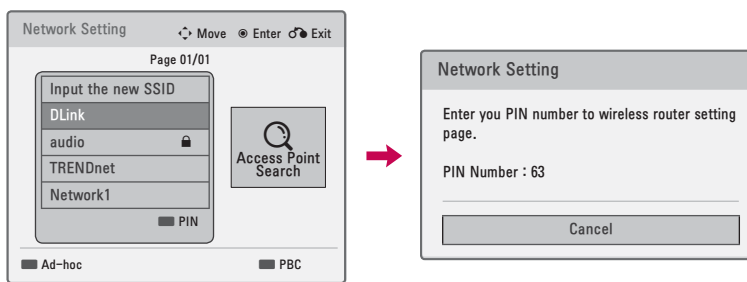


# EXTERNAL EQUIPMENT SETUP

## WPS (Wi-Fi Protected Setup) Connection: When a security code is already set)

If your access point or wireless router that supports WPS, 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.

### PIN (Personal Identification Number)

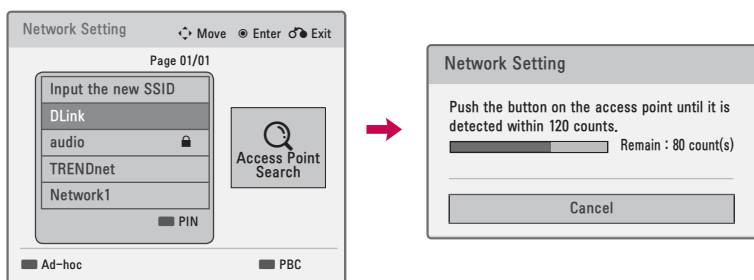


Connect the access point as **PIN**.

- PIN Number 는 Dongle 이 가지고 있는 고유의 8자리 숫자임

Repeat step 5-7 on P.?

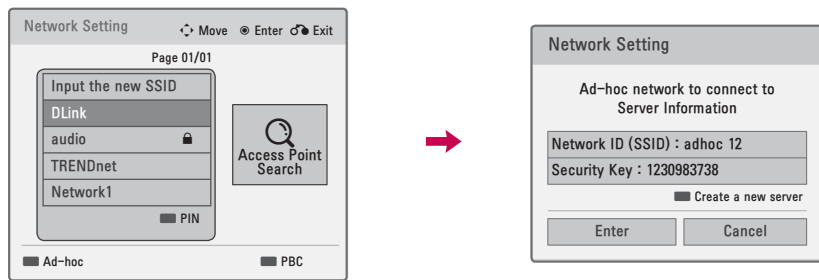
### PBC (Push Button Configuration)



Connect the access point as **PBC**.

## AD-hoc Mode

AP 없이, 통신하고자 하는 기계와 직접(direct) 연결하여 통신하는 방법  
마치 크로스케이블로 2 대의 PC 를 연결하는 것과 동일함



7 **YELLOW** Enter the **ad-hoc** mode.

8 **ENTER** Select **ENTER**.

- If a network may not operate, create a new server, using the **YELLOW** button.

# WATCHING TV / CHANNEL CONTROL

## REMOTE CONTROL FUNCTIONS

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

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

**LIGHT** Illuminates the remote control buttons.

**ENERGY SAVING** Adjusts the Energy Saving setting. ▶ p.138

**AV MODE** Toggles through preset Video and Audio modes. ▶ p.64

**INPUT** Rotates through inputs. Also switches the TV on from standby. ▶ p.62

**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.

**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. (Yahoo! TV Widgets, Netflix, Vudu, YouTube, My Media etc.)

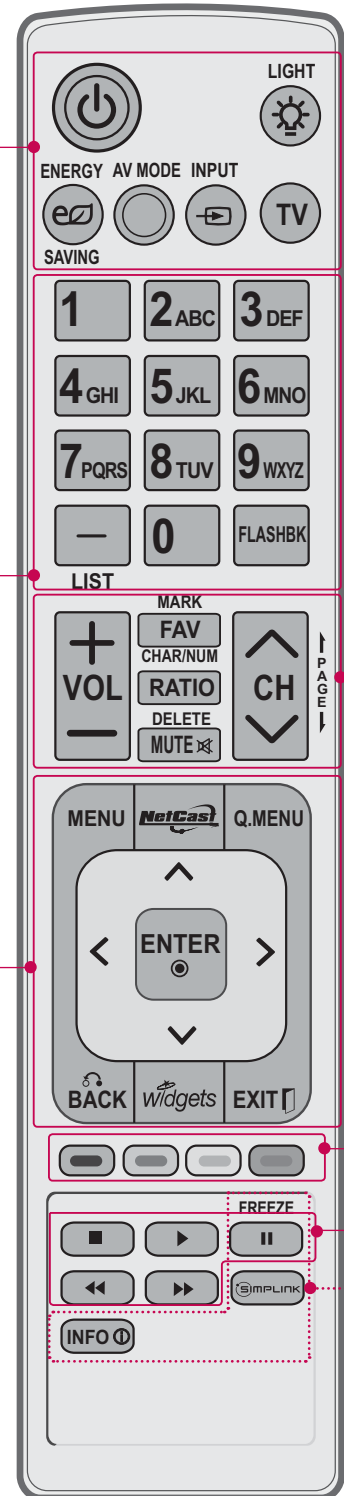
**Q.MENU** Opens the list of Quick Menu options. ▶ p.

**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. ▶ p.70-77

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



**VOLUME UP/DOWN**

Adjusts the volume.

**FAV** Set up desired favorite channels list. ▶ p.59

**MARK** Select the input to apply the Picture Wizard settings. ▶ p.131  
Use to mark or unmark a photo/music/movie. ▶ p.94, 99, 103

**RATIO** Changes the aspect ratio. ▶ p.59

**CHAR/NUM** Shifts the Character or Number for YouTube.

**MUTE** Switches the sound on or off. ▶ p.50

**DELETE** Deleted the character or number on the screen for YouTube. ▶ p.50

**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 (Photo List, Music List, Movie List)
- Controls the SIMPLINK compatible devices.

**FREEZE (For Plasma TV)**

Freezes the current frame while viewing the TV, AV, Component, RGB-PC, or HDMI input source.

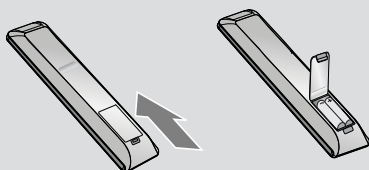
**SIMPLINK**

See a list of AV devices connected to TV.  
When you toggle this button, the SIMPLINK menu appears at the screen. ▶ p.66-67

**INFO**

Displays channel information at the top of the screen.


## Installing Batteries



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

# WATCHING TV / CHANNEL CONTROL

## TURNING ON THE TV

- 1 First, connect power cord correctly.  
At this moment, the TV switches to standby mode.
  - In standby mode to turn TV on, press the  I, **INPUT**, **CH CH** (**^** or **v**) button on the TV or press the **POWER**, **INPUT**, **CH** (**^** or **v**), **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 **v**) or **NUMBER** buttons to select a channel number.

## VOLUME ADJUSTMENT

Adjust the volume to suit your personal preference.

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

## 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

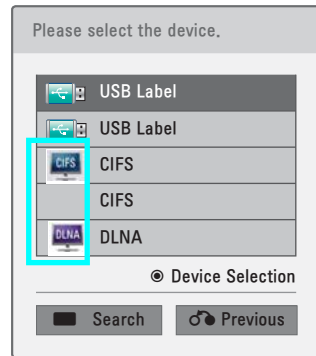
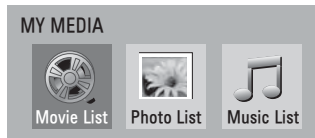
- ▶ Connect the HDMI/DVI IN or HDMI IN terminal of the TV to the rear terminal (HDMI terminal) of the SIMPLINK device with the HDMI cable
- ▶ When you switch the Input source with the INPUT button on the remote control, the SIMPLINK device will stop.
- ▶ When you select a device with home theater functionality, 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

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

Setup a USB device, CIFS, or DLNA with the TV to use MY MEDIA






-   Select **MY MEDIA**.
-   Select **Movie List**, **Photo List** or **Music List**.
-   Select the desired device.
-  Return to the previous menu.
-  Search other network device.

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

### When removing the USB device

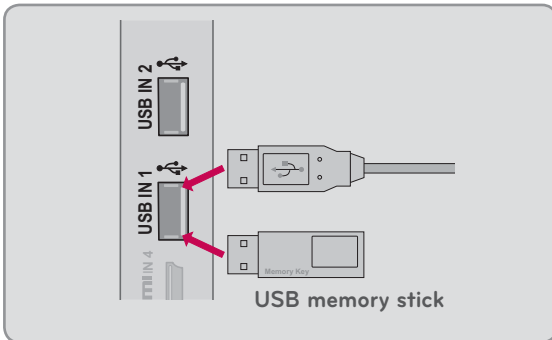
Select the **USB Device** menu before removing the USB device.

-   Select **USB Device**.
-  Select **Eject**.

# CONNECTION METHOD

## USB Connection

- 1 Connect the USB device to the **USB IN** jack on the 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 or image files.
- ▶ Please use only a USB storage device which was formatted as a FAT 32 or NTFS file system provided with the Windows operating system. Others may not be recognized.
- ▶ Some USB storage devices require a power adapter. The power adapter must be connected in order to be seen by the TV.
- ▶ If a device is not recognized by the TV, try a different cable. Excessively long cables are not supported.
- ▶ Some USB storage devices may not be supported or operate properly.
- ▶ Please backup important files because data on USB device could be damaged. Data management is consumer's responsibility and as a result, the manufacturer does not cover data damage.
- ▶ If your USB memory device has multiple partitions, or if you use a USB multi-card reader, you can use up to 4 partitions or USB memory devices.
- ▶ In case of USB storage devices formatted as NTFS, deletion is not supported.
- ▶ File alignment method of USB storage device is similar to Window XP and file names can be up to 100 English characters.
- ▶ The recommended capacity is 1TB or less for a USB external hard disk and 32 GB or less for USB memory.
- ▶ If a USB external hard disk with a "Energy Saving" function doesn't work, turn the hard disk off and on again to make it work properly. Refer to the user manual of the USB external hard disk.



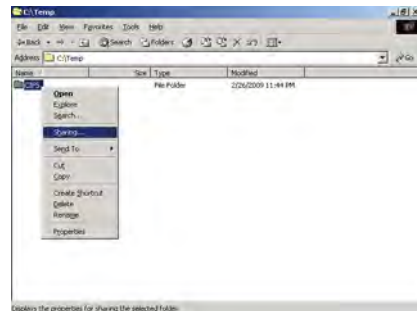
## CIFS (Common Internet File System)

### Share folder (CIFS: Common Internet File System) Setup

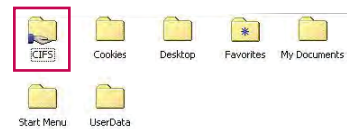
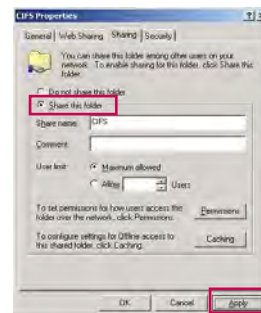
- The method of setting the shared folder may be different by the OS environment.

#### Case 1

- 1 Click **Sharing** on the CIFS folder under the C Drive.

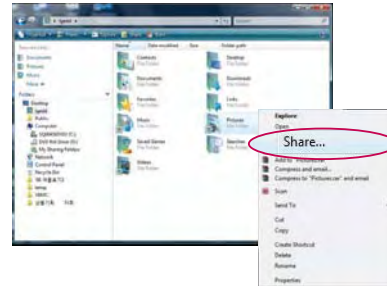


- 2 Check **Share this folder** and click **Apply**.



### Case 2 (For Window Vista)

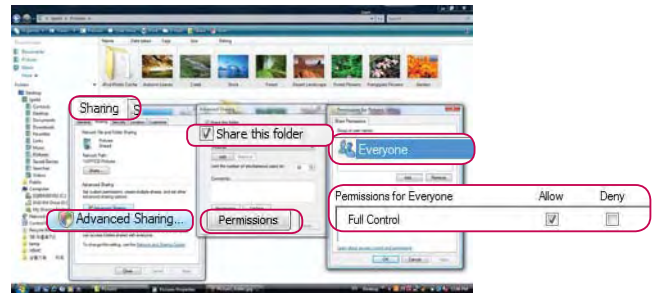
- 1 Choose the folder that you want to share. Then, right-click and click **Share**.



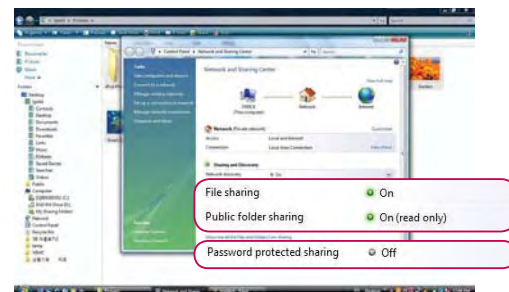
Add the **Everyone** and click **Share**.



- 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**.

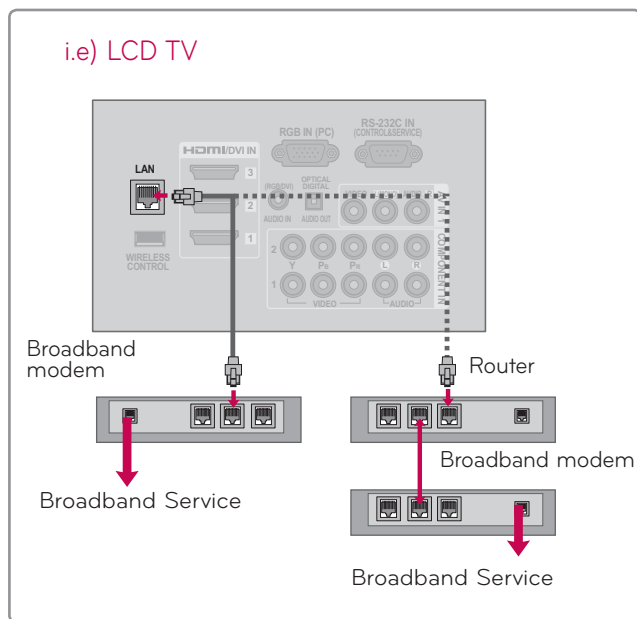


# MY MEDIA

## Viewing Files on the Network

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

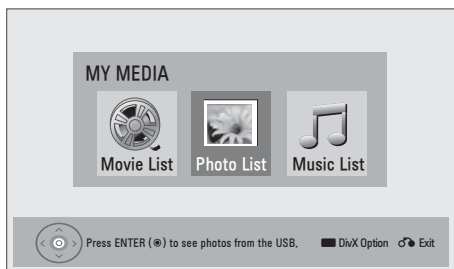
- 1 Set a share folder (CIFS: Common Internet File System) on the PC (Refer to P.?).
- 2 Connect the LAN port of the Modem or Router to the **LAN** port on the TV.



- ▶ 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.
- ▶ A maximum of 20 of shared folders on 4 computers are supported.
- ▶ When using file sharing from a computer, it is recommended you use a wired port of the hub.
- ▶ When using the wireless port of the hub to share the file on the PC, some functions can be limited.
- ▶ Because the TV does not support the wireless function using the USB dongle, My Media function only supports the wired environment.

3   Select **MY MEDIA**.

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



# 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 player, 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 player.
- ▶ 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 a software for sharing movie, music and photo files stored on your computer to this TV.

### 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

You must share the folder contained movie, music and/or photo content to play them using **MY MEDIA** features.

This parts explains the procedure for selecting the shared folders on your computer:

- 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 player.
- 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](http://www.nero.com) for more information and software tools.



# MY MEDIA

## Playing back shared contents



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

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

2   Select **MY MEDIA**.

3   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.

4   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] menu 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.
- ▶ The thumbnail of the unplayable files can be displayed in the [My Media] menu, but those cannot be played on this player.
- ▶ If there is an unplayable music file in the [My Media] menu, the player skip the file and play next file.
- ▶ The file information indicated on the screen may not correct for music and movie files in [My Media] menu
- ▶ Playing a movie subtitle files are only available on media server created by supplied Nero MediaHome 4 Essentials software on this player's package.
- ▶ 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 affected by your home network condition.
- ▶ The files from removable media such as USB drive, DVD-drive etc. on your media server may not be shared properly.

## File requirements

("jpg", "jpeg", "png", "avi", "divx", "mpg", "mpeg", "mp3", "wma", "pcm" (LPCM))

Available file extensions differ depending on the serves.

Music Files	
Sampling frequency	within 8 - 48 kHz (WMA), within 11 - 48 kHz (MP3), 44.1 and 48 kHz (LPCM)
Bit rate	Bit rate: within 8 - 320 kbps (WMA, MP3), 768Kbps and 1.536Mbps (LPCM)

Photo files	
Recommended photo size	Less than 4,000 x 3,000 x 24 bit/pixel Less than 3,000 x 3,000 x 32 bit/pixel

Movie files	
Available resolution size	1920 x1080 (W x H) pixels
Playable subtitle	SubRip (.srt / .txt), SAMI (.smi), SubStation Alpha (.ssa/.txt), MicroDVD (.sub/.txt), SubViewer 1.0 (.sub), SubViewer 2.0 (.sub/.txt), TMPlayer (.txt), DVD Subtitle System (.txt)
Playable Codec format	DIVX3.xx", "DIVX4.xx", "DIVX5.xx", "XVID", "DIVX6.xx" (Standard playback only), DIVX-HD, MPEG1 SS, MPEG2 PS, MPEG2 TS
Audio format	Dolby Digital", "DTS", "MP3", "WMA", "AAC", "AC3
Sampling frequency	within 32 - 48 kHz (WMA), within 16 - 48 kHz (MP3)
Bit rate	within 20 - 320 kbps (WMA), within 32 - 320 kbps (MP3)

### NOTE

- ▶ Maximum Files/Folder: Less than 2000 (total number of files and folders)
- ▶ The subtitle files are not displayed on the [My Media] menu.
- ▶ If there are more than 1 subtitle files at a folder, displaying priority is as follow:
  - ▶ The movie file and subtitle names are limited to 128 characters.
  - ▶ Not all the WMA and AAC Audio format is compatible with this unit.
  - ▶ The movie file encoded by the GMC (Global Motion Compensation) and Qpel (Quarter pixel) is not supported. Those are video encoding techniques in MPEG4 standard, like DivX or XVID have.



# MY MEDIA

## MOVIE LIST

It displays all of the video files it recognizes.

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

### Precautions when playing the video files

- ▶ Some user-created subtitles may not work properly.
- ▶ Some special characters are not supported in subtitles.
- ▶ HTML tags are not supported in subtitles.
- ▶ Subtitles in languages other than the supported languages are not available.
- ▶ Time information in an external subtitle file should be arranged in ascending order to be played.
- ▶ The screen may suffer temporary interruptions (image stoppage, faster playback, etc.) when the audio language is changed.
- ▶ A damaged video file may not be played correctly, or some player functions may not be usable.
- ▶ Video files produced with some encoders may not be played correctly.
- ▶ If the video and audio structure of recorded file is not interleaved, either video or audio is outputted.
- ▶ Video with resolution higher than maximum resolution supported for each frame, cannot be guaranteed for smooth playback.
- ▶ Movie files other than the specified types and formats may not work properly.
- ▶ The movie file encoded by the GMC (Global Motion Compensation) is not supported.
- ▶ Only the files saved in ASCII Code is supported in subtitles.
- ▶ Only 250 Korean characters, 500 alphabets and 500 numbers are supported for each line of the subtitle.
- ▶ Only 10,000 of sync blocks can be supported within the subtitle file.
- ▶ We do not guarantee smooth playback of profiles encoded level 4.1 or higher in H.264.
- ▶ DTS Audio codec is not supported.
- ▶ A video file more than 30GB in file size is not supported for playback.
- ▶ Playing a video via a USB connection that doesn't support high speed may not work properly.
- ▶ USB storage devices below USB 2.0 are supported as well. But they may not work properly in the movie list.
- ▶ The video file and its subtitle file must be located in the same folder.  
At this time, a video file name and its subtitle file name must be identical for it to be displayed.
- ▶ When you are watching the movie by Movie List function, you can adjust the picture by ENERGY SAVING and AV MODE button on the remote control. User setup for each picture mode does not operate.

## Supported DivX file

File Extensions	Audio/ Video	Codec	Profile/Level Support	Explanation
.asf .wmv .wma	Video	VC-1 Advanced Profile	Advanced Profile@Level 3 (e.g. 720p60, 1080i60, 1080p30)	Only streams compliant to SMPTE 421M VC-1 standard are supported.
		VC-1 Simple and Main Profiles	Simple Profile@Medium Level (e.g. CIF, QVGA) Main Profile@High Level (e.g. 1080p30)	
	Audio	WMA Standard		
		WMA 9 Professional		
.divx .avi	Video	DivX3.11		Global motion compensation or quarterpel motion estimation does not supported. Streams using this syntax are not supported.
		DivX4	Advanced Simple Profile (e.g. 720p/1080i)	
		DivX5		
		DivX6		
		XViD		
		H.264 / AVC	Main Profile@ Level 4.1 High Profile@ Level 4.1 (e.g. 720p60, 1080i60, 1080p30)	
.mp4 .m4a .m4v	Video	H.264 / AVC	Main Profile@ Level 4.1 High Profile@ Level 4.1 (e.g. 720p60, 1080i60, 1080p30)	Global motion compensation or quarterpel motion estimation does not supported. Streams using this syntax are not supported.
		MPEG-4 Part 2	Advanced Simple Profile (e.g. 720p/1080i)	
	Audio	AAC	AAC-LC and AAC-HE	
		MPEG-1 Layer I, II MPEG-1 Layer III (MP3) AC-3		
.mkv	Video	H.264 / AVC	Main Profile@ Level 4.1 High Profile@ Level 4.1 (e.g. 720p60, 1080i60, 1080p30)	Most of the MKV content available is encoded by the open source x264 codec.
	Audio	AAC AC-3	AAC-LC and AAC-HE	
.ts .trp .tp	Video	H.264 / AVC	Main Profile@ Level 4.1 High Profile@ Level 4.1 (e.g. 720p60, 1080i60, 1080p30)	Only streams compliant to SMPTE 421M VC-1 standard are supported.
		MPEG-2	Main Profile@High Level(e.g. 720p60, 1080i60)	
		VC-1	Simple Profile@Medium Level (e.g. CIF, QVGA) Main Profile@High Level (e.g. 1080p30) Advanced Profile@Level3 (e.g. 720p60, 1080i60, 1080p30)	
	Audio	MPEG-1 Layer I, II MPEG-1 Layer III (MP3) AC-3		
		AAC	AAC-LC and AAC-HE	
.vob	Video	MPEG-1		
		MPEG-2	Main Profile@High Level (e.g. 720p60, 1080i60)	
	Audio	AC-3 MPEG-1 Layer I, II DVD-LPCM		
.mpg	Video	MPEG-1 MPEG-2	Main Profile@High Level (e.g. 720p60, 1080i60)	Only streams compliant configured properly for TS, PS or ES
	Audio	MPEG-1 Layer I, II		

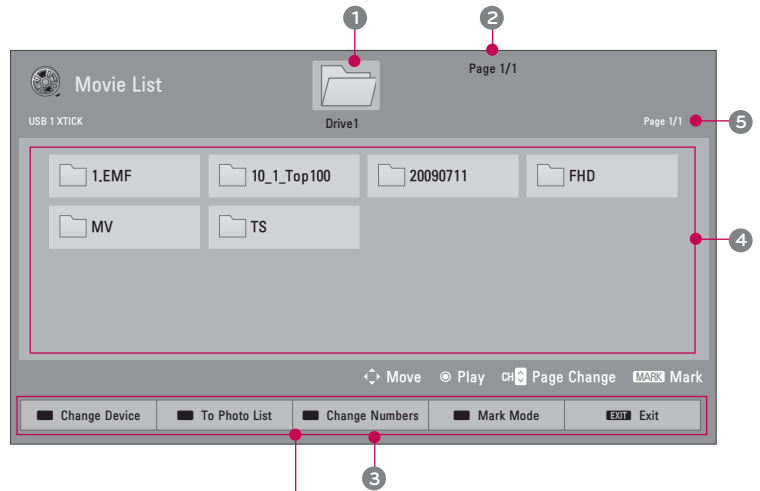
# MY MEDIA

## Screen Components

You can also adjust **USB** in the **INPUT** menu.

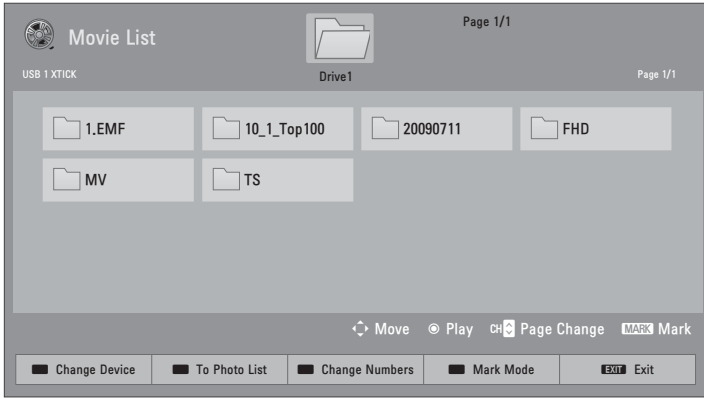


- ① Moves to upper level folder
- ② Current page/Total pages
- ③ Corresponding buttons on the remote control
- ④ Contents under the folder focused on ①
- ⑤ Current page/ total pages of contents under the folder focused on ①



	Changed device.
	Converted to <b>Photo List</b> .
	<b>Change Numbers</b> : A method to view in 5 large photos or simple list.
	Enter to <b>Mark Mode</b> .
	Return to TV viewing.
	Press the <b>ENERGY SAVING</b> button repeatedly to increase the brightness of your screen (Refer to p. ?).

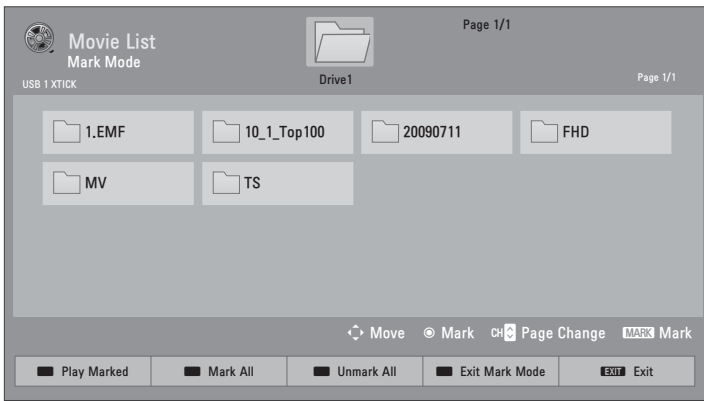
## Movie Selection



- 1 Select the target folder or drive.
- 2 Select the desired movie title.
- 3 Play the movie file.

- Use the CH (▲ ▼) button to navigation in the [movie page](#).
- When one or more movie files are marked, the marked movies will be played in sequence.

## Mark Mode



- 1 Select the target folder or drive.
- 2 Select the desired movie title.
- 3 Mark your desired movie file.
- 4 Play the marked movie file. It displays the current movie status progress bar in the bottom of the screen.

<b>RED</b>	<b>Play Marked:</b> Play the selected file. Once a movie finishes playing, the next selected one will be played automatically.
<b>GREEN</b>	<b>Mark All:</b> Mark all files in the folder.
<b>YELLOW</b>	<b>Unmark All:</b> Deselect all marked movies.
<b>BLUE</b>	Enter or exit the Mark Mode.


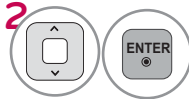
**NOTE**

▶ In case of files not supported, a message regarding non-supported file is displayed.

# MY MEDIA

## Using the Movie List Function












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

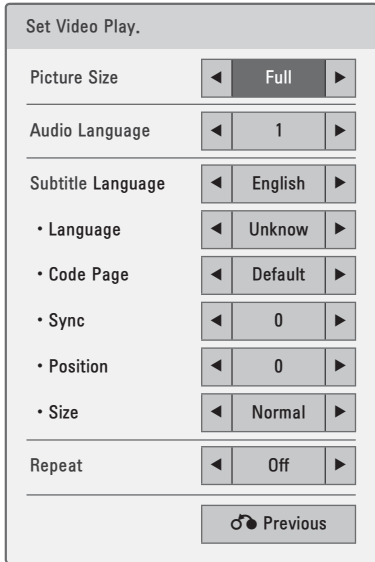
### NOTE

- ▶ Option values changed in Movie List does not affect Photo List and Music List.
- ▶ Option value changed in Photo List and Music List are changed likewise in Photo List and Music List excluding Movie List.

## Using the remote control

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

## Set Video Play menu option



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

2 Make appropriate adjustments.

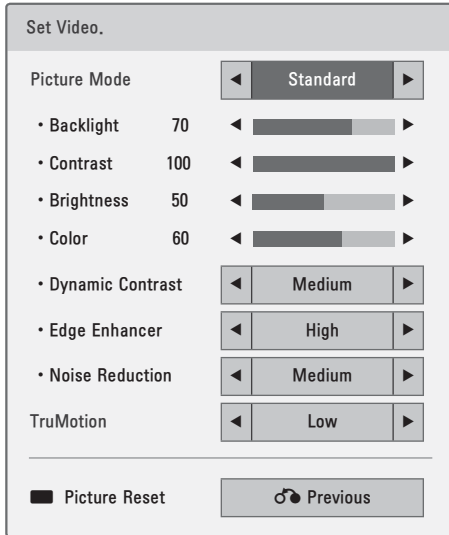
### Code Page

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

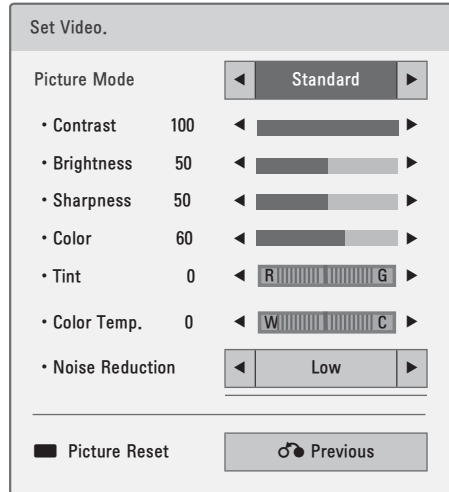
- **Picture Size:** Selects your desired picture format during movie play.
- **Audio Language:** Changes the Language Group of the audio during movie play.
- **Subtitle Language:** The subtitles can be turned on or off. If there are two or more subtitles, you can select one of them.
- **Language:** ?
- **Sync:** When the video is not synchronized with the captions, it can be adjusted by 0.5 second.
- **Position:** Move the location of the subtitle.
- **Size:** ?
- **Repeat:** Turn on/off repeat function of movie playback. When turned on, the file within the folder will be played back repeatedly.

## Set Video menu option

For LCD TV

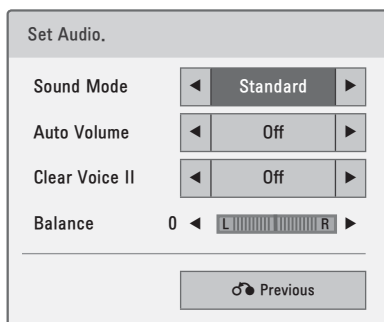


For Plasma TV



- 1 Select **Picture Mode** or **TruMotion**.
- 2 Make appropriate adjustments.  
(Refer to p. ?)
- Initialize the adjusted picture value.

## Set Audio menu option



- 1 Select **Sound Mode**, **Auto Volume**, **Clear Voice II** or **Balance**.
- 2 Make appropriate adjustments.  
(Refer to p. ?)

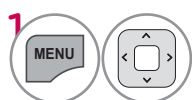
# PHOTO LIST

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

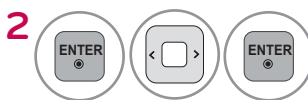
## Supported photo file: \*.JPG

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

## Screen Components

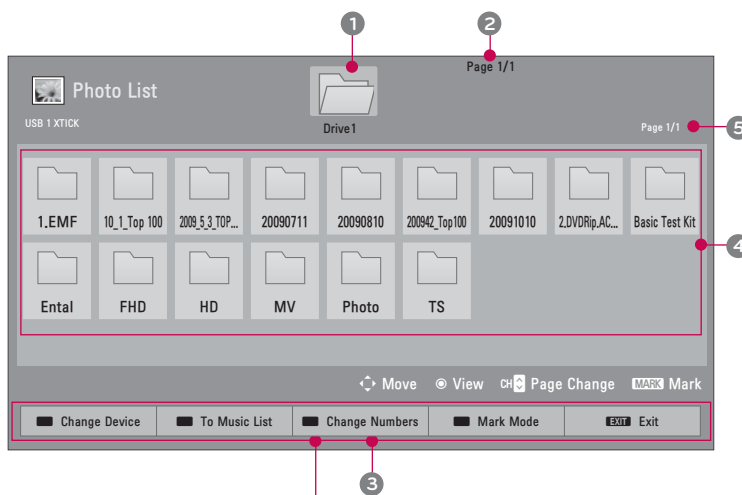


Select **MY MEDIA**.



Select **Photo List**.

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

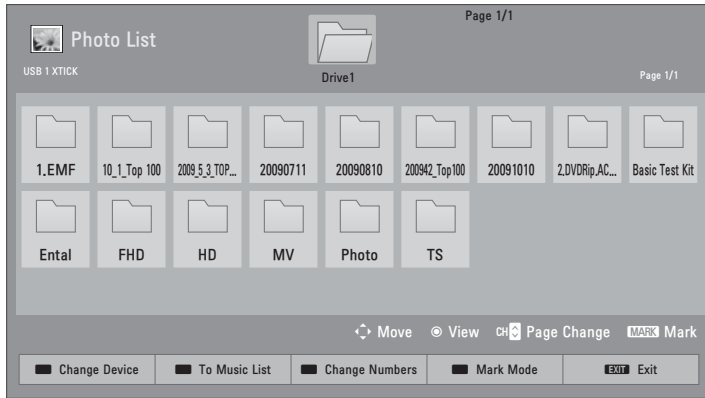






	Changed device.
	Converted to <b>Music List</b> .
	<b>Change Numbers:</b> A method to view in 5 large photos or simple list.
	Enter to <b>Mark Mode</b> .
	Return to TV viewing.
	Press the <b>ENERGY SAVING</b> button repeatedly to increase the brightness of your screen (Refer to p. ?).




# MY MEDIA

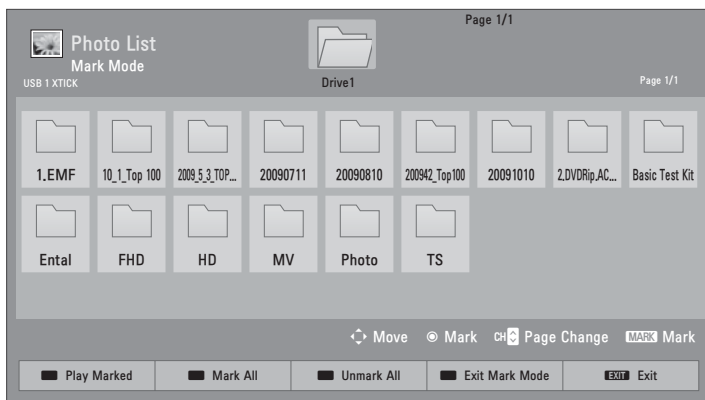
## Photo Selection












- 1  Select the target folder or drive.
- 2   Select the desired photos.
- 3  Photo files are displayed.

- Use the **CH** () button to navigation in the photo page.
- When one or more photos are marked, you can view individual photos or a slide show of the marked photos. If no photos are marked, you can view all photos individually or all photos in the folder in a slide show.

## Mark Mode

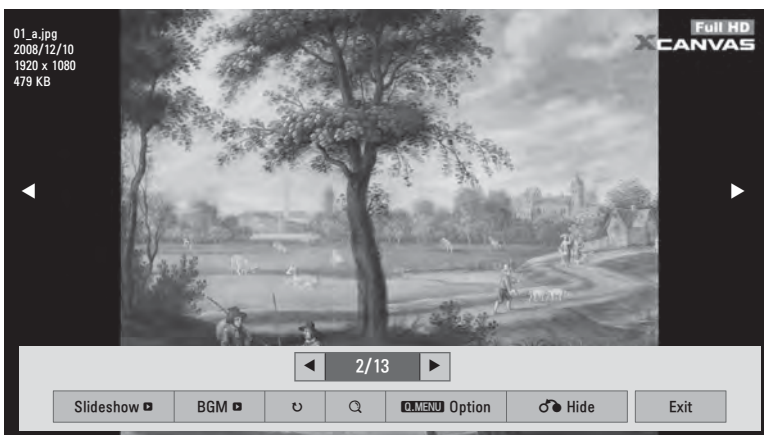
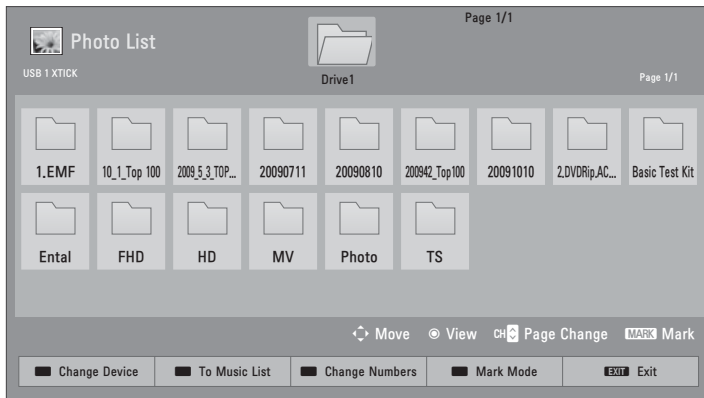


- 1  Select the target folder or drive.
- 2   Select the desired photo files.
- 3  Mark your desired photo file.
- 4  View the marked photo file.





	<b>View Marked:</b> Display the selected photo.
	<b>Mark All:</b> Mark all photos on the screen.
	<b>Unmark All:</b> Deselect all marked photos.
	Enter or exit the Mark Mode.

## How to view photo

Detailed operations are available on full-sized photo view screen.

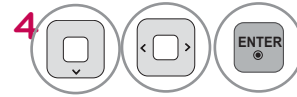
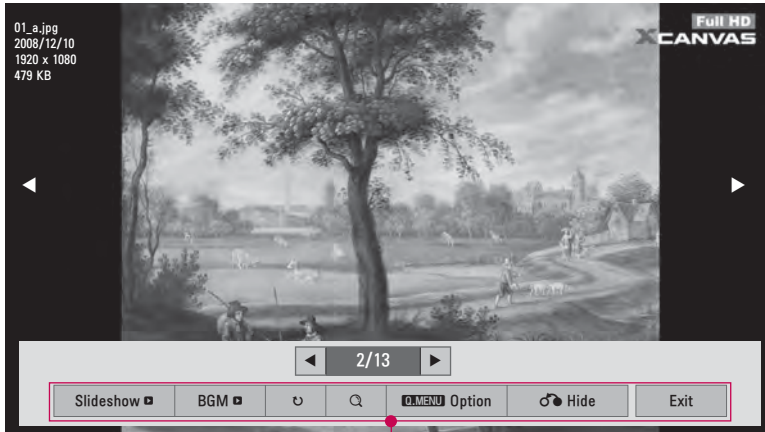


The aspect ratio of a photo may change the size of the photo displayed on the screen in full size.

-  Select the target folder or drive.
-   Select the desired photos.
-  The selected photo is displayed in full size.

■ Use the **CH** (^ v) button to navigation in the photo page.

# MY MEDIA

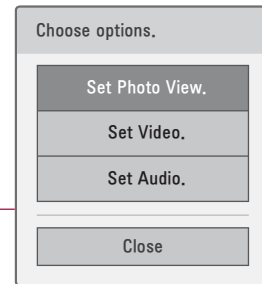
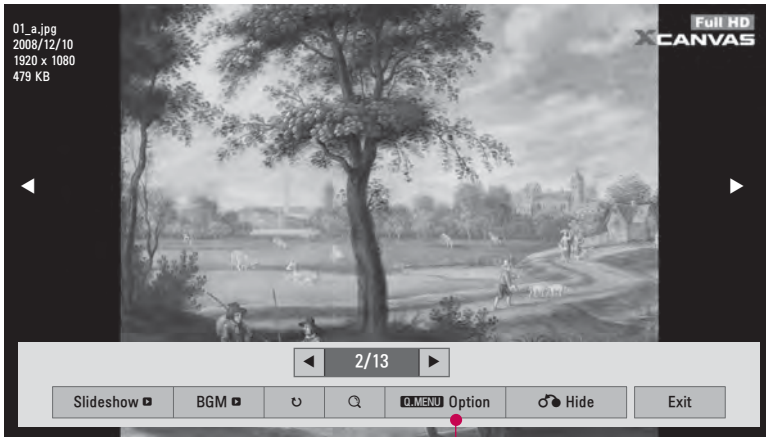


Select the **Slideshow**,  
**BGM**, **⤵ (Rotate)**,  
**🔍 (Zoom In)**, **Option**, or **Hide**.



- Use **< >** button to select the previous or next photo.

- ▶ **Slideshow**: Selected photos are displayed during the slide show. If no photo is selected, all photos in the current folder are displayed during slide show.
  - Set the time interval of the slide show in **Option-Set Photo View** menu.
  - You can adjust **Option** by using the **Q.MENU** button on the remote control.
- ▶ **BGM (Background Music)**: Listen to music while viewing photos in full size.
  - Set the BGM device and album in in **Option-Set Photo View** menu.
  - You can adjust **Option** by using the **Q.MENU** button on the remote control.
- ▶ **⤵ (Rotate)** : Rotate photos.
  - Rotates the photo 90°, 180°, 270°, 360° clockwise.
  - Photo cannot be rotated if its width is greater than the available supported resolution height.
- ▶ **🔍 (Zoom In)**: View the photo by zoom in 2, 4 times [by using Blue button](#).
- ▶ **Option** : Set values for **Slide Speed** and **BGM**.
  - You cannot change **BGM** while BGM is playing.
- ▶ **Hide** : Hide the menu on the full-sized screen.
  - To see the menu again on the full-sized screen, press **ENTER** button to display.
- ▶ **Exit** : Move to the previous menu screen.

## Using the Photo List Function



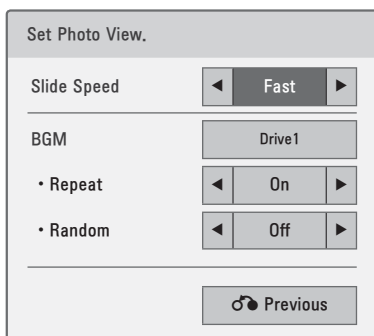
1  Show the **Option** menu.

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


### NOTE

- ▶ Option values changed in Photo List does not affect Movie List and Music List.
- ▶ Option value changed in Photo List and Music List are changed likewise in Photo List and Music List excluding Movie List.

## Set Photo View menu option

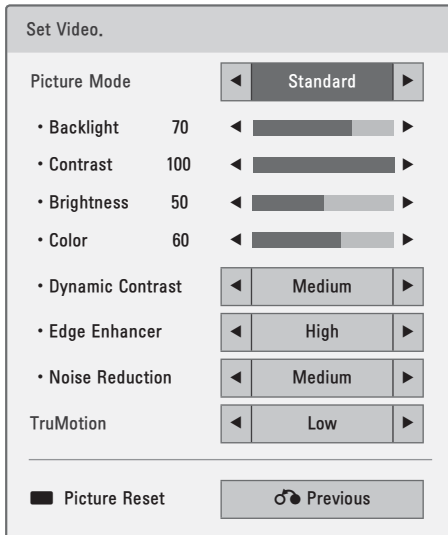


1  Select **Slide Speed** or **BGM**.

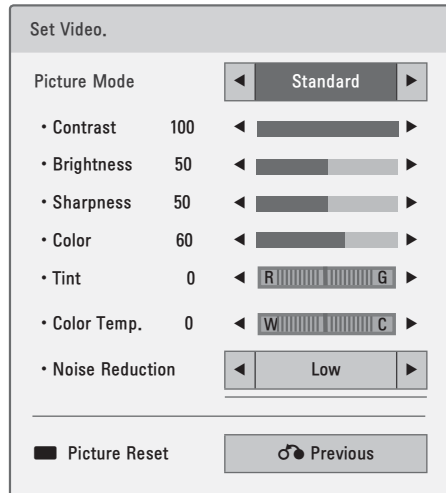
2  Make appropriate adjustments.  
(Refer to p. ?)

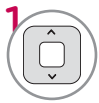


## Set Video menu option

For LCD TV

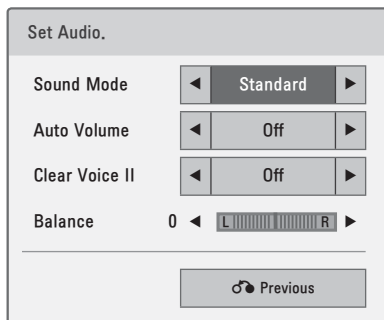




For Plasma TV



- 1  Select **Picture Mode** or **TruMotion**.
- 2  Make appropriate adjustments.  
(Refer to p. ?)
-  Initialize the adjusted picture value.

## Set Audio menu option



- 1  Select **Sound Mode**, **Auto Volume**, **Clear Voice II** or **Balance**.
- 2  Make appropriate adjustments.  
(Refer to p. ?)

# MUSIC LIST

Purchased music files(\*.MP3) may contain copyright restrictions. Playback of these files may not be supported by this model.

The On Screen Display may be different from your TV. Images are an example to assist with the TV operation.

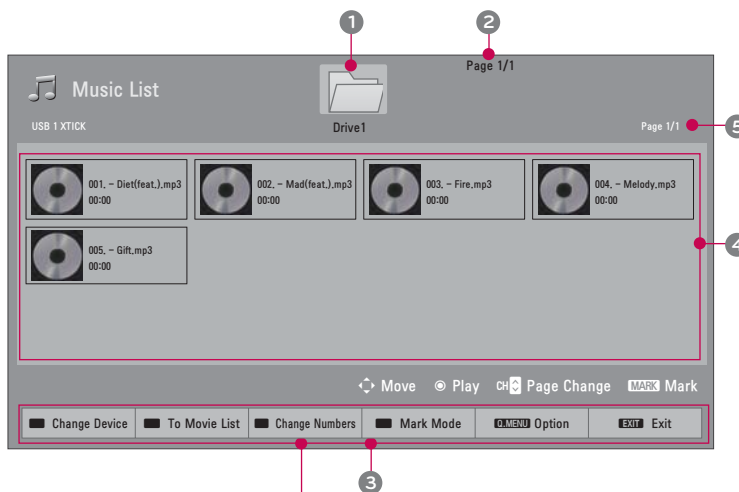
MUSIC (\*.MP3) supporting file  
 Bit rate 32 ~ 320

- Sampling rate MPEG1 Layer3 : 32kHz, 44.1kHz, 48kHz
- Sampling rate MPEG2 Layer3 : 16kHz, 22.05kHz, 24kHz
- Sampling rate MPEG2.5 Layer3 : 8kHz, 11.025kHz, 12kHz

## Screen Components



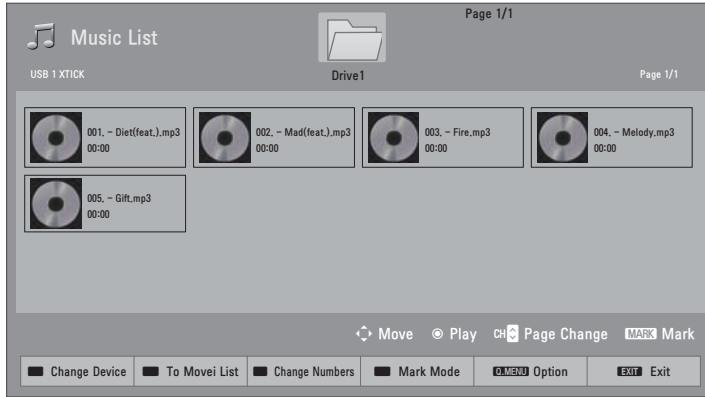
- 1 Preview: If any album jacket for the file (Album Art Image) exists, this jacket is displayed.
- 2 Moves to upper level folder
- 3 Current page/Total pages
- 4 Corresponding buttons on the remote control
- 5 Contents under the folder focused on 1
- 6 Current page/total pages of contents under the folder focused on 1







<b>RED</b>	Changed device.
<b>GREEN</b>	Converted to <b>Movie List</b> .
<b>YELLOW</b>	<b>Change Numbers:</b> A method to view in 5 large photos or simple list.
<b>BLUE</b>	Enter to <b>Mark Mode</b> .
<b>EXIT</b>	Return to TV viewing.
<b>ENERGY SAVING</b>	Press the <b>ENERGY SAVING</b> button repeatedly to increase the brightness of your screen (Refer to p. ?).

# MY MEDIA

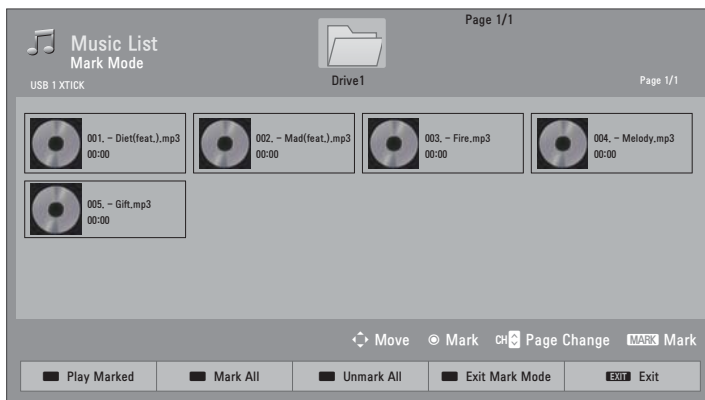
## Music Selection












- 1  Select the target folder or drive.
- 2   Select the desired music title.
- 3  Music files are played.

- Use the CH (^ v) button to navigation in the [movie page](#).
- When one or more movie files are marked, the marked movies will be played in sequence.

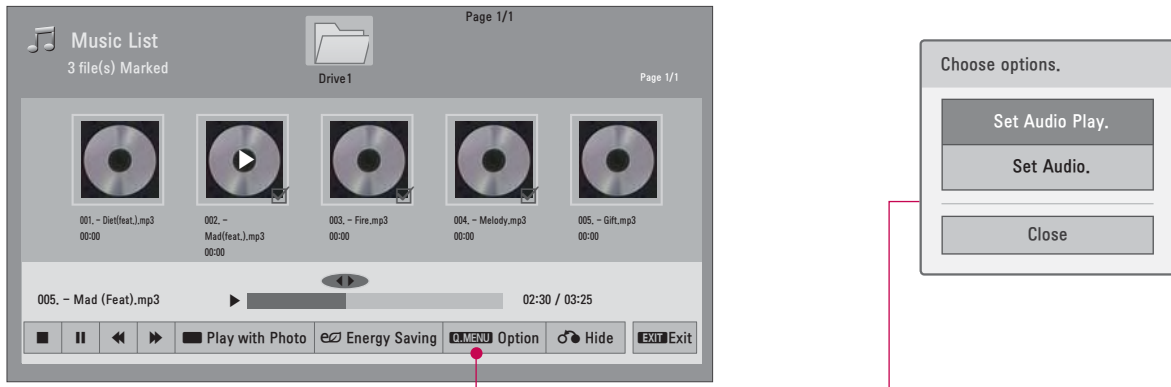
## Mark Mode



- 1  Select the target folder or drive.
- 2   Select the desired movie title.
- 3  Mark your desired music file.
- 4  [Play the marked music file.](#)

	<b>Play Marked:</b> Play the selected songs. Once a song finishes playing, the next selected one will be played automatically.
	<b>Mark All:</b> Mark all songs in the folder.
	<b>Unmark All:</b> Deselect all marked song.
	Enter or exit the Mark Mode.

## Using the Music List Function



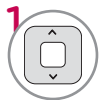
- 1 Show the **Option** menu.
- 2 Select **Set Audio Play** or **Set Audio**.

## Using the remote control

	Stop the song.
	Return to normal playback.
	Paused the song.
	Select the previous or next song.
	<b>Play with Photo:</b> Start playing the selected songs and then move to the Photo List.
	Press the <b>ENERGY SAVING</b> button repeatedly to increase the brightness of your screen (Refer to p. ?).
	A cursor indicating the position can be played on the screen.
	Move to the previous menu screen.



## Set Audio Play menu option

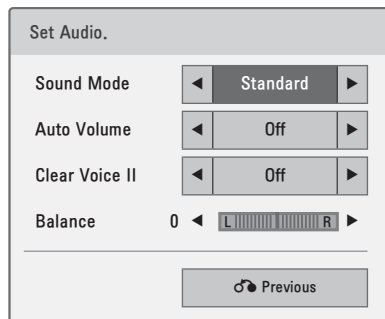


1 Select **Repeat** or **Random**.



2 Make appropriate adjustments.  
(Refer to p. ?)

## Set Audio menu option



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

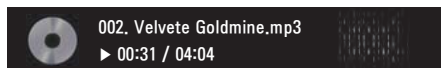


2 Make appropriate adjustments.  
(Refer to p. ?)

■ If you don't press any button for a while during the playing, the play information box (as shown in the below) will float as a screen saver.

■ **The 'Screen Saver'?**

Screen saver is to prevent screen pixel damage due to an fixed mage remaining on the screen for a extended period of time

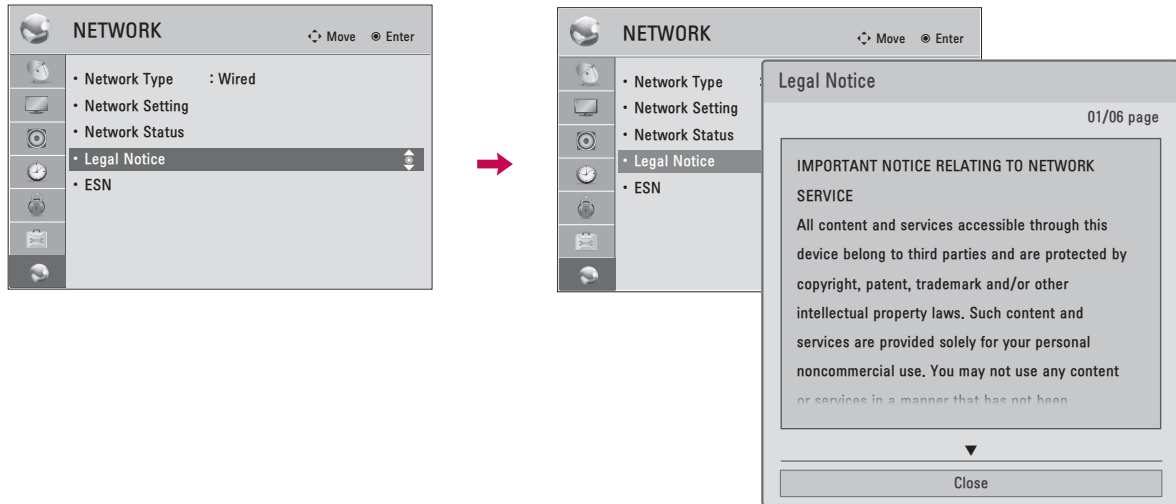


**NOTE**








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

# NETWORK

## LEGAL NOTICE



NETWORK

-   Select **NETWORK**.
-   Select **Legal Notice**.
-   Check Legal notice.
-  Return to TV viewing.

## IMPORTANT NOTICE RELATING TO NETWORK SERVICE

All content and services accessible through this device belong to third parties and are protected by copyright, patent, trademark and/or other intellectual property laws. Such content and services are provided solely for your personal noncommercial use. You may not use any content or services in a manner that has not been authorized by the content owner or service provider. Without limiting the foregoing, unless expressly authorized by the applicable content owner or service provider, you may not copy, upload, post, transmit, translate, sell, modify, create derivative works, or distribute in any manner or medium any content or services displayed through this device.

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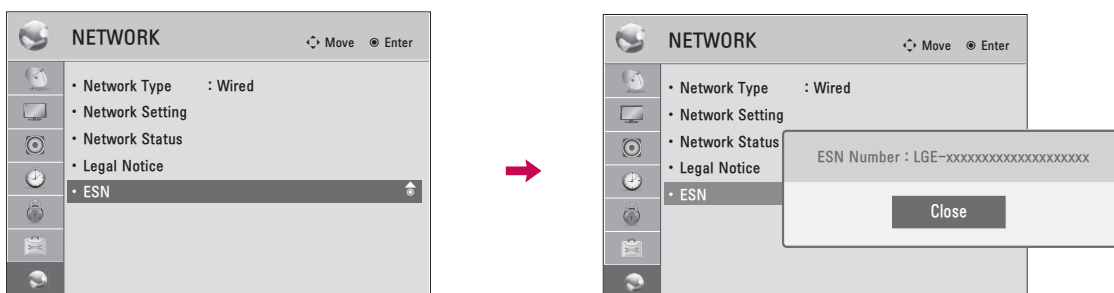
# NETWORK


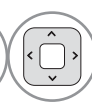

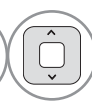

## NETFLIX ESN (ELECTRONIC SERIAL NUMBER)

We provide you the Netflix ESN (Electronic Serial Number) that allows you to watch videos using the Netflix website.

For more information, please visit: [www.netflix.com](http://www.netflix.com)

NETWORK



- 1   Select **NETWORK**.
- 2   Select **ESN**.
- 3  See the ESN serial number.

# NETCAST

## NETCAST MENU

These services are provided by the Content Provider.

All the services are dependent on appropriate Content Provider.

Please contact web site for detail information (But, some content manual maybe not provide depending on Content Provider).



1   Select **NETCAST** menu option.

2  Enjoy the **Yahoo!**, **NETFLIX**, **Vudu**, **Picasa**, or **YouTube**.

### ■ **Yahoo!**

Yahoo! TV Widgets give you the best of the Internet in perfect harmony with the simplicity and reliability of your TV. TV Widgets deliver a Cinematic internet™ experience by converting your favorite web services for viewing on the TV.

### ■ **Netflix**

You can instantly watch movies (quite a few new releases) & TV episodes from Netflix streamed over the internet to your TV.

To become a Netflix member visit: [www.netflix.com/LG](http://www.netflix.com/LG)

**Note that this service is provided by the Content Provider, Netflix. It is dependent on Netflix to provide the data.**

### ■ **Vudu**

In order to make rental/purchase transactions on the Vudu service, a user must create an account on [vudu.com](http://vudu.com).

That account is linked to a specific device, via a process called "activation". It is possible to have multiple devices associated with a single Vudu account.

**Note that this service is provided by the Content Provider, Vudu. It is dependent on Vudu to provide the data.**

### ■ **Picasa?**

### ■ **YouTube?**

## YAHOO! TV WIDGETS

You can enjoy the best of the Internet in perfect harmony with the simplicity and reliability of your TV. Yahoo! TV Widgets provide an integrated Internet TV experience powered by the Yahoo!® Connected TV platform. You can monitor financial stocks, share photos with friends and family, track news and weather and much more, all through the Yahoo! TV Widgets service on your TV.

**Note that these services are provided by the Content Provider, using Yahoo! Widget Platform provided by Yahoo!. All the services are dependent on appropriate Content Provider. Please check about page of each widgets for Terms of service.**

**Note If you have any question or need any help for the widgets which is not covered in this manual, please contact web site for further help which shall be listed in about page of each widget, or Yahoo! help site <http://connectedtv.yahoo.com/help>.**

### What is a TV Widget?













A TV Widget is an Internet application designed to run on your TV.

### What is a Snippet?

A Snippet is a shortcut used to open a TV Widget, as a dynamic bookmark to TV Widget content.

### Using the Remote Control

When Yahoo! TV Widgets are displayed, you can use the following remote control buttons.

	Begin using Yahoo! TV Widgets. Press it again to go back to just watching TV.		Select the focused item.
	Highlight and focus on buttons in the Yahoo! TV Widgets user interface.		Go to the TV Menu.
	Move the focus selection up.		Close the open widget and return to watching TV.
	Move the focus selection down.		Change the open widget's settings.
	Move the focus selection to the left.		Add, move, or delete your snippets.
	Move the focus selection to the right.		Resize the video to fit onscreen, or to make it fullscreen.

### Getting Started Out of the Box

Once your television is powered up and your network is operational, the Yahoo! TV Widgets software guides you through its step-by-step on-screen wizard the first time you startup. These setup steps are designed to provide you with the information and settings you'll need to start using the Yahoo! TV Widgets user interface.

## Guided Setup



Activate Yahoo! TV Widgets. The first time you use Yahoo! TV Widgets the step-by-step wizard begins with the Welcome Screen.



1 Select Let's get started!. If you select Exit Setup now, this step will be resumed the next time you press WIDGETS.



2 Choosing your country allows the use of localized content.



Navigate to your location.



Select your country.



3 Accepting the Yahoo! Privacy Policy is required to use Yahoo! Widgets.



Select Ok, I accept.



4 Accepting Yahoo! Terms of Service is also required to use Yahoo! TV Widgets.



Select Ok, I accept.



5 Enter your name to setup your profile.



Select letters and spell your name.



Select Save this name and create your profile.



6 Test your network connection. After setup is completed, a tutorial on how to use Yahoo! TV Widgets will come up next.



Select Continue and review the tutorial. Select Exit setup to start using Yahoo! Widgets now.





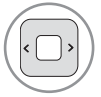
# NETCAST

## Using Yahoo! TV Widgets



Activate Yahoo! TV Widgets.

- The horizontal list at the bottom of your TV screen is called "**the dock**".
- The items in this list are called "**snippets**".
- A snippet is a shortcut which opens a TV Widget.



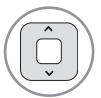
Move between snippets.

- Focus is located in the leftmost region (high-lighted in dark red).
- The dock scrolls snippets under this focal point.



Open the **Sidebar** when the TV Widget snippet is in focus.

- The Home button including the main logo is at the top of the sidebar.



Navigate a menu item.

- The currently focused button is the one high-lighted in dark red.



Select the focused button.



The sidebar's bottom toolbar includes four color-coded buttons.



<b>RED</b>	Close the sidebar and return to watching TV.	<b>YELLOW</b>	Add or delete a snippet.
<b>GREEN</b>	Change the widget's settings.	<b>BLUE</b>	Resize video to fit onscreen, or to make it fullscreen.

## Using the Profile Widget

- The **Profile Widget** configures your user profile.
- You can set up multiple profiles for multiple users.
- Each profile maintains its own list of TV Widgets.
- The **Switch Profile** menu allows you to switch to a different user profile.
- The **Profile Settings** menu allows you to customize your profile, create a profile PIN, or limit the installation of widgets.
- The **System Settings** menu allows you to change your **Location**, **Repeat the Tutorial**, and **Restore Factory Settings**.
- **Restore Factory Settings** will erase all profiles and widgets installed by users, and restore the original configuration. (See also **NetCast** → **Options** → **Reset Yahoo! Factory Settings**)
- The **Administrative Controls** menu allows you to set the **Screen Saver** timeout, create the **Owner PIN**, and to **Create a Profile**.
- The **Sign in to Yahoo!** menu allows you to personalize your experience using your Yahoo! ID.
- If you don't have a Yahoo! ID yet, please visit <http://www.yahoo.com> to create one.



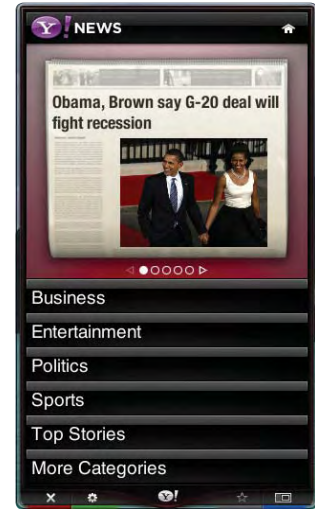
## Using the Widget Gallery

- The **Widget Gallery** allows you to browse and discover new TV Widgets.
- The featured TV Widgets are highlighted in the display case at the top of the sidebar.
- You can also browse available TV Widgets by category.
- To install a widget, select **Add Widget to My Profile** and press the ENTER button.
- The **Owner PIN** is needed to install widgets for profiles that have been protected through the **Limit Profile** indicator under **Profile Widget** → **Profile Settings**.
- Go to the **Profile Widget** → **Administrative Controls** menu to set or change the **Owner PIN**.



## Using the Yahoo! News Widget

- The **Yahoo! News Widget** provides the latest headline news for business, entertainment, politics, sports, top stories, and many other categories.
- Select a category, press **ENTER**.
- Select a headline within the category, press **ENTER**.
- View the dynamically updated news summary for the selected headline.



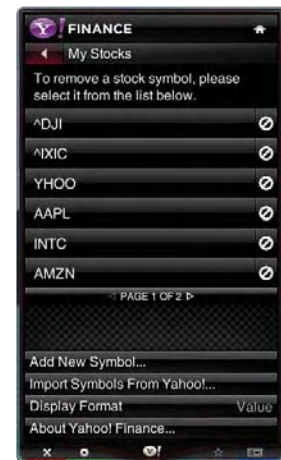
## Using the Yahoo! Weather Widget

- The **Yahoo! Weather Widget** provides updates on your local and favorite weather locations with content that dynamically changes with weather conditions.
- Press the **GREEN** button to display the **Settings** menu.
- From the **Settings** menu you can add or remove a city for which you want to view weather information.
  - **Add a New City** by entering the name of the city. Once the search results are displayed, select the city you want and press **ENTER** button.
  - **Delete a City** by selecting the city you want to delete from the city list. Press **ENTER** button and confirm the deletion.
  - Select the **Display Units As** button to change the temperature indication mode to **Imperial** or **Metric**. **Imperial** will show temperatures in Fahrenheit and **Metric** will use Celsius.
- To create a snippet for a favorite city:
  - Select the city from the home page and view the detailed weather information.
  - Press the **YELLOW** button.
  - Select the **Add Snippet** button and press **ENTER** to add the city as a snippet.
- To delete a snippet for a city:
  - Navigate to the snippet and press **ENTER** button to start the widget. The detailed page for the snippet's city will be displayed.
  - Press the **YELLOW** button.
  - Select the **Delete Snippet** button and press **ENTER** button to remove the snippet.



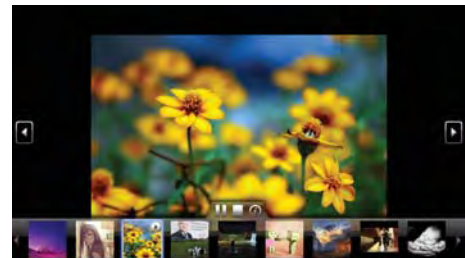
## Using the Yahoo! Finance Widget

- View stock information and the latest stock news with the Yahoo! Finance Widget.
- Press the **GREEN** button to set up your stocks.
  - Use the **Add New Symbol** menu to enter the name of a new stock.
  - Select the stock you want to add from the search results and select the **Add Symbol** button and press **ENTER** button.
  - The selected stock is added to the **My Stocks** list.
  - The **Import Symbols From Yahoo!** menu retrieves the stocks from your Yahoo! Finance portfolio.
  - The **Merge Symbols** button merges the symbols in the Yahoo! Finance Widget with the symbols from your portfolio.
  - The **Replace Symbols** button deletes the symbols in the Yahoo! Finance Widget and replaces them with the symbols from your portfolio.
  - The **Display Format** button changes the stock-price fluctuation transition to **Value** or **Percentage**.
- To create a snippet for a favorite stock:
  - Select the stock symbol from the home page and view the detailed finance information.
  - Press the **YELLOW** button.
  - Select the **Add Snippet** button and press **ENTER** button to add the stock as a snippet.
- To delete a snippet:
  - Navigate to the snippet and press **ENTER** button to start widget. The detailed page for the snippet's stock will be displayed.
  - Press the **YELLOW** button.
  - Select the **Delete Snippet** button and press **ENTER** button to remove the snippet.



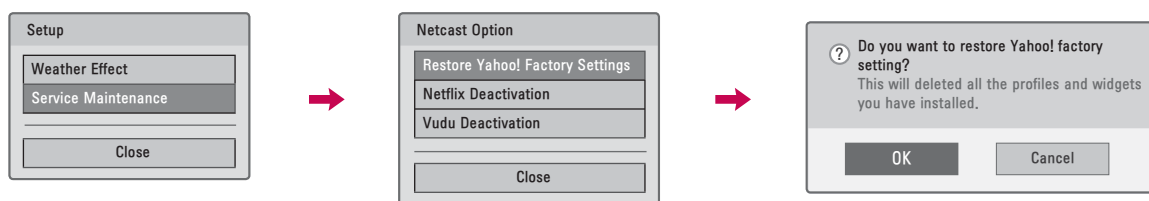
## Using the flickr Widget



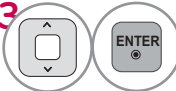
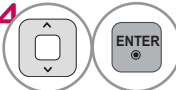
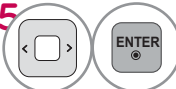
- The **flickr Widget** provides a television-viewing experience while watching slideshows of family and friends' photos.
- Personalize the **flickr Widget** by logging in with your Yahoo! ID. Refer to **Using the Profile Widget** for instructions.
- The **Your Photos** menu shows photos you have registered with the flickr website.
- The **Your Sets** menu allows you to view photos you have classified in flickr.
- The **Explore** menu allows you to explore photos featured by the flickr website.
- The **Mark as Favorite** moves photos to your **Favorite Photos** set.
- The **Favorite Photos** menu allows you to see the photos you have classified as favorites.
- The **Your Contacts** menu allows you to see updates from family and friends.
- The **Your Groups** menu allows you to select your favorite groups from the flickr website <http://www.flickr.com> to share and enjoy photos with the flickr community of users.
- To view photos in a slideshow:
  - Select a thumbnail of a photo and press **ENTER** button to view the photo's details.
  - Select **Start Slideshow** and press **ENTER** button.
- To control the slideshow display:
  - Press **ENTER** button during a slideshow.
  - The thumbnails of photos are displayed on the bottom of the screen.
  - When the slideshow control is displayed, you can **Pause**, **Play**, and **Stop** the slideshow.
  - If you select the **INFO** button and press **ENTER** button, you can view details for the selected photo.
- To configure the **Settings**, press the **GREEN** button.
  - The **Time Per Slide** button controls the speed of the slideshow.
  - The **Repeat** button will restart the slideshow at the beginning after the last photo is shown.



## Restore Yahoo! Factory Settings

Restoring Yahoo! Factory Settings will delete all of your profiles and installed widgets.



-  Display **NetCast** menu.
-  Select **Setup** option.
-  Select **Service Maintenance**.
-  Select **Restore Yahoo! Factory Settings**.
-  Select **Yes** to restore Yahoo! factory settings.  
This TV will restore Yahoo! factory settings.

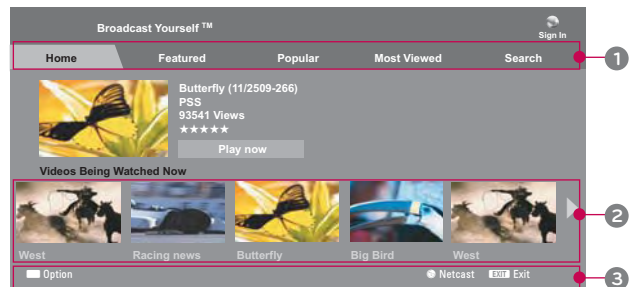
# NETCAST



YouTube is a video sharing website where users can upload, view, and share video clips.

## YouTube Screen Components

- 1 YouTube menu
- 2 Videos list
- 3 Period options: If you select the **Most Viewed** or **Top Rated** in the YouTube menu, the period options appear at the bottom of the screen



## YouTube menu

**Featured:** The featured videos list will be displayed.

**Popular:** The best rated videos list from YouTube server will be displayed.

**Most Viewed:** The most viewed videos list will be displayed.

**Search:** The keyboard menu will be displayed.

**History:** The videos list that you previously played will be displayed. Maximum of 20 videos can be stored.

**Favorites:** In sign-in status, this menu will be displayed the videos list that is arranged in the YouTube server with your account (Some videos may not appear on the **Favorites** list, even if the videos are arranged in the server). [In sign-out status, you can add the video to Favorites using RED button on the remote control.](#)

**Sign in (Sign Out):** Displays the keyboard menu to sign in or returns to the sign-out status.

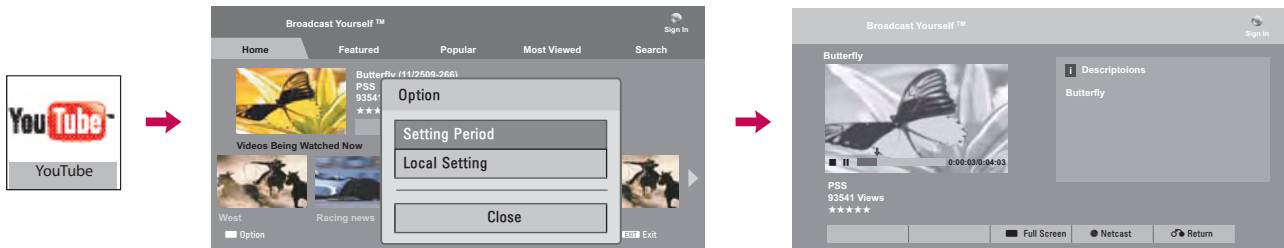
### NOTE

- ▶ The videos list searched from the TV may differ with the list searched from a web browser on PC.
- ▶ The settings of this TV do not affect the YouTube's playback quality.
- ▶ The playback of YouTube videos may be paused, stopped or buffering occurring often depending on your broadband speed.

We recommend a minimum connection speed of 1.5 Mbps. For the best playback condition, a connection speed of 4.0 Mbps is required. Sometimes your broadband speed varies based on your ISP's network conditions. Contact your ISP if you have problems maintaining a fast connection that is reliable, or if you want to increase your connection speed. Many ISPs offer a variety of broadband speed options.

## YouTube playback

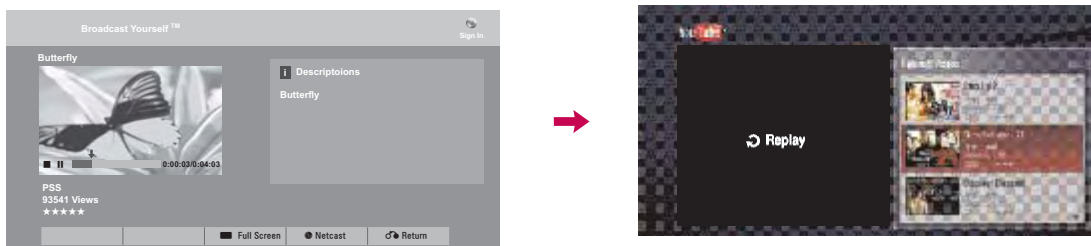
While watching a video from YouTube via TV, you can control the YouTube video playback. You can use the buttons on the remote to pause and resume viewing.



- 1 Select **YouTube**.
  - 2 Select the desired YouTube menu.
  - 3 Update the video list for the selected YouTube menu.
  - 4 Select the desired video.
  - 5 Starts playback the video with content detail.
- Return to previous menu.

	Stops the video and displays related videos list.
	Pause the video while it is playing.
	Toggle between playback in full screen and playback screen with content detail.
	Return to Netcast menu.
	Skip the playback forward or backward.
	Return to TV viewing.

## When the palyback ends or stops



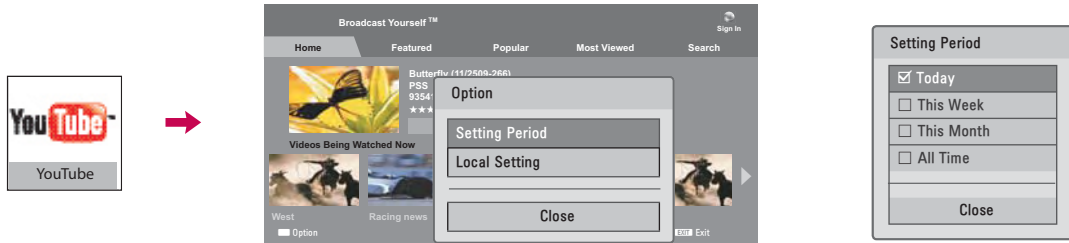
- 1 Select the current video or a video from the related videos list.
- 2 Play the selected video.



# NETCAST

## Setting Period

In **Popular** and **Most View** menu, you can this menu.



1 Select **YouTube**.

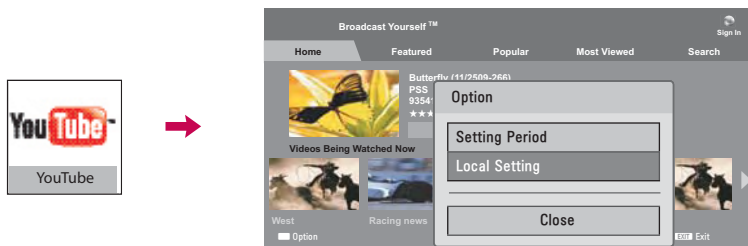
2 Select **Option** menu.

3 Select **Setting Period**.

4 Select the desired period option.

## Local Setting

Choose which country's videos you would like to view. The countries listed on the Local Setting menu may differ with those listed on the YouTube web site.



1 Select **YouTube**.

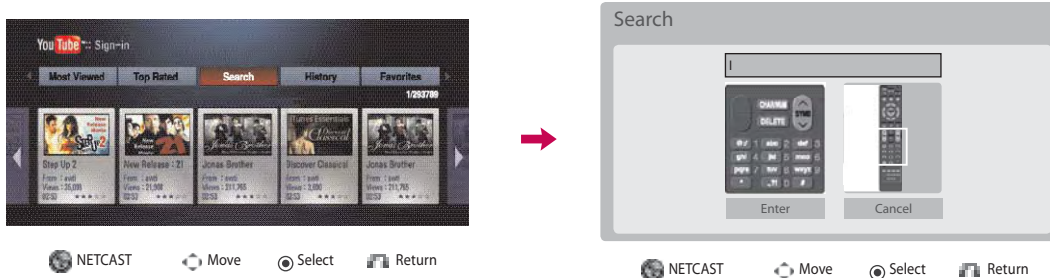
2 Select **Option** menu.

3 Select **Local Setting**.

4 Select the desired country.

## Searching videos

You can search for videos by entering search words of up to 128 characters.



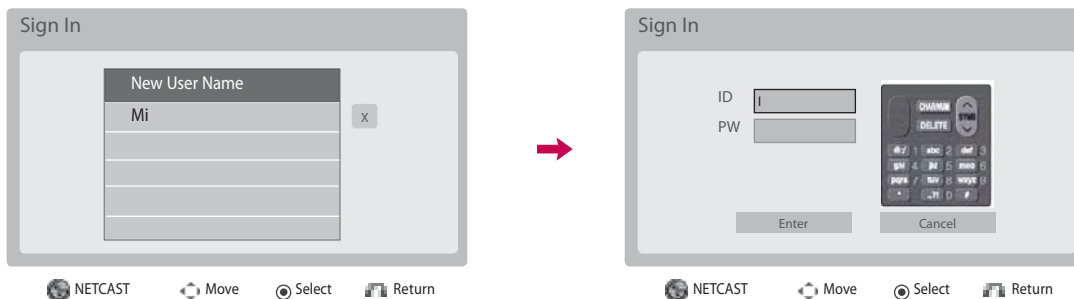
1 Select **Search**. It displays the keyboard menu.

2 Select a character. When you enter a character, maximum of 5 suggestion words will be displayed.

3 Select **ENTER** to display the related videos list when you finish entering the search

## Sign in with your YouTube account

To watch videos from your **Favorites** video list on the YouTube server with your account, you need to sign in with your YouTube account.



1 Select **Sign In**.

2 Select **New User Name**. It displays the keyboard menu for entering a new ID and password.

3 Select a character.

4 Select **ENTER** to confirm your selection on the keyboard menu. If you want to sign out, select the **Sign Out** from the YouTube menu and press ENTER.

n This TV can automatically store up to 5 IDs which were previously signed-in. The IDs list appears when you select the **Sign In**. Select a stored ID on the list and press ENTER to display the keyboard menu with the selected ID is entered. You will only need to enter the password to sign in.

Dynamic Contrast	<ul style="list-style-type: none"> <li>Adjusts the contrast to keep it at the best level according to the brightness of the screen. The picture is improved by making bright parts brighter and dark parts darker.</li> </ul>
Dynamic Color	<ul style="list-style-type: none"> <li>Adjusts screen colors so that they look livelier, richer and clearer. This feature enhances hue, saturation and luminance so that red, blue, green and white look more vivid.</li> </ul>
Skin Color (For LCD TV)	<ul style="list-style-type: none"> <li>Expresses natural skin by detecting skin area of the video.</li> </ul>
Noise Reduction	<ul style="list-style-type: none"> <li>Reduces screen noise without compromising video quality.</li> </ul>
Digital Noise Reduction	<ul style="list-style-type: none"> <li>Removes noise regarding MPEG compressed video.</li> </ul>
Gamma	<ul style="list-style-type: none"> <li>You can adjust brightness of dark area and middle gray level area of the picture.</li> </ul> <p>Low or 1.9 : Make dark and middle gray level area of the picture brighter.          Medium or 2.2 : Express original picture levels.          High or 2.4: Make dark and middle gray level area of the picture darker.</p>
Black Level	<p>Low: The reflection of the screen gets darker.          High: The reflection of the screen gets brighter.</p> <ul style="list-style-type: none"> <li>Set black level of the screen to proper level.</li> <li>This function is available in the following modes: AV (NTSC-M), HDMI or Component.</li> </ul>
Clear White	<ul style="list-style-type: none"> <li>Preserve and maintain original values of Skin color.</li> </ul>
Eye Care (For LCD TV)	<ul style="list-style-type: none"> <li>Adjust the brightness of the screen to prevent the screen from being too bright. Dims extremely bright pictures.</li> <li>This feature is disabled in "Picture Mode-Vivid, Cinema, Intelligent Sensor (For LCD TV)".</li> </ul>
Real Cinema or Film Mode	<ul style="list-style-type: none"> <li>Makes video clips recorded in film look more natural by eliminating judder effect.</li> <li>DVD and Blu-ray movies are filmed at 24 frames per second (fps). With LG Real Cinema, every frame is consistently processed 5 times in 1/24 of a second producing 120 fps with TruMotion or 2 times in 1/24 of a second producing 48 fps without TruMotion, thus totally eliminating the judder effect.</li> </ul>
Color Gamut	<p><b>Advanced Control</b>          Standard: Displays standard set of colors.          Wide: Increase number of colors used.</p> <ul style="list-style-type: none"> <li>Maximize the utilization of color to increase color quality.</li> </ul> <p><b>Expert Control</b></p> <ul style="list-style-type: none"> <li>Displays color domain of signal in Expert Control.</li> </ul>

# PICTURE CONTROL

Edge Enhancer	<ul style="list-style-type: none"> <li>Show clearer and distinctive yet natural edges in of the video.</li> </ul>
xvYCC	<p><u>*This feature is not available for all models.</u></p> <ul style="list-style-type: none"> <li>This is the function to express richer color.</li> <li>This feature represents rich color as much as conventional video signal.</li> <li>This function is enabled in "<b>Picture mode - Cinema, Expert</b>" when xvYCC signal is inputted through HDMI.</li> </ul>
Color Filter	<ul style="list-style-type: none"> <li>This is the function to filter the specific colors of the video. You can use the RGB filter to set color saturation and hue accurately.</li> </ul>
Expert Pattern	<ul style="list-style-type: none"> <li>This is the pattern necessary for expert adjustment.</li> <li>This function is enabled in "<b>Picture mode - Expert</b>" when you watch DTV.</li> </ul>
Color Temperature	<ul style="list-style-type: none"> <li>Adjusts the overall color of the screen by changing the color of white.               <ol style="list-style-type: none"> <li>Method : 2 Points                   <ul style="list-style-type: none"> <li>Pattern: Inner, Outer</li> <li>Red/Green/Blue Contrast, Red/Green/Blue Brightness: The adjustment range is -50 - +50.</li> </ul> <p><b>LCD TV</b></p> </li> <li>Method : 10 Point IRE                   <ul style="list-style-type: none"> <li>Pattern: Inner, Outer</li> <li>IRE (Institute of Radio Engineers) is the unit to display the size of the video signal and can be set among 10, 20, 30 - 100. You can adjust Red, Green or Blue according to each setting.</li> <li>Luminance: This function displays calculated luminance value for 2.2 gamma. You can input luminance value you want at 100 IRE, than the target luminance value for 2.2 gamma is displayed at every 10 steps from 10 IRE to 90 IRE.</li> <li>Red/Green/Blue: The adjustment range is -50 - +50.</li> </ul> <p><b>Plasma TV</b></p> </li> </ol> </li> <li>Method : 20 Point IRE               <ul style="list-style-type: none"> <li>IRE (Institute of Radio Engineers) is the unit to display the size of the video signal and can be set among 5, 10, 15 - 100 Plasma TV. You can adjust Red, Green or Blue according to each setting.</li> <li>Red/Green/Blue: The adjustment range is -50 - +50.</li> </ul> </li> </ul>
Color Management System	<ul style="list-style-type: none"> <li>As the tool used by the experts to make adjustments by using the test patterns, this does not affect other colors but can be used to selectively adjust the 6 color areas (Red/Green/Blue/Cyan/Mgt/Yellow). Color difference may not be distinctive even when you make the adjustments for the general video.</li> <li>Adjusts Red/Green/Blue/Yellow/Cyan, Magenta.               <ul style="list-style-type: none"> <li>Red/Green/Blue/Yellow/Cyan, Magenta Color: The adjustment range is -30 - +30.</li> <li>Red/Green/Blue/Yellow/Cyan, Magenta Tint: The adjustment range is -30 - +30.</li> <li>This feature is disable in RGB-PC and HDMI-PC mode.</li> </ul> </li> </ul>
OPC	<p><u>*This feature is not available for all models.</u></p> <ul style="list-style-type: none"> <li>As the technology to reduce the power consumption while keeping the same brightness, this has the effect of reducing power consumption, improvement in contrast.</li> </ul>

# APPENDIX

## TROUBLESHOOTING

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

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

# APPENDIX

Audio Problems	
Picture OK & No sound	<ul style="list-style-type: none"> <li>Check to see if there is any object between the product and the remote control causing obstruction. Ensure you are pointing the remote control directly at the TV.</li> <li>Ensure that the batteries are installed with correct polarity (+ to +, - to -).</li> <li>Ensure that the correct remote operating mode is set: TV, VCR etc.</li> <li>Install new batteries.</li> </ul>
No output from one of the speakers	<ul style="list-style-type: none"> <li>Adjust Balance in menu option.</li> </ul>
Unusual sound from inside the product	<ul style="list-style-type: none"> <li>A change in ambient humidity or temperature may result in an unusual noise when the product is turned on or off and does not indicate a fault with the product.</li> </ul>
No sound when connecting HDMI/USB	<ul style="list-style-type: none"> <li>Check HDMI cable over version 1.3.</li> <li>Check USB cable over version 2.0. <small>This feature is not available for all models.</small></li> <li>Use normal MP3 file.</li> </ul>

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

Movie List Problems	
The file does not appear on the Movie List.	<ul style="list-style-type: none"> <li>Check whether the extension is supported.</li> </ul>
Message is displayed saying "This file is invalid" or the audio is working normally but the video is not working normally.	<ul style="list-style-type: none"> <li>Check whether the file is playing normally on a PC. (Check whether the file is damaged.)</li> <li>Check whether the resolution is supported.</li> <li>Check whether the video/audio codec is supported.</li> <li>Check whether the frame rate is supported.</li> </ul>
Message is displayed saying "Unsupported Audio" or the video is working normally but the audio is not working normally.	<ul style="list-style-type: none"> <li>Check whether the file is playing normally on a PC. (Check whether the file is damaged.)</li> <li>Check whether the audio codec is supported.</li> <li>Check whether the bit rate is supported.</li> <li>Check whether the sample rate is supported.</li> </ul>
Subtitle is not working.	<ul style="list-style-type: none"> <li>Check whether the file is playing normally on a PC. (Check whether the file is damaged.)</li> <li>Check whether the video file and subtitle file name are the same.</li> <li>Check whether the video file and subtitle file are located in the same folder.</li> <li>Check whether the subtitle file is supported.</li> <li>Check whether the language is supported. (When you open the subtitle file in Memo Pad, you can check the language of the subtitle file.)</li> </ul>

Yahoo! TV Widgets Problems	
<p>Misc.-Caption, Language displayed within Widget</p> <p>Did the customer change Menu language but Widget did not change its language.</p>	<ul style="list-style-type: none"> <li>Some Widget does not fully support as much as TV Menu.</li> <li>The help site for individual widget can be found settings panel of each widget by pressing GREEN button on your remote after open that widget from the Dock.</li> </ul>

# APPENDIX

Yahoo! TV Widgets Problems		
Failed to launch Yahoo! TV Widgets	Was the customer watching HDMI input?	<ul style="list-style-type: none"> <li>■ If customer uses HDMI with Simplink is ON, then WIDGETS button blocked.</li> <li>■ To use Yahoo! TV Widget watching HDMI input, turn off "Simplink-on" in the OPTION menu. Or change other Input and press the WIDGETS button.</li> </ul>
	Was the customer watching My Media?	<ul style="list-style-type: none"> <li>■ If customer uses MY MEDIA, then WIDGETS button blocked.</li> <li>■ Exit MY MEDIA by pressing the NETCAST button and select Yahoo!</li> </ul>
	Did the customer see "Starting Yahoo! TV Widgets" remain and TV Widget not displayed?	<ul style="list-style-type: none"> <li>■ Press the NETCAST button and then select NETFLIX, press the WIDGETS button to enter Yahoo! TV Widget. This re-starts Yahoo! TV Widgets.</li> </ul>
	Nothing happens when pressing <b>WIDGETS</b> button	<ul style="list-style-type: none"> <li>■ Press WIDGETS button and wait a minute, then nothing happens.</li> <li>■ Contact Yahoo! help site: <a href="http://connectedtv.yahoo.com/help">http://connectedtv.yahoo.com/help</a></li> <li>■ Turn off TV and Turn on TV, press NETCAST button and then BLUE button, select "Restore Yahoo! Factory Settings" to restore Yahoo! Factory Settings.</li> </ul>
Failed to open some widgets	Is "Loading" message displayed?	<ul style="list-style-type: none"> <li>■ If yes, try after "Loading" message disappeared.</li> <li>■ If "Loading" message does not disappeared, then delete that widget and re-install it.</li> </ul>
	Check IP Address setting is OK?	<ul style="list-style-type: none"> <li>■ If not, connect Network Cable properly and set IP address from menu and try again.</li> </ul>
	Is Connection Unavailable icon (yellow triangle) displayed on snippet?	<ul style="list-style-type: none"> <li>■ If connection unavailable icon displayed, try later because some server which widget uses may are under maintenance. If this happens again, contact proper help site displayed on setting panel for each widget or contact Yahoo! help site. <a href="http://connectedtv.yahoo.com/help">http://connectedtv.yahoo.com/help</a></li> </ul>
	The customer cannot open a widget but all other widget working properly – for example, weather forecast on Weather widget or stock price/fluctuation for finance widget and so on.	<ul style="list-style-type: none"> <li>■ Try again later or If the problem still happens,</li> <li>■ Delete that widget with following instruction. Press Yellow button from Dock, and then press RED button twice to delete that widget. After deleted, open Widget Gallery and browse to find that widget and select "Add Widget to My Profile" to install that widget and then try again.</li> <li>■ If problem still happens, restore Yahoo! Factory Setting by pressing NETCAST button and BLUE button on your remote control.</li> </ul>



## Yahoo! TV Widgets Problems

Widget is stuck if the remote control button is pressed.	Press RETURN button and try again later.	<ul style="list-style-type: none"> <li>Normal operation for return previous status of Yahoo! TV Widgets. Some server response is not fast as you expect.</li> </ul>
	Check IP Address setting is OK?	<ul style="list-style-type: none"> <li>If not, connect Network Cable properly and set IP address from Network menu and try again or contact Internet service provider.</li> </ul>
	Press RED or WIDGETS button on remote control.	<ul style="list-style-type: none"> <li>Exits Yahoo! TV Widgets by pressing RED button on your remote and re-enter by WIDGETS button.</li> </ul>
	Press NETCAST button.	<ul style="list-style-type: none"> <li>Exits Yahoo! TV Widgets by pressing NETCAST button and enter NETFLIX temporarily, and re-enter Yahoo! Widgets by pressing NETCAST button and select Yahoo!</li> <li>If problem still happens for one widget.                             <ul style="list-style-type: none"> <li>Delete that widget with following instruction. Press Yellow button from Dock, and then press RED button twice to delete that widget. After deleted, open Widget Gallery and browse to find that widget and select "Add Widget to My Profile" to install that widget and then try again.</li> </ul> </li> <li>If problem still happens for all widgets, restore Yahoo! Factory Setting by pressing NETCAST button and BLUE button on your remote control, and select "Restore Yahoo! Factory Settings" item on your TV Screen.</li> </ul>
Gallery - Unable to install widget from gallery	Check IP Address setting is OK?	<ul style="list-style-type: none"> <li>If not, connect Network Cable properly and set IP address from menu-Option and try again or contact Internet service provider.</li> </ul>
	Is Lock Icon on right side of "Add Widget to My Profile"?	<ul style="list-style-type: none"> <li>Need Owner PIN to install. If you forgot Owner PIN, contact Yahoo! for further help. <a href="http://connectedtv.yahoo.com/help">http://connectedtv.yahoo.com/help</a></li> </ul>
	"Install completed" but it never work.	<ul style="list-style-type: none"> <li>Try to re-start Yahoo! TV Widgets after enter MY MEDIA and exit from MY MEDIA.</li> <li>Or Delete it and re-install it.</li> </ul>
Flicker - "We could not find anything to display" message displayed	Is connection unavailable icon (yellow triangle) displayed?	<ul style="list-style-type: none"> <li>If yes, check network settings or contact internet service provider, or try later.</li> </ul>
	Did you sign-in Yahoo! account?	<ul style="list-style-type: none"> <li>If yes, you need to upload your photos to Flickr site to display when sign-in Yahoo.</li> <li>If not, try again later. The Flickr server may be under maintenance, or contact service provider.</li> </ul>

# APPENDIX

## MAINTENANCE

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

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

### Cleaning the Screen

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

### Cleaning the Cabinet

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

### Extended Absence

#### CAUTION

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

## PRODUCT SPECIFICATIONS

MODELS		32LD550 (32LD550-UB)	42LD550 (42LD550-UB)	46LD550 (46LD550-UB)
Dimensions (Width x Height x Depth)	With stand	31.5 x 22.2 x 8.1 inches 800.0 x 563.0 x 207.0 mm	40.3 x 27.4 x 10.3 inches 1024.0 x 695.0 x 261.0 mm	43.9 x 29.6 x 10.6 inches 1115.0 x 752.0 x 270.0 mm
	Without stand	31.5 x 19.8 x 2.9 inches 800.0 x 503.0 x 74.7 mm	40.3 x 24.9 x 3.1 inches 1024.0 x 632.0 x 78.7 mm	43.9 x 26.8 x 3.0 inches 1115.0 x 680.0 x 77.0 mm
Weight	With stand	22.4 lbs / 10.2 kg	33.9 lbs / 15.4 kg	41.0 lbs / 18.6 kg
	Without stand	20.2 lbs / 9.2 kg	30.4 lbs / 13.8 kg	36.5 lbs / 16.6 kg

MODELS		52LD550 (52LD550-UB)	60LD550 (60LD550-UB)
Dimensions (Width x Height x Depth)	With stand	49.8 x 33.5 x 13.0 inches 1266.0 x 851.0 x 330.0 mm	56.7 x 37.9 x 13.6 inches 1441.0 x 963.0 x 345.0 mm
	Without stand	49.8 x 29.3 x 3.8 inches 1266.0 x 745.0 x 96.4 mm	56.7 x 34.5 x 4.3 inches 1441.0 x 877.0 x 109.0 mm
Weight	With stand	59.3 lbs / 26.9 kg	86.6 lbs / 39.3 kg
	Without stand	52.0 lbs / 23.6 kg	78.2 lbs / 35.5 kg

Power requirement	AC100-240V ~ 50/60Hz		
Television System	NTSC-M, ATSC, 64 & 256 QAM		
Program Coverage	VHF 2-13, UHF 14-69, CATV 1-135, DTV 2-69, CADTV 1-135		
External Antenna Impedance	75 ohm		
Environment condition	Operating Temperature	32 ~ 104°F (0 ~ 40°C)	
	Operating Humidity	Less than 80%	
	Storage Temperature	-4 ~ 140°F (-20 ~ 60°C)	
	Storage Humidity	Less than 85%	

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

# APPENDIX

MODELS		47LD650 (47LD650-UA)	55LD650 (55LD650-UA)
Dimensions (Width x Height x Depth)	With stand	44.7 x 29.8 x 10.6 inches 1137.0 x 758.0 x 270.0 mm	52.3 x 34.3 x 12.9 inches 1329.0 x 872.0 x 330.0 mm
	Without stand	44.7 x 26.9 x 3.0 inches 1137.0 x 685.0 x 76.8 mm	52.3 x 31.3 x 3.7 inches 1329.0 x 796.0 x 96.5 mm
Weight	With stand	44.7 lbs / 20.3 kg	70.7 lbs / 32.1 kg
	Without stand	40.3 lbs / 18.3 kg	63.7 lbs / 28.9 kg

Power requirement	AC100-240V ~ 50/60Hz		
Television System	NTSC-M, ATSC, 64 & 256 QAM		
Program Coverage	VHF 2-13, UHF 14-69, CATV 1-135, DTV 2-69, CADTV 1-135		
External Antenna Impedance	75 ohm		
Environment condition	Operating Temperature	32 ~ 104°F (0 ~ 40°C)	
	Operating Humidity	Less than 80%	
	Storage Temperature	-4 ~ 140°F (-20 ~ 60°C)	
	Storage Humidity	Less than 85%	

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

# APPENDIX

## IR CODES

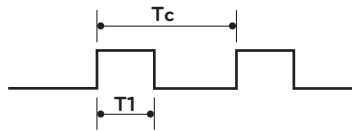
### 1. How to Connect

- Connect your wired remote control to the Remote Control port on the TV.

### 2. Remote Control IR Codes

#### Output waveform

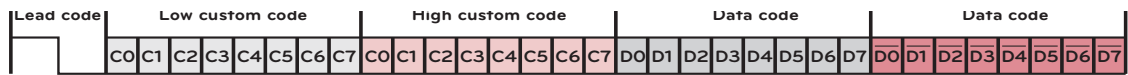
Single pulse, modulated with 37.917KHz signal at 455KHz



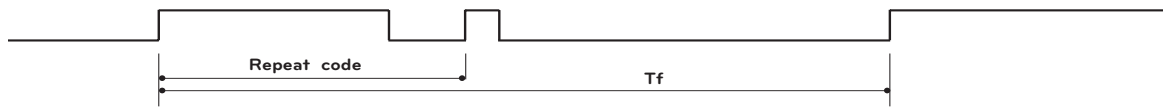
Carrier frequency  
 $FCAR = 1/TC = fOSC/12$   
 Duty ratio =  $T1/TC = 1/3$

#### Configuration of frame

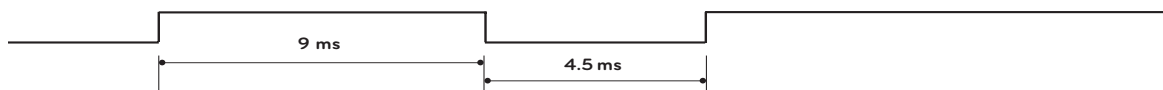
1st frame



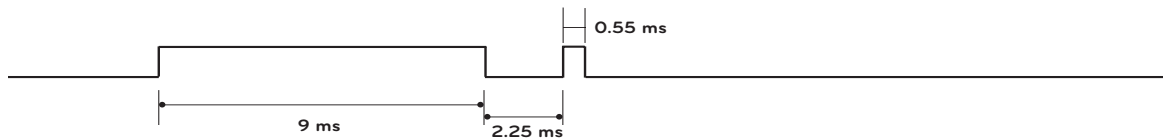
Repeat frame



#### Lead code



#### Repeat code



#### Bit description



#### Frame interval: Tf

The waveform is transmitted as long as a key is depressed.



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

# APPENDIX

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Version 2, June 1991

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# APPENDIX

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# APPENDIX

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Version 1.1

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# APPENDIX

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**LG Electronics Inc.**

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- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into 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.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's (or your) authority to operate the equipment. Only peripherals (digital input/output devices, terminals, printers, etc.) certified to comply with the Class B limits may be attached to this monitor. Operation with non-certified peripherals is likely to result in interference to radio and TV reception. Only shielded signal cables may be used with this System.

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- EN 55024 ; Electromagnetic Immunity
- EN 61000-3-2 ; Power Line Harmonics
- EN 61000-3-3 ; Voltage Fluctuations
- EN 60950-1 ; Product Safety

#### NOTICE

The regulations are applied only to the products with the ID LABEL indicating specific requirements.

### :: Low Radiation Compliance (MPR II)

This monitor meets one of the strictest guidelines available today for low radiation emissions, offering the user extra shielding and an antistatic screen coating. These guidelines, set forth by a government agency in Sweden, limit the amount of emission allowed in the Extremely Low Frequency (ELF) and Very Low Frequency (VLF) electromagnetic range.

### :: TCO'99 (TCO'99 applied model only)



#### Congratulations!

You have just purchased a TCO'99 approved and labelled product! Your choice has provided you with a product developed for professional use. Your purchase has also contributed to reducing the burden on the environment and also to the further development of environmentally adapted electronics products.

## ■■■ Regulatory Information cont.

### **Why do we have environmentally labelled computers?**

In many countries, environmental labelling has become an established method for encouraging the adaptation of goods and services to the environment. With the growing manufacture and usage of electronic equipment throughout the world, there is a recognized concern for the materials and substances used by electronic products with regards to their eventual recycling and disposal. By proper selection of these materials and substances, the impact on the environment can be minimized.

There are also other characteristics of a computer, such as energy consumption levels, that are important from the viewpoints of both the work (internal) and natural (external) environments. Electronic equipment in offices is often left running continuously, resulting in unnecessary consumption of large amounts of energy and additional power generation. From the standpoint of carbon dioxide emissions alone, it is vital to save energy.

### **What does labelling involve?**

The product meets the requirements for the TCO'99 scheme which provides for international and environmental labelling of personal computers and/or displays.

The labelling scheme was developed as a joint effort by the TCO (The Swedish Confederation of Professional Employees), Svenska Naturskyddsforeningen (The Swedish Society for Nature Conservation) and Statens Energimyndighet (The Swedish National Energy Administration).

Approval requirements cover a wide range of issues: ecology, ergonomics, emission of electrical and magnetical fields, energy consumption and electrical safety.

Ecological criteria impose restrictions on the presence and use of heavy metals, brominated and chlorinated flame retardants, and other substances. The product must be prepared for recycling and the manufacturing site(s) shall be certified according to ISO14001 or EMAS registered.

Energy requirements include a demand that the system unit and/or display, after a certain period of inactivity, shall reduce its power consumption to a lower level in one or more stages. The length of time to reactivate the system unit shall be reasonable for the user.

Labelled products must meet strict environmental demands, for example, in respect of the reduction of electrical and magnetical fields as well as work load and

visual ergonomics.

Below you will find a brief summary of the ecological requirements met by this product. The complete ecological criteria document can be found at TCO Development's website <http://www.tcodevelopment.com> or may be ordered from:

#### **TCO Development**

SE-114 94 STOCKHOLM, Sweden

Fax: +46 8 782 92 07

Email : [development@tco.se](mailto:development@tco.se)

Information regarding TCO'99 approved and labelled products may also be obtained at <http://www.tcodevelopment.com>

### **Ecological requirements**

#### **Flame retardants**

Flame retardants may be present in printed wiring board laminates, cables, and housings. Their purpose is to prevent, or at least to delay the spread of fire. Up to 30% by weight of the plastic in a computer casing can consist of flame retardant substances. Many flame retardants contain bromine or chlorine, and these flame retardants are chemically related to PCBs (polychlorinated biphenyls). Both the flame retardants containing bromine or chlorine and the PCBs are suspected of giving rise to health effects, including reproductive damage in fish-eating birds and mammals, due to the bio-accumulative\* processes when not disposed of in accordance with strict standards for disposal.

TCO'99 requires that plastic components weighing more than 25 grams shall not contain flame retardants with organically bound bromine or chlorine. Flame retardants are allowed in the printed wiring board laminates due to the lack of commercially available alternatives.

#### **Cadmium\*\***

Cadmium is present in rechargeable batteries and in the colour-generating layers of certain computer displays. TCO'99 requires that batteries, the colour-generating layers of display screens, and the electrical or electronics components shall not contain any cadmium.

#### **Mercury\*\***

Mercury is sometimes found in batteries, relays and switches. TCO'99 requires that batteries shall not contain any mercury. It also demands that mercury is not present in any of the electrical or electronics components associated with the labelled unit. There is however one

## ■■■ Regulatory Information cont.

exception. Mercury is, for the time being, permitted in the back light system of flat panel monitors as there today is no commercially available alternative. TCO aims on removing this exception when a mercury free alternative is available.

### Lead\*\*

Lead can be found in picture tubes, display screens, solders and capacitors. TCO'99 permits the use of lead due to the lack of commercially available alternatives, but in future requirements TCO Development aims at restricting the use of lead.

\* Bio-accumulative is defined as substances which accumulate in living organisms.

\*\*Lead, Cadmium and Mercury are heavy metals which are bio-accumulative.

:: **TCO'03** (TCO'03 applied model only)



### Congratulations!

The display you have just purchased carries the TCO'03 Displays label.

This means that your display is designed, manufactured and tested according to some of the strictest quality and environmental requirements in the world. This makes for a high performance product, designed with the user in focus that also minimizes the impact on our natural environment. Some of the features of the TCO'03 Display requirements:

### Ergonomics

- Good visual ergonomics and image quality in order to improve the working environment for the user and to reduce sight and strain problems. Important parameters are luminance, contrast, resolution, reflectance, colour rendition and image stability.

### Energy

- Energy-saving mode after a certain time – beneficial both for the user and the environment
- Electrical safety

### Emissions

- Electromagnetic fields

- Noise emissions

### Ecology

- The product must be prepared for recycling and the manufacturer must have a certified environmental management system such as EMAS or ISO 14 001
- Restrictions on
  - chlorinated and brominated flame retardants and polymers
  - heavy metals such as cadmium, mercury and lead.

The requirements included in this label have been developed by TCO Development in co-operation with scientists, experts, users as well as manufacturers all over the world. Since the end of the 1980s TCO has been involved in influencing the development of IT equipment in a more user-friendly direction. Our labelling system started with displays in 1992 and is now requested by users and IT-manufacturers all over the world.

For more information, please visit  
[www.tcodevelopment.com](http://www.tcodevelopment.com)

## English

### Information for Environmental Preservation

LGE. announced the 'LG Declaration for a Cleaner Environment' in 1994, and this ideal has served as a guiding managerial principle ever since. The Declaration is a foundation that has allowed us to undertake environmentally friendly activities in careful consideration of economic, environmental, and social aspects.

We promote activities for environmental preservation, and we specifically develop our products to embrace the concept of environment-friendly.

We minimize the hazardous materials contained in our products. For example, there is no cadmium to be found in our monitors.

### Information for recycling

This monitor may contain parts which could be hazardous to the environment. It is important that this monitor be recycled after use.

LGE. handles all waste monitors through an environmentally acceptable recycling method. There are several take-back and recycling systems currently in



## ■■■ Regulatory Information cont.

operation worldwide. Many parts will be reused and recycled, while harmful substances and heavy metals are treated by an environmentally friendly method.

If you want to find out more information about our recycling program, please contact your local LG vendor or a corporate representative of LG.

We set our vision and policies on a cleaner world by selecting the issue of the global environment as a task for corporate improvement. Please visit our website for more information about our 'green' policies.

<http://www.lge.com/about/environment/html/Recycling.jsp>

### ■ ■ ■ Deutsch

#### Informationen zur Erhaltung der Umwelt

Im Jahr 1994 verkündete LGE die 'LG Declaration for a Cleaner Environment' (LG Erklärung für eine sauberere Umwelt). Seitdem dient dieses Ideal als führendes Prinzip des Unternehmens. Diese Erklärung war die Basis für die Durchführung von

umweltfreundlichen Aktivitäten, wobei wirtschaftliche, umweltbezogene und soziale Aspekte in die Überlegungen mit einbezogen wurden.

Wir fördern Aktivitäten zum Schutz der Umwelt und die Entwicklung unserer Produkte ist darauf ausgerichtet, unserem Konzept bezüglich Umweltfreundlichkeit gerecht zu werden.

Wir sind darauf bedacht, den Anteil der in unseren Produkten enthaltenen schädlichen Materialien zu minimieren. So ist in unseren Monitoren beispielsweise kein Kadmium zu finden.

#### Informationen zum Thema Recycling

Dieser Monitor enthält Teile, die umweltschädlich sein können. Es ist unbedingt erforderlich, dass der Monitor recycelt wird, nachdem er außer Dienst gestellt wurde.

Bei LGE werden alle ausrangierten Monitore in einem unter umweltbezogenen Aspekten geeigneten Verfahren recycelt. Augenblicklich sind weltweit mehrere Rücknahme- und Recyclingsysteme im Einsatz. Viele Teile werden wieder verwendet und recycelt. Schädliche Substanzen und Schwermetalle werden durch umweltverträgliche Verfahren behandelt.

Falls Sie mehr über unser Recyclingprogramm erfahren möchten, wenden Sie sich bitte an Ihren lokalen LG-Händler oder einen Unternehmensvertreter von LG.

Wir richten unsere Firmenpolitik auf eine sauberere Umwelt hin aus, indem wir umweltspezifische Aspekte als wichtigen Punkt in die Weiterentwicklung unseres Unternehmens einfließen lassen. Zusätzliche Informationen über unsere 'grüne' Firmenpolitik erhalten Sie auf unserer Website.

<http://www.lge.com/about/environment/html/Recycling.jsp>

### ■ ■ ■ Français

#### Information sur la protection de l'environnement

LGE a publié sa 'Déclaration en faveur d'un environnement plus propre' en 1994 et celle-ci est restée, depuis lors, un principe directeur de notre entreprise. Cette déclaration a servi de base à notre réflexion et nous a permis de prendre en compte à la fois les aspects économiques et sociaux de nos activités, tout en respectant l'environnement.

Nous encourageons les activités en faveur de la préservation de l'environnement et c'est dans cet esprit que nous développons nos produits : nous réduisons au minimum les matières dangereuses qui entrent dans leur composition et l'on ne trouve pas de cadmium, par exemple, dans nos moniteurs.

#### Information sur le recyclage

Ce moniteur peut contenir des composants qui présentent un risque pour l'environnement. Il est donc important que celui-ci soit recyclé après usage.

LGE traite les moniteurs en fin de cycle conformément à une méthode de recyclage respectueuse de l'environnement. Nous reprenons nos produits et les recyclons dans plusieurs sites répartis dans le monde entier. De nombreux composants sont réutilisés et recyclés, et les matières dangereuses, ainsi que les métaux lourds, sont traités selon un procédé écologique.

Si vous souhaitez plus de renseignements sur notre programme de recyclage, veuillez contacter votre revendeur LG ou un l'un de nos représentants.

Nous voulons agir pour un monde plus propre et croyons au rôle de notre entreprise dans l'amélioration de l'environnement. Pour plus de renseignements sur notre politique "verte", rendez visite à notre site :

<http://www.lge.com/about/environment/html/Recycling.jsp>

## Regulatory Information cont.

### Italiano

#### Informazioni per la tutela dell'ambiente

La LGE. ha annunciato nel 1994 la cosiddetta 'LG Declaration for a Cleaner Environment' (Dichiarazione di LG a favore di un ambiente più pulito), un ideale che da allora funge da principio ispiratore della gestione aziendale. La dichiarazione rappresenta il fondamento che consente di intraprendere attività a favore dell'ambiente tenendo conto degli aspetti economici, ambientali e sociali. Noi della LG, promuoviamo attività a favore della tutela dell'ambiente sviluppando appositamente i nostri prodotti per cogliere il concetto del rispetto dell'ambiente riducendo i materiali dannosi presenti nei nostri prodotti. Ad esempio nei nostri monitor non è presente il cadmio.

#### Informazioni per il riciclaggio

Il monitor può presentare componenti che potrebbero risultare eventualmente dannosi per l'ambiente. È importante che il monitor sia riciclato al termine del suo utilizzo.

La LGE. gestisce tutti i monitor di rifiuto con un metodo di riciclaggio soddisfacente dal punto di vista ambientale. In tutto il mondo sono attualmente in funzione numerosi sistemi di riciclaggio e recupero. I diversi componenti sono riutilizzati e riciclati, mentre le sostanze dannose e i metalli pesanti vengono trattati con un metodo rispettoso dell'ambiente.

Se si desiderano maggiori informazioni in merito al programma di riciclaggio, è consigliabile rivolgersi al proprio rivenditore LG o ad un rappresentante aziendale della LG.

Noi della LG impostiamo la nostra visione e le nostre politiche a favore di un mondo più pulito ponendo la questione dell'ambiente dal punto di vista globale come una mansione rivolta al miglioramento della nostra azienda. Vi invitiamo a visitare il nostro sito internet per ulteriori informazioni sulla nostra politica "verde".  
<http://www.lge.com/about/environment/html/Recycling.jsp>

### Espanol

#### Información para la conservación medioambiental

LGE. presentó la 'Declaración para un entorno más limpio de LG' en 1994 y este ideal ha servido para guiar nuestros principios empresariales desde entonces. La Declaración es la base que nos ha permitido llevar a cabo tareas que

respetan el medio ambiente siempre teniendo en cuenta aspectos sociales, económicos y medioambientales.

Promocionamos actividades orientadas a la conservación del medio ambiente y desarrollamos nuestros productos específicamente para que se ajusten a la filosofía que protege el entorno.

Reducimos al máximo el uso de materiales de riesgo en nuestros productos. Un ejemplo de ello es la ausencia total de cadmio en nuestros monitores.

#### Información para el reciclaje

Este monitor puede contener piezas que entrañen riesgos medioambientales. Es importante reciclar este monitor después de su utilización.

LGE. trata todos los monitores usados siguiendo un método de reciclaje que no daña al entorno. Contamos con diversos sistemas de recuperación y reciclaje que funcionan a nivel mundial en la actualidad. Es posible reciclar y reutilizar muchas de las piezas, mientras que las sustancias dañinas y los metales pesados se tratan siguiendo un método que no perjudique al medio ambiente. Si desea obtener más información acerca del programa de reciclaje, póngase en contacto con su proveedor local de LG o con un representante empresarial de nuestra marca.

Basamos nuestra visión y nuestras políticas en un mundo más limpio y para ellos optamos por un entorno global como tarea principal de nuestra evolución como empresa. Visite nuestra página Web para obtener más información sobre nuestras políticas ecológicas.

<http://www.lge.com/about/environment/html/Recycling.jsp>

### Português

#### Informações relacionadas à preservação ambiental

A LGE. anunciou a 'LG Declaration for a Cleaner Environment' (Declaração da LG para um ambiente mais limpo) em 1994 e esse ideal tem servido desde então como um princípio administrativo de orientação. A Declaração é a base que nos tem permitido realizar atividades favoráveis ao ambiente com consideração atenta aos aspectos econômicos, ambientais e sociais.

Promovemos atividades de preservação ambiental e desenvolvemos nossos produtos para englobar

## ■■■ Regulatory Information cont.

especificamente o conceito de favorável ao ambiente.

Reduzimos os materiais perigosos contidos em nossos produtos. Por exemplo, não há cádmio em nossos monitores.

### Informações relacionadas à reciclagem

Este monitor pode conter peças que podem representar riscos ao ambiente. É importante que ele seja reciclado após o uso.

A LGE. cuida de todos os monitores descartados através de um método de reciclagem agradável ao ambiente. Há vários sistemas de devolução e reciclagem atualmente em operação no mundo. Muitas peças serão reutilizadas e recicladas e as substâncias nocivas e os metais pesados passarão por tratamento através de um método favorável ao ambiente.

Para obter mais informações sobre nosso programa de reciclagem, entre em contato com seu fornecedor LG local ou com um representante corporativo da LG.

Definimos nossa visão e nossas políticas relacionadas a um mundo mais limpo selecionando a questão do ambiente global como uma tarefa de aprimoramento corporativo. Visite nosso site para obter mais informações sobre nossas políticas de meio ambiente.

<http://www.lge.com/about/environment/html/Recycling.jsp>

### ■ ■ ■ Nederlands

#### Informatie met betrekking tot het behoud van het milieu

LGE. publiceerde in 1994 de 'LG Declaration for a Cleaner Environment' (de LG-verklaring met betrekking tot een schoner milieu). Deze verklaring en het ideaal van een schoner milieu fungeren sindsdien als een bestuurlijke leidraad voor onze onderneming. Op basis van deze verklaring ontplooiën wij milieuvriendelijke activiteiten, waarbij er zowel met sociale en economische aspecten, als met milieuaspecten zorgvuldig rekening wordt gehouden.

Wij ondersteunen activiteiten die zijn gericht op het behoud van het milieu en wij houden bij het ontwikkelen onze producten specifiek rekening met de milieuvriendelijkheid van onze producten.

Wij minimaliseren het gebruik van schadelijke stoffen in onze producten. Er wordt bijvoorbeeld geen cadmium verwerkt in onze monitoren.

#### Informatie met betrekking tot recycling

Deze monitor bevat materialen die schadelijk zouden kunnen zijn voor het milieu. Het is belangrijk dat deze monitor aan het einde van zijn levensduur wordt gerecycled.

LGE. verwerkt alle afvalmonitoren via een milieuvriendelijke recyclingmethode. Hiervoor worden er momenteel wereldwijd verscheidene inname- en recyclingsystemen gehanteerd. Een groot aantal onderdelen wordt opnieuw gebruikt en gerecycled, waarbij schadelijke stoffen en zware metalen volgens een milieuvriendelijke methode worden verwerkt.

Voor meer informatie over ons recyclingprogramma kunt u contact opnemen met uw plaatselijke LG-vertegenwoordiger of een LG-vestiging.

Onze visie en ons beleid met betrekking tot een schonere wereld vloeien voort uit het feit dat wij het milieu hebben aangemerkt als een onderwerp dat speciale aandacht verdient binnen onze onderneming. Bezoek onze website voor meer informatie over ons 'groene' beleid.

<http://www.lge.com/about/environment/html/Recycling.jsp>

### ■ ■ ■ Russian

#### Информация по охране окружающей среды

В 1994 году корпорация LGE опубликовала 'Декларацию LG по охране окружающей среды', которая с тех пор служит основным принципом управления. На основе этой декларации мы смогли предпринять действия, обеспечивающие безопасность окружающей среды, уделяя при этом должное внимание экономическим, экологическим и социальным аспектам.

Мы стимулируем деятельность по охране окружающей среды, уделяя особое внимание разработке нашей продукции в соответствии с концепцией экологической безопасности.

Мы сводим к минимуму содержание опасных веществ в нашей продукции. Например, в наших мониторах вы не найдете кадмия.

#### Информация по утилизации отходов

Этот монитор может содержать компоненты, которые могут нанести ущерб окружающей среде.

■■■ Regulatory Information cont.

Необходимо утилизировать монитор после использования.

Корпорация LGE перерабатывает все бракованные мониторы с помощью экологически приемлемого метода утилизации отходов. По всему миру действуют системы утилизации отходов и возврата использованной продукции. Многие компоненты будут вторично использованы и утилизированы, в то время как вредные вещества и тяжелые металлы будут обработаны с помощью экологически приемлемого метода.

За более подробной информацией по нашей программе утилизации отходов обращайтесь к местному поставщику или представителю корпорации LG.

Мы ориентируемся на обеспечение экологической безопасности, ставя себе целью глобальную защиту окружающей среды. Дополнительную информацию о нашей политике по охране окружающей среды вы можете найти на нашем сайте:  
<http://www.lge.com/about/environment/html/Recycling.jsp>

한국어

환경 보존 정보

LG 전자는 1994년 'LG 환경 선언문'을 발표한 후 현재까지 이를 기업 경영의 이념으로 삼아왔습니다. 이 선언문을 바탕으로 LG 전자는 모든 경영 활동에서 경제성뿐만 아니라 환경성 및 사회성을 주요 의사 결정의 기준으로 삼음으로써 지속적으로 환경 친화적인 경영을 전개하고 있습니다.

본사는 보다 활발한 환경 보존 활동과 더불어 환경 친화적 제품 개발에 주력해 왔습니다.

또한 제품에 포함되는 환경 위해 요소를 최소화하는 데에도 노력을 기울이지 않고 있습니다. LG 전자 모니터의 경우 카드를 전혀 사용하지 않는 것에서도 이러한 노력을 알 수 있습니다.

재활용 정보

본 모니터에는 환경에 위해를 주는 부품이 포함되어 있을 수도 있습니다. 따라서 사용이 끝난 모니터는 재활용하는 것이 좋습니다.

폐모니터는 모두 환경 친화적 방식으로 처리됩니다. 현재 세계적으로 운영되고 있는 회수 및 재활용 시스템에는

여러 가지가 있습니다. 대부분의 부품의 경우 재사용 또는 재활용되지만 환경 위해 물질과 중금속은 환경 친화적 방법으로 처리됩니다.

본사의 재활용 프로그램에 대한 자세한 정보는 각 지역의 LG 공급업체나 LG 기업 대표부에 문의하시기 바랍니다.

LG 전자는 기업 개선 정책의 하나로 지구 환경 문제를 채택함으로써 보다 나은 환경을 만들어 나가기 위한 비전과 정책을 수립했습니다. 본사의 친환경 정책에 대한 자세한 정보를 보시려면 아래의 웹 사이트를 방문하십시오.

[http://www.lge.co.kr/cckr/about/environ/purity\\_02.jsp](http://www.lge.co.kr/cckr/about/environ/purity_02.jsp)

∴EPA (EPA applied model only)

ENERGY STAR is a set of power-saving guidelines issued by the U.S. Environmental Protection Agency(EPA).



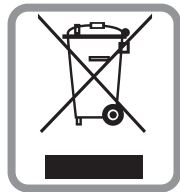
As an ENERGY STAR Partner LGE U. S. A.,Inc. has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

∴NOM MARK (Mexico only)



## Regulatory Information cont.

### :: WEEE (for Europe )



#### English

##### Disposal of your old appliance

1. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
2. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

#### French

##### Élimination de votre ancien appareil

1. Ce symbole, représentant une poubelle sur roulettes barrée d'une croix, signifie que le produit est couvert par la directive européenne 2002/96/EC.
2. Les éléments électriques et électroniques doivent être jetés séparément, dans les vide-ordures prévus à cet effet par votre municipalité.
3. Une élimination conforme aux instructions aidera à réduire les conséquences négatives et risques éventuels pour l'environnement et la santé humaine.
4. Pour plus d'information concernant l'élimination de votre ancien appareil, veuillez contacter votre mairie, le service des ordures ménagères ou encore la magasin où vous avez acheté ce produit.

#### Italian

##### Smaltimento delle apparecchiature obsolete

1. Quando su un prodotto è riportato il simbolo di

un bidone della spazzatura barrato da una croce significa che il prodotto è coperto dalla direttiva europea 2002/96/EC.

2. Tutti i prodotti elettrici ed elettronici dovrebbero essere smaltiti separatamente rispetto alla raccolta differenziata municipale, mediante impianti di raccolta specifici designati dal governo o dalle autorità locali.
3. Il corretto smaltimento delle apparecchiature obsolete contribuisce a prevenire possibili conseguenze negative sulla salute umana e sull'ambiente.
4. Per informazioni più dettagliate sullo smaltimento delle apparecchiature obsolete, contattare il comune, il servizio di smaltimento rifiuti o il negozio in cui è stato acquistato il prodotto.

#### Swedish

##### Kassering av din gamla apparat

1. När den här symbolen med en överkryssad soptunna på hjul sitter på en produkt innebär det att den regleras av European Directive 2002/96/EC.
2. Alla elektriska och elektroniska produkter bör kasseras via andra vägar än de som finns för hushållsavfall, helst via för ändamålet avsedda uppsamlingsanläggningar som myndigheterna utser.
3. Om du kasserar din gamla apparat på rätt sätt så bidrar du till att förhindra negativa konsekvenser för miljön och människors hälsa.
4. Mer detaljerad information om kassering av din gamla apparat kan fås av kommunen, renhållningsverket eller den butik där du köpte produkten.

#### Dutch

##### Uw oude toestel wegdoen

1. Als het symbool met de doorgeslechte verrijdbare afvalbak op een product staat, betekent dit dat het product valt onder de Europese Richtlijn 2002/96/EC.
2. Elektrische en elektronische producten mogen niet worden meegegeven met het huishoudelijk afval, maar moeten worden ingeleverd bij speciale inzamelingspunten die door de lokale of landelijke overheid zijn aangewezen.
3. De correcte verwijdering van uw oude toestel helpt negatieve gevolgen voor het milieu en de menselijke gezondheid voorkomen.

## Regulatory Information cont.

4. Wilt u meer informatie over de verwijdering van uw oude toestel? Neem dan contact op met uw gemeente, de afvalophaaldienst of de winkel waar u het product hebt gekocht.

### Finnish

#### Vanhonjen laitteiden hävittäminen

1. Tämä merkki tuotteessa tarkoittaa, että tuote kuuluu sähkö- ja elektroniikkalaiteromusta annetun EU-direktiivin 2002/96/EY soveltamisalaan.
2. Kaikki elektroniset laitteet ovat ongelmajätettä, joten ne on toimitettava paikalliseen keräyspisteeseen.
3. Vanhan laitteen asianmukainen hävittäminen ehkäisee mahdollisia ympäristöön ja terveyteen kohdistuvia haittavaikutuksia.
4. Lisätietoa vanhan laitteen hävittämisestä saat ottamalla yhteyden paikallisiin viranomaisiin, kierrätyskeskukseen tai myymälään, josta ostit laitteen.

### German

#### Entsorgung von Altgeräten

1. Wenn dieses Symbol eines durchgestrichenen Abfalleimers auf einem Produkt angebracht ist, unterliegt dieses Produkt der europäischen Richtlinie 2002/96/EC.
2. Alle Elektro- und Elektronik-Altgeräte müssen getrennt vom Hausmüll über dafür staatlich vorgesehenen Stellen entsorgt werden.
3. Mit der ordnungsgemäßen Entsorgung des alten Geräts vermeiden Sie Umweltschäden und eine Gefährdung der persönlichen Gesundheit.
4. Weitere Informationen zur Entsorgung des alten Geräts erhalten Sie bei der Stadtverwaltung, beim Entsorgungsamt oder in dem Geschäft, wo Sie das Produkt erworben haben.

### Danish

#### Sådan smider du dit gamle apparat ud

1. Når der er et tegn med et kryds over en skraldespand, betyder det, at produktet er omfattet af EU-direktiv 2002/96/EC.
2. Alle elektriske og elektroniske produkter skal smides ud et andet sted end gennem den kommunale affaldsordning ved hjælp af specielle indsamlingsfaciliteter, der er organiseret af staten

eller de lokale myndigheder.

3. Korrekt bortskaffelse af dit gamle apparat er med til at forhindre mulige skadevirkninger på miljøet og menneskelig sundhed.
4. Mere detaljerede oplysninger om bortskaffelse af dit gamle apparat kan fås ved at kontakte dit lokale kommunekontor, renovationselskab eller den butik, hvor du købte produktet.

### Greek

#### Απόρριψη της παλιάς σας συσκευής

1. Όταν ένα προϊόν διαθέτει το σύμβολο ενός διαγραμμένου κάλαθου απορριμμάτων, τότε το προϊόν καλύπτεται από την Ευρωπαϊκή Οδηγία 2002/96/ΕΟΚ.
2. Η απόρριψη όλων των ηλεκτρικών και ηλεκτρονικών προϊόντων πρέπει να γίνεται χωριστά από τα γενικά οικιακά απορρίμματα μέσω καθορισμένων εγκαταστάσεων συλλογής απορριμμάτων, οι οποίες έχουν δημιουργηθεί είτε από την κυβέρνηση ή από τις τοπικές αρχές.
3. Η σωστή απόρριψη της παλιάς σας συσκευής θα βοηθήσει στην αποτροπή πιθανών αρνητικών συνεπειών ως προς το περιβάλλον και την υγεία του ανθρώπου.
4. Για πιο λεπτομερείς πληροφορίες σχετικά με την απόρριψη της παλιάς σας συσκευής, επικοινωνήστε με το αρμόδιο τοπικό γραφείο, υπηρεσία διάθεσης οικιακών απορριμμάτων ή το μαγαζί από το οποίο αγοράσατε το προϊόν.

### Spanish

#### Cómo deshacerse de aparatos eléctricos y electrónicos viejos

1. Si en un producto aparece el símbolo de un contenedor de basura tachado, significa que éste se acoge a la Directiva 2002/96/CE.
2. Todos los aparatos eléctricos o electrónicos se deben desechar de forma distinta del servicio municipal de recogida de basura, a través de puntos de recogida designados por el gobierno o las autoridades locales.
3. La correcta recogida y tratamiento de los dispositivos inservibles contribuye a evitar riesgos potenciales para el medio ambiente y la salud pública.
4. Para obtener más información sobre cómo deshacerse de sus aparatos eléctricos y electrónicos viejos, póngase en contacto con su ayuntamiento, el servicio de recogida de basuras o el establecimiento donde adquirió el producto.

## Regulatory Information cont.

### Portuguese

#### Eliminação do seu antigo aparelho

1. Quando este símbolo de latão cruzado estiver afixado a um produto, significa que o produto é abrangido pela Directiva Europeia 2002/96/EC.
2. Todos os produtos eléctricos e electrónicos devem ser eliminados separadamente do lixo doméstico através de pontos de recolha designados, facilitados pelo governo ou autoridades locais.
3. A eliminação correcta do seu aparelho antigo ajuda a evitar potenciais consequências negativas para o ambiente e para a saúde humana.
4. Para obter informações mais detalhadas acerca da eliminação do seu aparelho antigo, contacte as autoridades locais, um serviço de eliminação de resíduos ou a loja onde comprou o produto.

### Slovak

#### Likvidácia váš ho starého prístroja

1. Keď sa na produkte nachádza tento symbol prečiarknutej smetnej nádoby s kolieskami, znamená to, že daný produkt vyhovuje európskej Smernici č. 2002/96/EC.
2. Všetky elektrické a elektronické produkty by mali byť zlikvidované oddelene od komunálneho odpadu prostredníctvom na to určených zberných zariadení, ktoré boli ustanovené vládou alebo orgánmi miestnej správy.
3. Správnu likvidáciu starých zariadení pomôžete predchádzať potenciálnym negatívnym následkom pre prostredie a ľudské zdravie.
4. Podrobnejšie informácie o likvidácii starých zariadení nájdete na miestnom úrade, v službe na likvidáciu odpadu alebo u predajcu, kde ste tento produkt zakúpili.

### Czech

#### Likvidace starých spotřebičů

1. Pokud je u výrobku uveden symbol pojízdného kontejneru v přeškrtnutém poli, znamená to, že na výrobek se vztahuje směrnice Evropské unie číslo 2002/96/EC.
2. Všechny elektrické a elektronické výrobky by měly být likvidovány odděleně od běžného komunálního odpadu prostřednictvím sběrných zařízení zřízených za tímto účelem vládou nebo místní samosprávou.
3. Správný způsob likvidace starého elektrického spotřebiče pomáhá zamezit možným negativním dopadům na životní prostředí a zdraví.
4. Bližší informace o likvidaci starého spotřebiče získáte u místní samosprávy, ve sběrném zařízení nebo v obchodě, ve kterém jste výrobek zakoupili.

### Croatian

#### Uklanjanje starog aparata

1. Ako se na proizvodu nalazi simbol prekrizhene kante za smeće, to znači da je proizvod pokriven europskom direk-

tivom 2002/96/EC.

2. Električni i elektronski proizvodi ne smiju se odlagati zajedno s komunalnim otpadom, već u posebna odlagališta koja je odredila vlada ili lokalne vlasti.
3. Pravilno odlaganje starog proizvoda sprečiti će potencijalne negativne posljedice po okoliš i zdravlje ljudi.
4. Podrobnije informacije o odlaganju starog proizvoda potražite u gradskom uredu, službi za odlaganje otpada ili u trgovini u kojoj ste kupili proizvod.

### Hungarian

#### Régi eszközök ártalmatlanítása

1. A termékhez csatolt áthúzott, keresek szeméttároló jel jelöli, hogy a termék a 2002/96/EC EU-direktíva hatálya alá esik.
2. Minden elektromos és elektronikai terméket a lakossági hulladéktól elkülönítve kell begyűjteni, a kormány vagy az önkormányzatok által kijelölt begyűjtő eszközök használatával.
3. Régi eszközeinek megfelelő ártalmatlanítása segíthet megelőzni az esetleges egészségre vagy környezetre ártalmas hatásokat.
4. Ha több információra van szüksége régi eszközeinek ártalmatlanításával kapcsolatban, tanulmányozza a vonatkozó környezetvédelmi szabályokat, vagy lépjen kapcsolatba az üzlettel, ahol a terméket vásárolta.

### Polish

#### Utylizacja starych urządzeń

1. Kiedy do produktu dołączony jest niniejszy przekreślony symbol kołowego pojemnika na śmieci, oznacza to, że produkt jest objęty dyrektywą 2002/96/EC.
2. Wszystkie elektryczne i elektroniczne produkty powinny być utylizowane niezależnie od odpadów miejskich, z wykorzystaniem przeznaczonych do tego miejsc składowania wskazanych przez rząd lub miejscowe władze.
3. Właściwy sposób utylizacji starego urządzenia pomoże zapobiec potencjalnie negatywnemu wpływowi na zdrowie i środowisko.
4. Aby uzyskać więcej informacji o sposobach utylizacji starych urządzeń, należy skontaktować się z władzami lokalnymi, przedsiębiorstwem zajmującym się utylizacją odpadów lub sklepem, w którym produkt został kupiony.

## ■■■ Regulatory Information cont.

### ■ ■ ■ Estonian

#### Kasutuskõlbmatu seadme käitlemise kord

1. Kui seade on märgistatud selle elektri- ja elektroonikaseadmete lahuskogumist märgistava tähisega (ratastega prügikonteineri kujutis, millele on rist peale tõmmatud), tuleb toodet käidelda vastavalt Eurodirektiivile 2002/96/EÜ.
2. Elektri- ja elektroonikaseadmeid ei tohi visata tavalise prügi hulka. Nad kuuluvad lahuskogumisele selleks määratud kogumispunktides.
3. Kasutuskõlbmatu tervikseadme käitlemine tavaprügist lahus on korraldatud selleks, et vältida negatiivseid tagajärgi, mida põhjustaksid seadme osade purunemisel vabaneda võivad ohtlikud jäätmed loodusele või inimorganismile.
4. Täpsemat informatsiooni selle kohta, kuhu ja millal saab ära anda oma kasutamiskõlbmatu elektri- ja elektroonikaseadme, küsige kohalikult omavalitsuselt, prügifirmalt või kaupluselt, kust seadme ostsite.

### ■ ■ ■ Latvian

#### Vecās elektroierīces nodošana

1. Ja uz produkta ir simbols ar pārsvītrotu atkritumu tvertni, tas nozīmē, ka produkts ir iekļauts Eiropas direktīvā 2002/96/EC.
2. Visi elektriskie un elektroniskie produkti ir jāutilizē, nododot pašvaldības īpaši noteiktās pieņemšanas vietās. Tos nedrīkst izmest parastās municipalitātes atkritumu urnās.
3. Ievērojot prasības veco elektroierīču utilizēšanā, jūs pasargāsi apkārtējo vidi un cilvēku veselību no iespējami nelabvēlīgajām sekām, kādas varētu rasties, ierīcēm sadaloties nepiemērotā vietā.
4. Lai gūtu plašāku informāciju par veco ierīču utilizēšanas iespējām, sazinieties ar pilsētas pašvaldību, atkritumu savākšanas saimniecību vai veikalu, kurā ierīci iegādājāties.

### ■ ■ ■ Lithuanian

#### Senos įrangos atliekų tvarkymas

1. Užbrauktas konteinerio simbolis priverčia atkreipti dėmesį, kad įrangą saugo Europos direktyva 2002/96/EC.
2. Visos elektros ir elektroninės įrangos atliekos turi būti renkamos atskirai ir neišmetamos į atliekų konteinerį kartu su kitomis komunalinėmis atliekomis, taikant specialią atliekų surinkimo sistemą, patvirtintą vyriausybės ar vietos valdžios.
3. Teisingas senos įrangos atliekų tvarkymas, padės išvengti neigiamų pasekmių aplinkai ir žmonių sveikatai.
4. Dėl išsamesnės informacijos apie senos įrangos tvarkymą, prašome kreiptis į miesto valdžią, atliekų perdirbimo tarnybą arba parduotuvę, kurioje pirkote įrangą.