

## Installation and Operating Guide

Model Numbers | Z42LC6DF, Z47LC6DF | LCD TV



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.





# 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.

**Any changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.**

## CAUTION

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

# SAFETY INSTRUCTIONS

## IMPORTANT SAFETY INSTRUCTIONS

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



- 1 Do not use this apparatus near water.



- 2 Clean only with dry cloth.



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



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



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



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



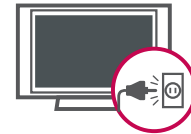
- 7 Only use attachments/accessories specified by the manufacturer.



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



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



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



- 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.

# SAFETY INSTRUCTIONS

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.

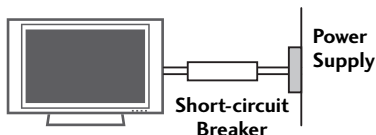


- 16** Do not expose to dripping or splashing and do not place objects filled with liquids, such as vases, cups, etc. on or over the apparatus (e.g. on shelves above the unit).



## 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, lightning rods, or gas pipes.



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

- 19** Keep the product away from direct sunlight.

## 20 ANTENNAS

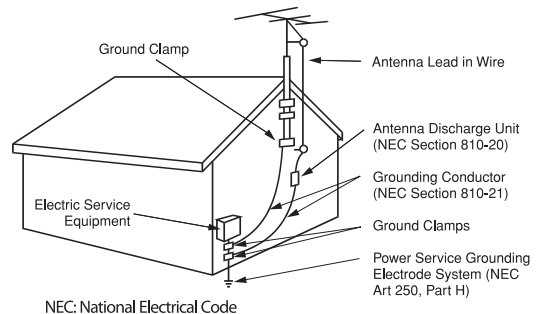
### Outdoor antenna grounding

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

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

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

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



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

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

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

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

# CONTENTS

<b>WARNING / CAUTION</b> .....	1
<b>SAFETY INSTRUCTIONS</b> .....	2
<b>FEATURE OF THIS TV</b> .....	6

## PREPARATION

Accessories .....	7
Front Panel Information .....	8
Back Panel Information .....	9
Securing the TV to the Wall to Prevent Falling When the TV is Used on a Stand .....	11
Cable Management .....	12
Desktop Pedestal Installation .....	13
VESA Wall Mounting .....	13
Antenna or Cable Connection .....	14

## EXTERNAL EQUIPMENT SETUP

HD Receiver Setup .....	15
DVD Setup .....	18
VCR Setup .....	20
Other A/V Source Setup .....	22
PC Setup .....	23
Audio Out Connection .....	28

## WATCHING TV / CHANNEL CONTROL

Remote Control Functions .....	30
Turning On TV .....	32
Channel Selection .....	32
Volume Adjustment .....	32
On-Screen Menus Selection .....	33
Channel Setup .....	34
- Auto Scan (Auto Tuning) .....	34
- Add/Delete Channel (Manual Tuning) .....	35
- Channel Editing .....	36
Input List .....	37
Input Label .....	38
Key Lock .....	39

## PICTURE CONTROL

Picture Size (Aspect Ratio) Control .....	40
Preset Picture Settings .....	41
- Picture Mode - Preset .....	41
- Color Tone - Preset .....	42
Manual Picture Adjustment .....	43
- Picture Mode - User Mode .....	43
- Color Tone - User Mode .....	44
DB - Picture Improvement Technology .....	45
Advanced - Cinema 3:2 Pulldown Mode .....	46
Advanced - Black (Darkness) Level .....	47
Picture Reset .....	48

## SOUND & LANGUAGE CONTROL

Auto Volume Leveler (Auto Volume) .....	49
Preset Sound Settings (Sound Mode) .....	50
Sound Setting Adjustment - User Mode .....	51
Balance .....	52
TV Speakers On/Off Setup .....	53
Stereo/SAP Broadcasts Setup .....	54
Audio Language .....	55
On-Screen Menus Language Selection .....	56
Caption Mode .....	57
- Analog Broadcasting System Captions .....	58
- Digital Broadcasting System Captions .....	59
- Caption Option .....	60

## TIME SETTING

Clock Setting .....	61
- Auto Clock Setup .....	61
- Manual Clock Setup .....	62
Auto On/Off Timer Setting .....	63
Sleep Timer Setting .....	64
Auto Shut-off Setting .....	65

## PARENTAL CONTROL / RATINGS

Set Password & Lock System .....	66
Channel Blocking .....	68
External Input Blocking .....	68
Movie & TV Rating .....	69

## APPENDIX

Troubleshooting .....	72
Maintenance .....	74
Product Specifications .....	75
Programming the Remote Control .....	76
IR Codes .....	80
External Control Through RS-232C .....	82
Open Source Software License .....	89

# FEATURE OF THIS TV



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



LG TV with this logo displays Full HD (high-definition) 1080p native resolution by receiving and processing a Full HD 1080p signal.



It has three HDMI ports that connect audio and video devices with one cable and produces the highest quality digital images and sound.



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



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.

- 
- If the TV feels cold to the touch, there may be a small "flicker" when it is turned on. This is normal, there is nothing wrong with TV.
  - Some minute dot defects may be visible on the screen, appearing as tiny red, green, or blue spots. However, they have no adverse effect on the monitor's performance.
  - Avoid touching the LCD screen or holding your finger(s) against it for long periods of time. Doing so may produce some temporary distortion effects on the screen.

## On Disposal

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



Remote Control



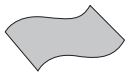
Power Cord



Batteries



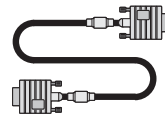
Cable Management Clip



Polishing Cloth

- \* Wipe spots on the exterior only with the polishing cloth.
- \* Do not wipe roughly when removing stain. Please be cautious of that excessive pressure may cause scratch or discoloration.

### Option Extras



D-sub 15 pin Cable

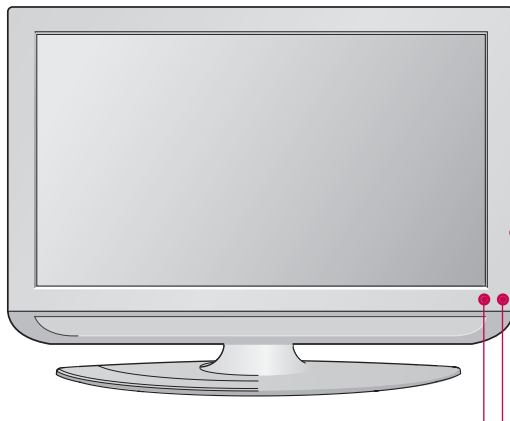
When using the VGA (D-sub 15 pin cable) PC connection, the user must use shielded signal interface cables with ferrite cores to maintain standards compliance.

# PREPARATION

## FRONT PANEL INFORMATION

- Here shown may be somewhat different from your TV.
- **NOTE:** If your product has a protection tape attached, remove the tape. And then wipe the product with a cloth (If a polishing cloth is included with your product, use it).

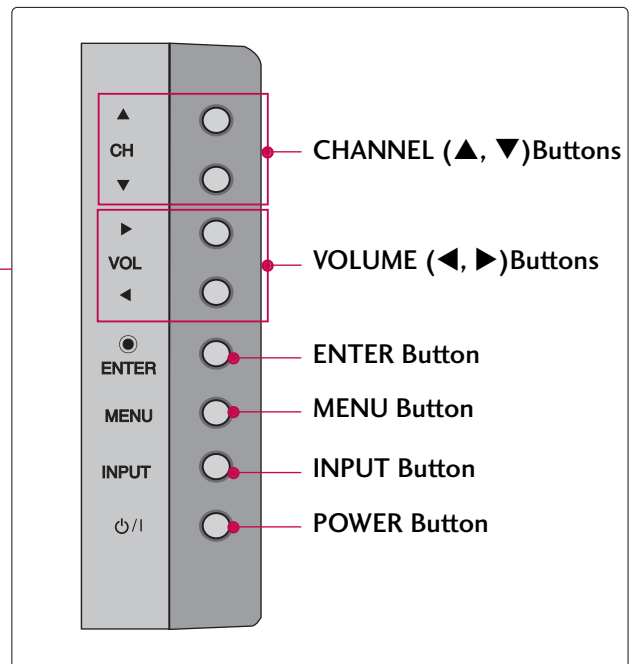
PREPARATION



### Power/Standby Indicator

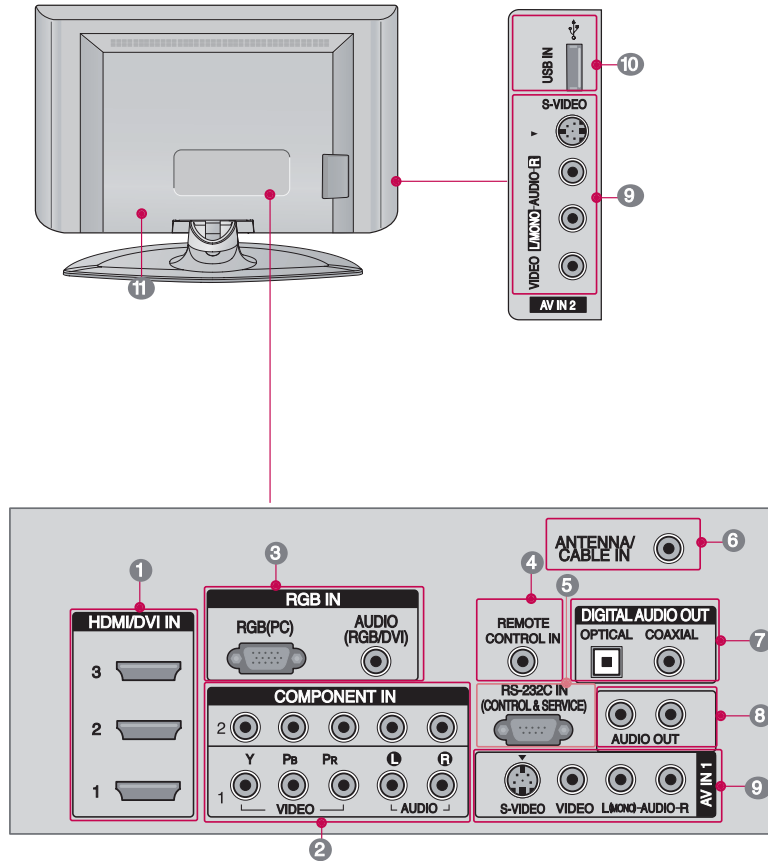
- Illuminates red in standby mode.
- Illuminates green when the set is switched on.

Remote Control Sensor



# BACK PANEL INFORMATION

■ Here shown may be somewhat different from your TV.



# PREPARATION

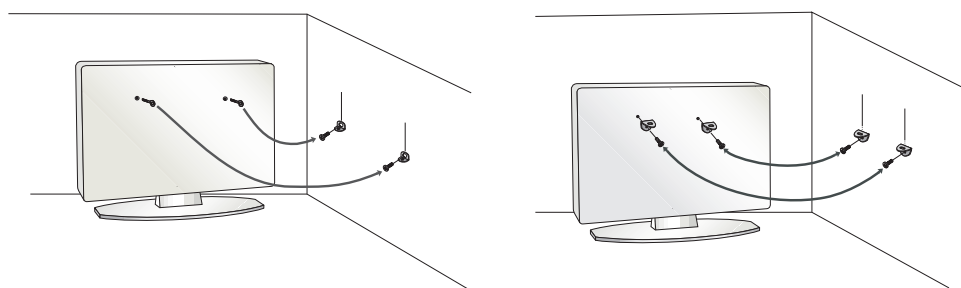
- ① **HDMI/DVI IN**  
Connect a HDMI signal to 1, 2 or 3.  
Or DVI (VIDEO) signal to the 1, 2 or 3 port with a DVI to HDMI cable.
- ② **COMPONENT IN**  
Analog Connection.  
Supports HD.  
Uses a red, green, and blue cable for video & red and white for audio.
- ③ **RGB (PC)**  
Analog PC Connection. Uses a D-sub 15 pin cable (VGA cable).  
**AUDIO (RGB/DVI)**  
1/8" headphone jack for analog PC audio input.
- ④ **REMOTE CONTROL PORT**  
For a wired remote control.
- ⑤ **RS-232C IN (CONTROL & SERVICE) PORT**  
Used by third party devices.
- ⑥ **ANTENNA/CABLE IN**  
Connect over-the air signals to this jack.  
Connect cable signals to this jack.
- ⑦ **DIGITAL AUDIO OUT**  
Connect digital audio to various types of equipment.  
Note: In standby mode, these ports do not work.
- ⑧ **AUDIO OUT**  
Analog audio output for use with amps and home theater systems.
- ⑨ **AV (Audio/Video) IN**  
Analog composite connection. Supports standard definition video only (480i).  
**S -VIDEO**  
Better quality than standard composition.  
Supports standard definition video only (480i).
- ⑩ **USB INPUT**
- ⑪ **Power Cord Socket**  
For operation with AC power.  
Caution: Never attempt to operate the TV on DC power.

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

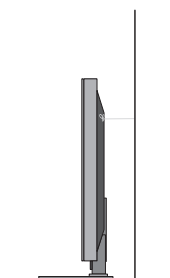
- You should purchase necessary components to prevent TV from falling off of the stand.
- Image shown may differ from your TV.

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

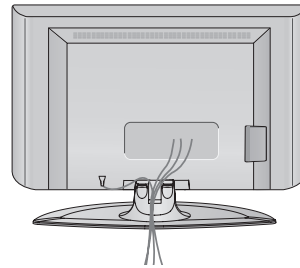
- ▶ Use a platform or cabinet strong enough and large enough to support the size and weight of the TV.
- ▶ To use the TV safely make sure that the height of the bracket on the wall and the one on the TV are the same.

# PREPARATION

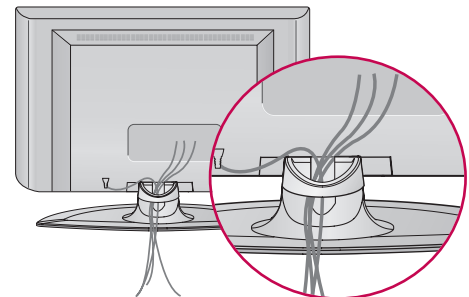
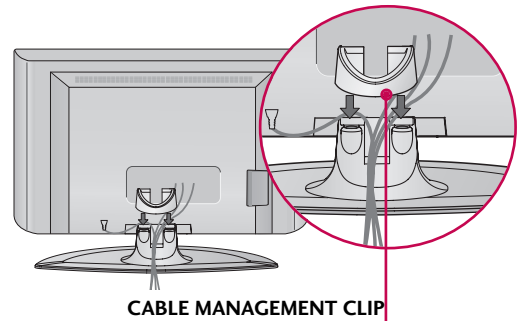
## CABLE MANAGEMENT

■ Here shown may be somewhat different from your TV.

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



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

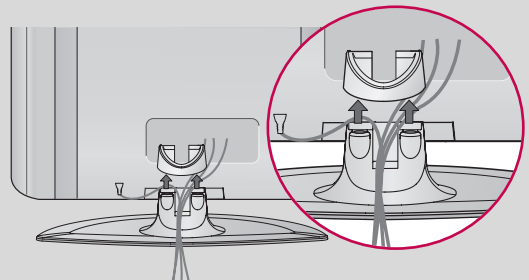


### ! NOTE

- ▶ Do not hold the **CABLE MANAGEMENT CLIP** when moving the product.
- If the product is dropped, you may be injured or the product may be broken.

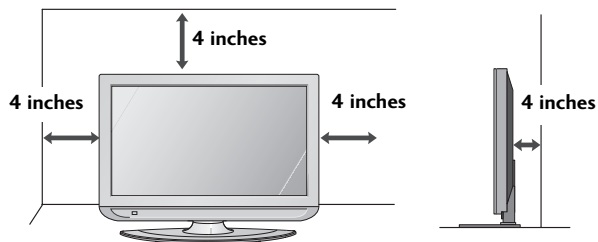
### How to remove the **CABLE MANAGEMENT CLIP**

- ▶ Hold the **CABLE MANAGEMENT CLIP** with both hands and pull it backward.



## DESKTOP PEDESTAL INSTALLATION

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

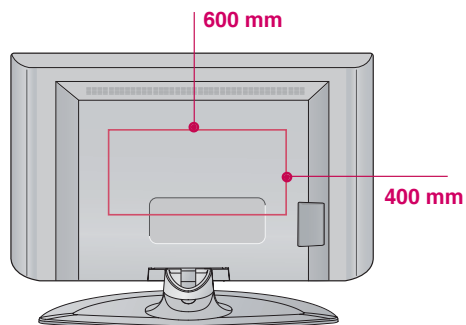


### ⚠ CAUTION

▶ Ensure adequate ventilation by following the clearance recommendations.

## VESA WALL MOUNTING

This TV accepts VESA FDMI compliant mounts via the four screw holes on the back of the TV. We recommend that you use a wall mounting bracket of LG brand when mounting the TV to a wall.



### ⓘ NOTE

▶ Screw length needed depends on the wall mount used. For further information, refer to the instructions included with the mount.

# PREPARATION

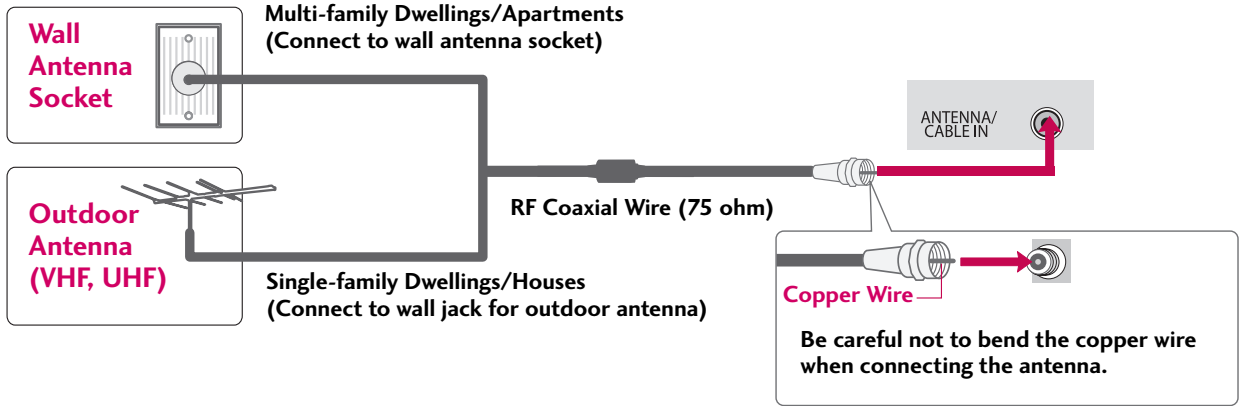
## ANTENNA OR CABLE CONNECTION

- To prevent damage do not connect to the power outlet until all connections are made between the devices.

### 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.



# EXTERNAL EQUIPMENT SETUP

- To prevent the equipment damage, never plug in any power cords until you have finished connecting all equipment.

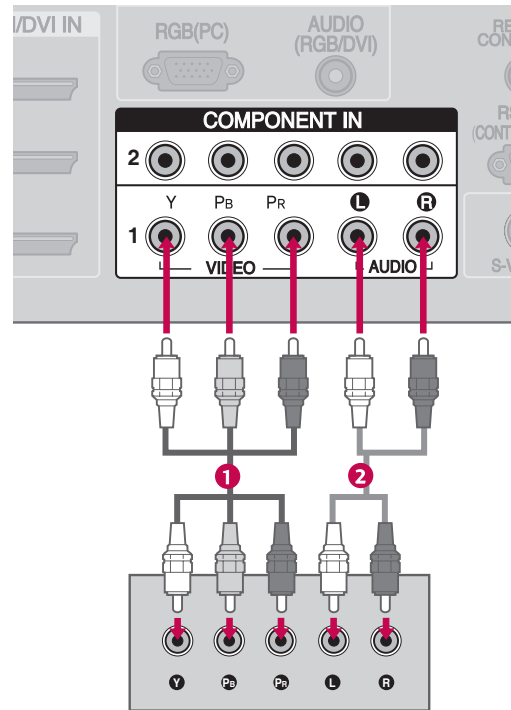
## HD RECEIVER SETUP

This TV can receive Digital Over-the-air/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, refer to the figure as shown below.

### Component Connection

#### 1. How to connect

- 1 Connect the video outputs (Y, PB, PR) of the digital set top box to the **COMPONENT IN VIDEO 1** jacks on the set. 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** jacks on the TV.



#### 2. How to use

- Turn on the digital set-top box.  
(Refer to the owner's manual for the digital set-top box operation)
- Select the **Component 1** input source on the TV using the **INPUT** button on the remote control.
- If connected to **COMPONENT IN 2** input, select the **Component 2** input source on the TV.

#### Supported Resolutions

Signal	Component 1/2	HDMI1, 2 or 3
480i	Yes	No
480p	Yes	Yes
720p	Yes	Yes
1080i	Yes	Yes
1080p	Yes	Yes

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

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
720x480i	15.73	59.94
	15.73	60.00
720x480p	31.47	59.94
	31.50	60.00
1280x720p	44.96	59.94
	45.00	60.00
1920x1080i	33.72	59.94
	33.75	60.00
1920x1080p	26.97	23.976
	27.00	24.00
	33.71	29.97
	33.75	30.00
	67.432	59.939
	67.50	60.00

# EXTERNAL EQUIPMENT SETUP

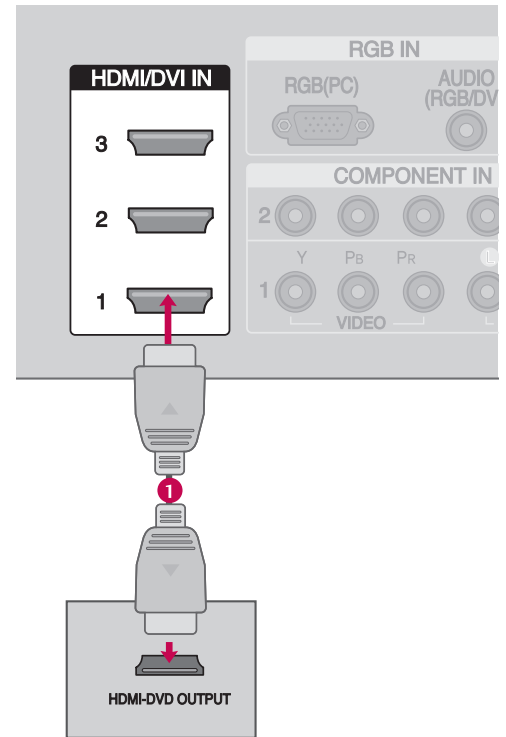
## HDMI Connection

### 1. How to connect

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

### 2. How to use

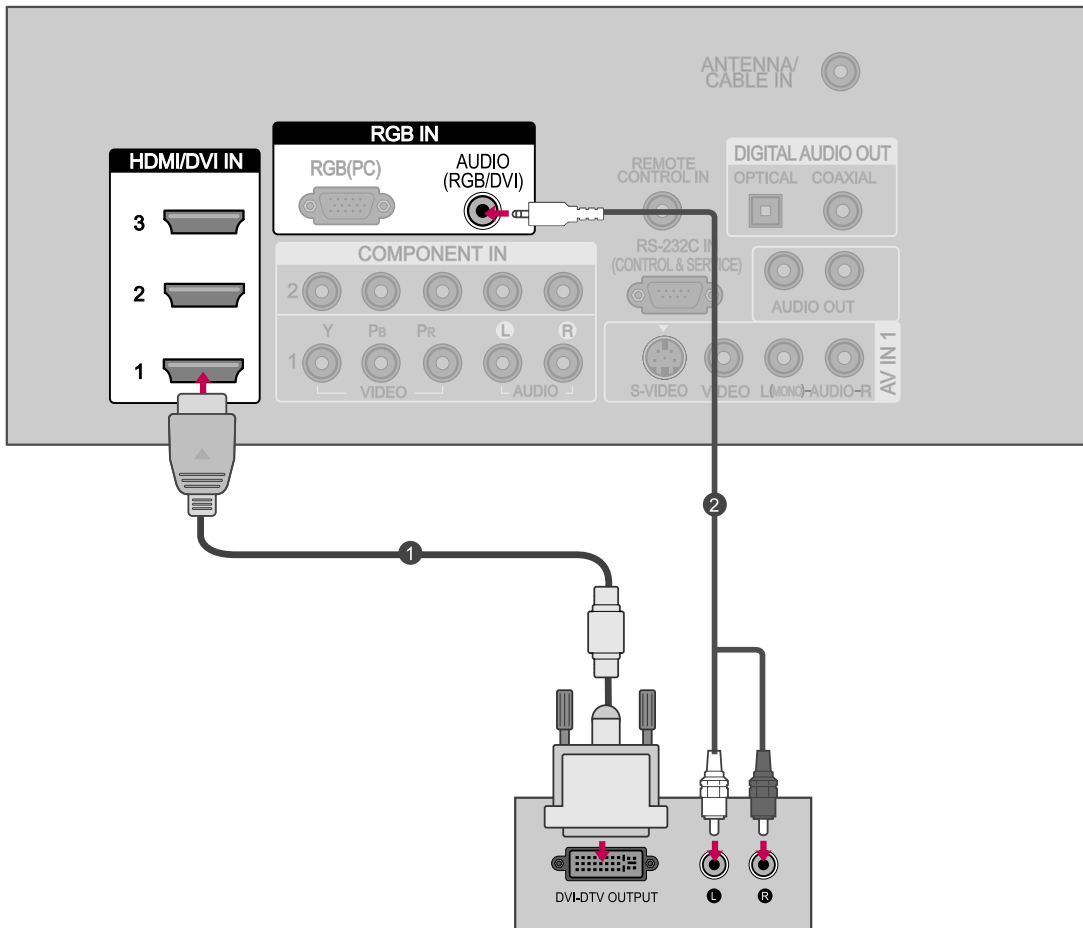
- Turn on the digital set-top box.  
(Refer to the owner's manual for the digital set-top box.)
- Select the **HDMI1**, **HDMI2** or **HDMI3** input source on the TV using the **INPUT** button on the remote control.



#### HDMI-DTV mode

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
720x480p	31.47	59.94
	31.50	60.00
1280x720p	44.96	59.94
	45.00	60.00
1920x1080i	33.72	59.94
	33.75	60.00
1920x1080p	26.97	23.976
	27.00	24.00
	33.71	29.97
	33.75	30.00
	67.432	59.939
67.50	60.00	

## DVI to HDMI Connection



### 1. How to connect

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

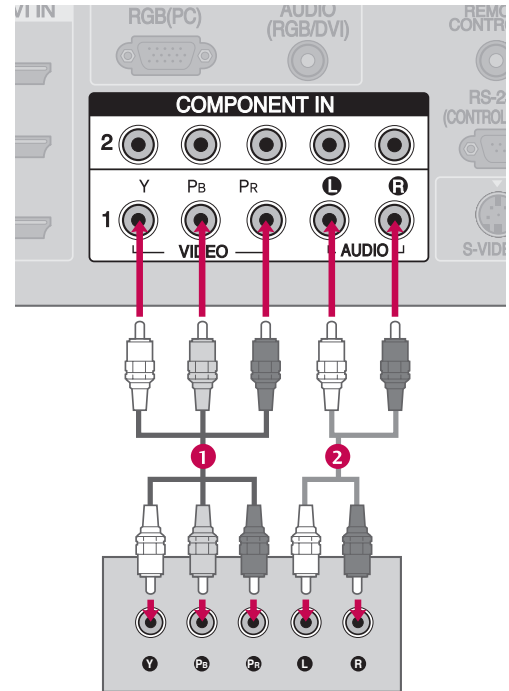
# EXTERNAL EQUIPMENT SETUP

## DVD SETUP

### Component Connection

#### 1. How to connect

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



#### 2. How to use

- Turn on the DVD player, insert a DVD.
- Select the **Component 1** input source on the TV using the **INPUT** button on the remote control.
- If connected to **COMPONENT IN 2** input, select the **Component 2** input source on the TV.
- 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	PB	PR
Video output ports on DVD player	Y	PB	PR
	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	Pb	Pr

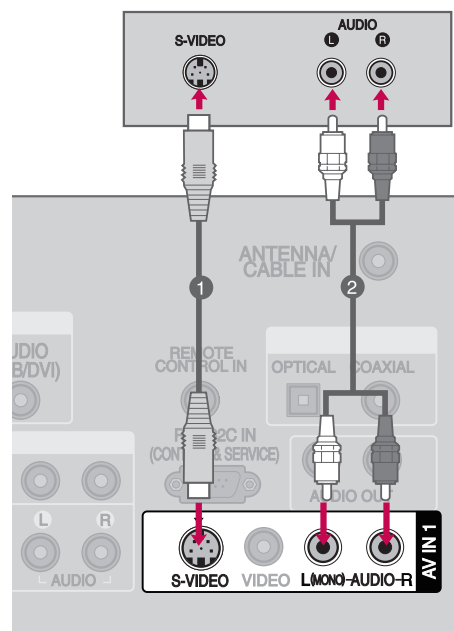
## S-Video Connection

### 1. How to connect

- 1 Connect the S-VIDEO output of the DVD to the **S-VIDEO** input on the TV.
- 2 Connect the audio outputs of the DVD to the **AUDIO** input jacks on the TV.

### 2. How to use

- Turn on the DVD player, insert a DVD.
- Select the **AV 1** input source on the TV using the **INPUT** button on the remote control.
- If connected to **AV IN2**, select **AV 2** input source.
- Refer to the DVD player's manual for operating instructions.



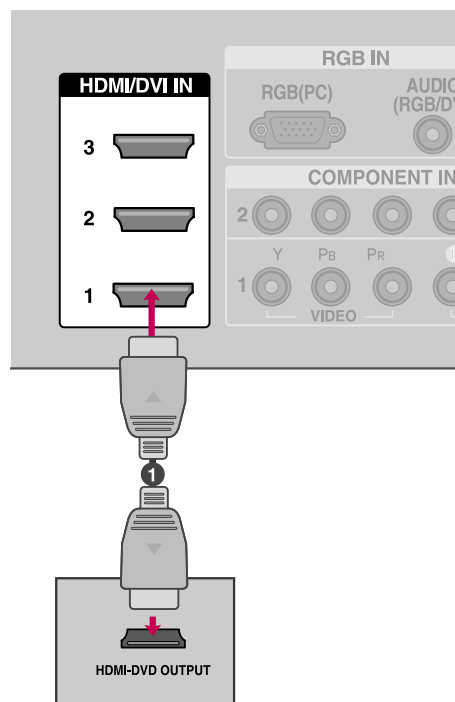
## HDMI Connection

### 1. How to connect

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

### 2. How to use

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

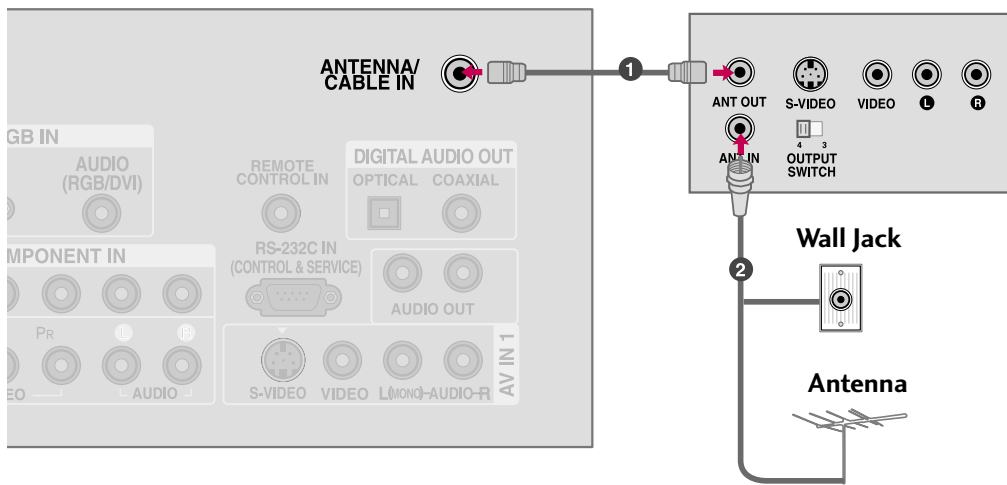


# EXTERNAL EQUIPMENT SETUP

## VCR SETUP

- To avoid picture noise (interference), leave an adequate distance between the VCR and TV.
- If the 4:3 picture format is used; the fixed images on the sides of the screen may remain visible on the screen. This phenomenon is common to all TVs and is not covered by warranty.

## Antenna Connection



### 1. How to connect

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

### 2. How to use

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

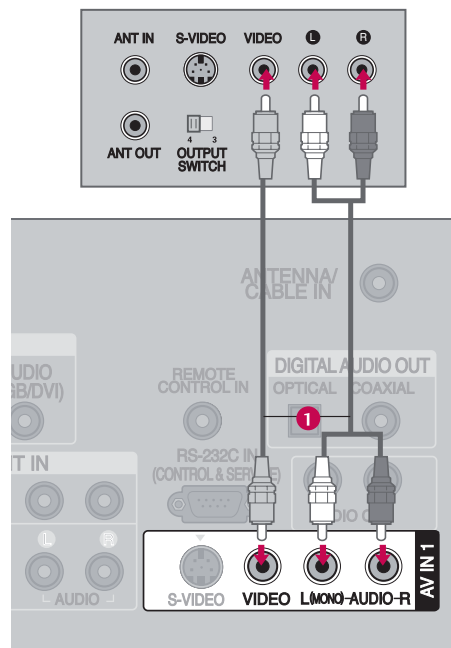
## Composite (RCA) Connection

### 1. How to connect

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

### 2. How to use

- Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
- Select the **AV 1** input source on the TV using the **INPUT** button on the remote control.
- If connected to **AV IN2**, select **AV 2** input source.



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

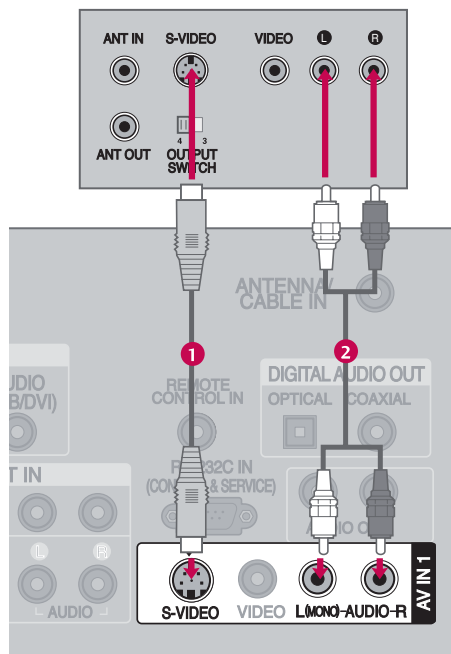
## S-Video Connection

### 1. How to connect

- 1 Connect the S-VIDEO output of the VCR to the **S-VIDEO** input on the TV.
- 2 Connect the audio outputs of the VCR to the **AUDIO** input jacks on the TV.

### 2. How to use

- Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
- Select the **AV 1** input source on the TV using the **INPUT** button on the remote control.
- If connected to **AV IN2**, select **AV 2** input source.



**NOTE**

- ▶ S-Video provides better quality than composite. Use it when available.

**CAUTION**

- ▶ Do not connect to both Video and S-Video at the same time. In the event that you connect both Video and the S-Video cables, only the S-Video will work.

# EXTERNAL EQUIPMENT SETUP

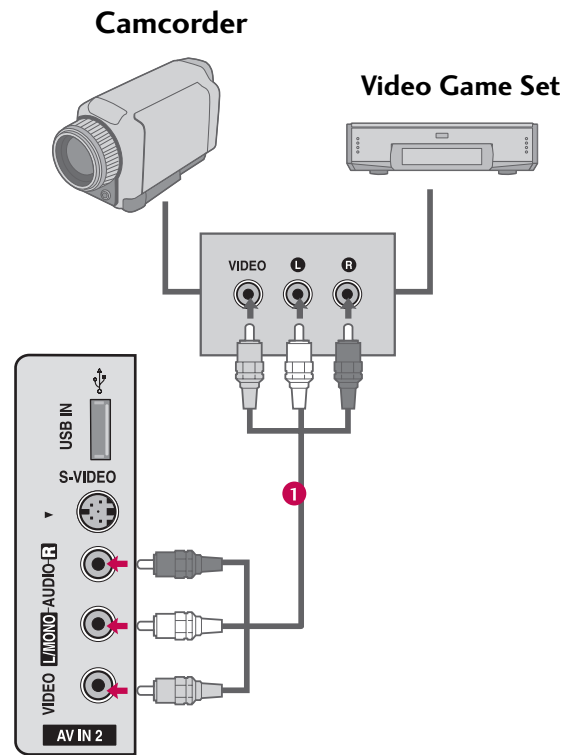
## OTHER A/V SOURCE SETUP

### 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 **AV 2** input source on the TV using the **INPUT** button on the remote control.
- If connected to **AV IN1** input, select **AV 1** input source.
- Operate the corresponding external equipment.





# PC SETUP

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

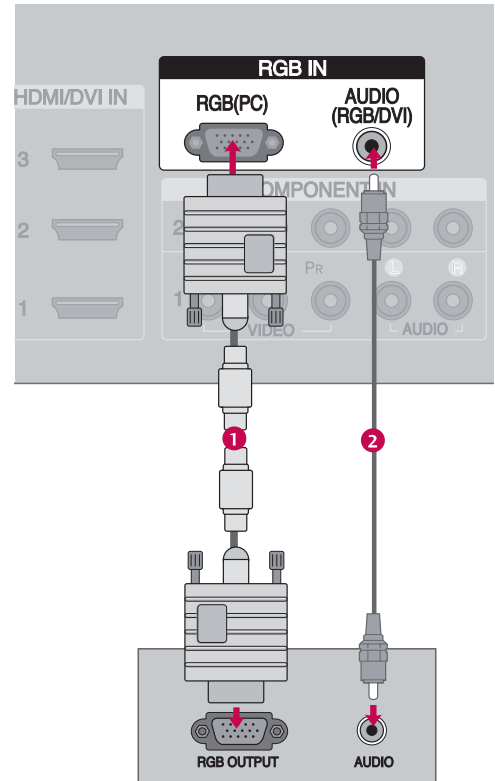
## VGA (D-Sub 15 pin) Connection

### 1. How to connect

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

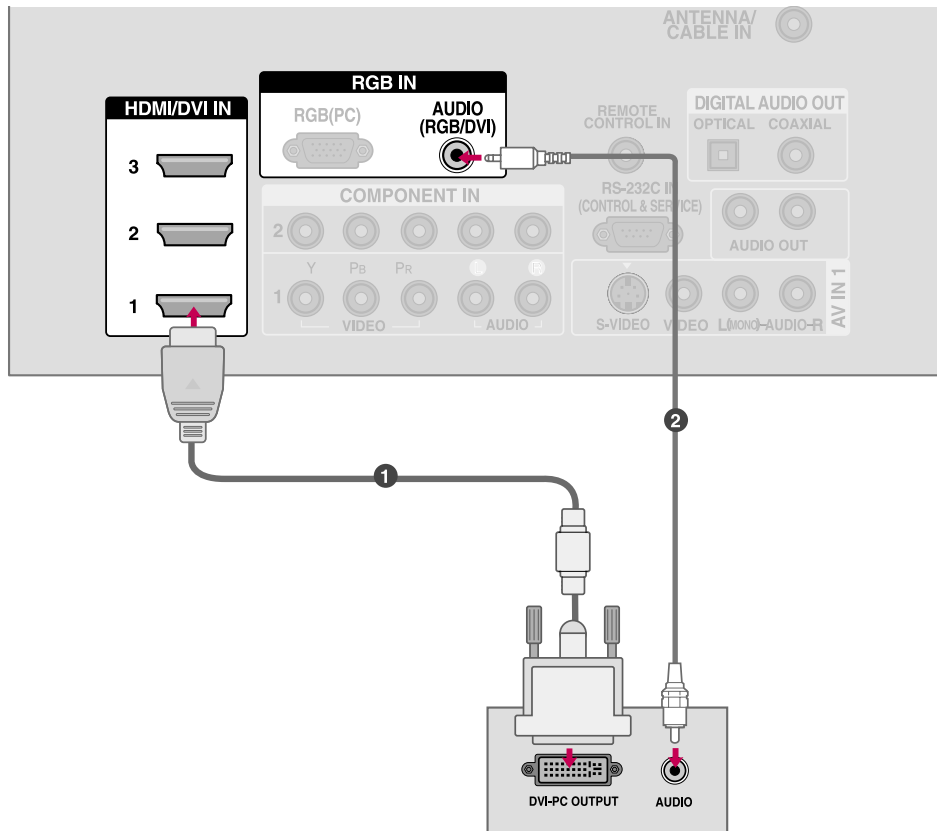
### 2. How to use

- 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 (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.

**! NOTES**

- ▶ To get the the best picture quality, adjust the PC graphics card to 1920x1080.
- ▶ Depending on the graphics card, DOS mode may not work if a HDMI to DVI Cable is in use.
- ▶ In PC mode, there may be noise associated with the resolution, vertical pattern, contrast or brightness. If noise is present, change the PC output to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on the PICTURE menu until the picture is clear.
- ▶ Avoid keeping a fixed image on the screen for a long period of time. The fixed image could 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.

## Supported Display Specifications

RGB-PC, HDMI-PC mode

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
640x350	31.468	70.09
720x400	31.469	70.08
640x480	31.469 37.500 37.861	59.94 75.00 72.80
800x600	35.156 37.879 46.875 48.077	56.25 60.31 75.00 72.18
1024x768	48.363 56.476 60.023	60.00 70.06 75.02
1280x768	47.776 60.289	59.87 74.893
1280x1024	63.981 79.976	60.02 75.025
1360x768	47.712	60.015
1600x1200	75.00	60.00
1920x1080	67.50	60.00

\* RGB-PC mode only

**! NOTE**

- ▶ Depending on graphic card and signal status, there can be some shaking to find best picture in a little time.

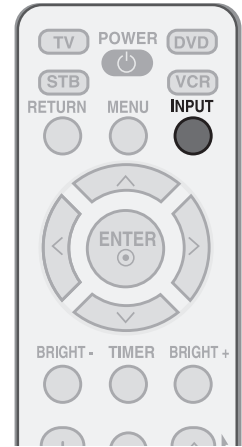
# EXTERNAL EQUIPMENT SETUP

## Screen Setup for PC mode

### Overview

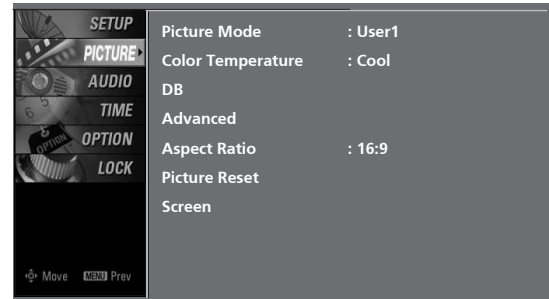
When the RGB input of the set is connected to a PC Output, Select RGB-PC using the **INPUT** button on the remote control.

When you change the resolution, select the proper resolution in present input to see the best picture appearance.

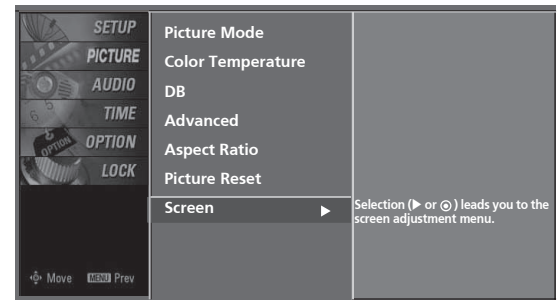


### Adjustment for screen Resolution, Position, Size, and Phase

- 1 Press the **MENU** button and then use  $\wedge$  or  $\vee$  button to select the **PICTURE** menu.
- 2 Press the  $\triangleright$  button and then use  $\wedge$  or  $\vee$  button to select **Screen**.
- 3 Press the  $\triangleright$  button and then use  $\wedge$  or  $\vee$  button to select **Resolution, Position, Size, or Phase**.
- 4 Press the **ENTER** button and then use  $\wedge$   $\vee$   $\triangleleft$   $\triangleright$  button to make appropriate adjustments.
  - The **Phase** adjustment range is **-16 ~ +16**.
  - The **Size** adjustment range is **-30 ~ +30**.
- 5 Press **RETURN** button to return to normal viewing or press **MENU** button to return to the previous menu.

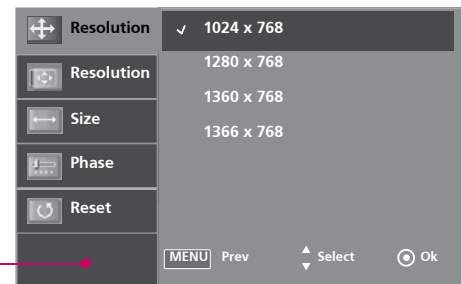


1



2

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

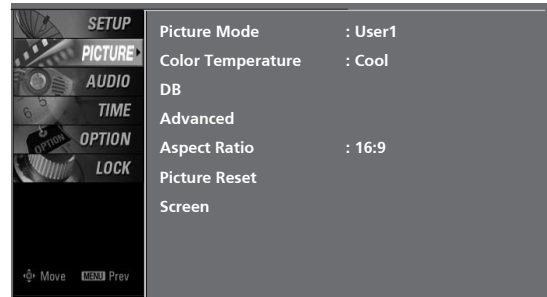


3 4

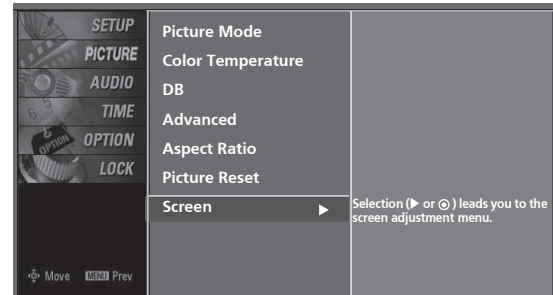
## Initializing (Reset to original factory values)

To initialize the adjusted values.

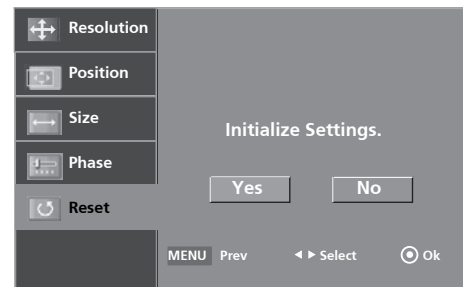
- 1 Press the **MENU** button and then use  $\wedge$  or  $\vee$  button to select the **PICTURE** menu.
- 2 Press the  $\triangleright$  button and then use  $\wedge$  or  $\vee$  button to select **Screen**.
- 3 Press the  $\triangleright$  button and then use  $\wedge$  or  $\vee$  button to select **Reset**.
- 4 Press the **ENTER** button and then use  $\leftarrow$  or  $\rightarrow$  button to select **Yes**.
- 5 Press the **ENTER** button.



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# EXTERNAL EQUIPMENT SETUP

## AUDIO OUT CONNECTION

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

### Analog

#### 1. How to connect

- 1 Connect audio outputs to the TV's **AUDIO OUT** jacks.
- 2 Set the "TV Speaker option - Off" in the AUDIO menu. (▶p.53). See the external audio equipment instruction manual for operation.

