

User's Guide Specification

| | |
|---------------------|-------------------------------|
| 담당 | 관리자 |
| Park SY 08.01.21 | KANG KWANG SUK 08.01.21 |

1. Model Description

| | | | | | |
|--------|---------------|--------------|------------|----------|-----------------------------|
| MODEL | PG10/20/30-UA | BRAND | LG | Part No. | MFL34797073 (0804-REV02) |
| SUFFIX | USA | Product Name | PG10/20/30 | | |

2. Printing Specification

1. Trim Size (Format) : 185mm x 260 mm
2. Printing Colors
 - Cover : 1 COLOR (BLACK)
 - Inside : 1 COLOR (BLACK)
3. Stock (Paper)
 - Cover : Coated paper , S/White 150 g/m²
 - Inside : Uncoated paper , 백상지 60 g/m²
4. Printing Method : Off set
5. Bindery : Saddle stitch
6. Language : English (1)
7. Number of pages : 32

NOTES

"This part contain Eco-hazardous substances (Pb, Cd, Hg, Cr6+, PBB, PBDE, etc.) within LG standard level, Details should be followed Eco-SCM management standard[LG(56)-A-2524]. Especially, Part should be followed and controlled the following specification.
 (1)Eco-hazardous substances test report should be submitted when Part certification test and First Mass Production.
 (2) Especially, Don't use or contain lead(Pb) and cadmium(Cd) in ink.

3. Special Instructions

(1) Origin Notification

- | | | | |
|-----------------------------|--------------------------------|---------------------------------|-------------------------------|
| * LGEMX : Printed in Mexico | * LGENT : Printed in China | * LGEMA : Printed in Poland | * LGETH : Printed in Thailand |
| * LGERS : Printed in Mexico | * LGENP : Printed in China | * LGEWA : Printed in U.K. | * LGEVN : Printed in Vietnam |
| * LGEAZ : Printed in Brazil | * LGEIL : Printed in India | * LGEEG : Printed in Egypt | |
| * LGESP : Printed in Brazil | * LGEDI : Printed in Indonesia | * LGERA : Printed in Russia | |
| * LGESY : Printed in China | * LGEIN : Printed in Indonesia | * LGEAK : Printed in Kazakhstan | |

4. Changes

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| 9 | | | | |
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| 3 | | | | |
| 2 | Apr./16/08 | Park sun young | S8-17189 | Applied 50/60PG30F PQ test results. |
| 1 | Feb./04/08 | Park sun young | S8-08803 | Added "Initial setting" function and deleted RF cable. |
| REV. NO. | MM/DD/YY | SIGNATURE | CHANGE NO. | CHANGE CONTENTS |

Pagination sheet

P/NO. [MFL34797073](#)

Total pages : 32 pages

Front cover

| |
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| LG(EN) |
| P/NO. |

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Rear cover

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| Child Safety |
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PLASMA TV OWNER'S MANUAL

| | |
|---------|---------|
| 42PG10 | 50PG10 |
| 42PG20 | 50PG20 |
| 42PG20C | 50PG20C |
| 50PG30 | 60PG30 |
| 50PG30C | 60PG30C |

Please read this manual carefully before operating your set.

Retain it for future reference.

Record model number and serial number of the set.

See the label attached on the back cover and quote this information to your dealer when you require service.

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



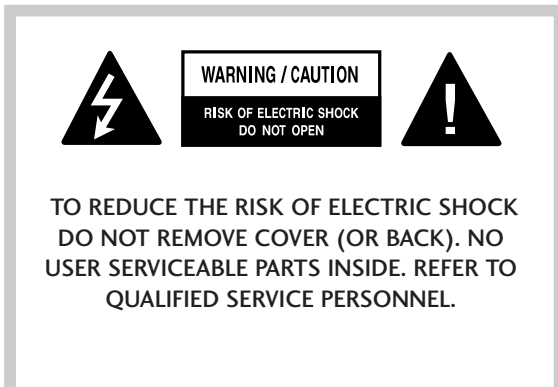
As an ENERGY STAR Partner LGE U. S. A., Inc. has determined that this product meets the ENERGY STAR guidelines for energy efficiency.


An extended owner's manual that contains information on the advanced features of these LG TV sets is located on the CD-ROM provided in an electronic version.


To read these files, you will need to use personal computer (PC) equipped with a CD-ROM drive.

P/NO : MFL34797073 (0804-REV02)
Printed in Korea

WARNING / CAUTION



 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

Important safety instructions shall be provided with each apparatus. This information shall be given in a separate booklet or sheet, or be located before any operating instructions in an instruction for installation for use and supplied with the apparatus.

This information shall be given in a language acceptable to the country where the apparatus is intended to be used. The important safety instructions shall be entitled "Important Safety Instructions". The following safety instructions shall be included where applicable, and, when used, shall be verbatim as follows. Additional safety information may be included by adding statements after the end of the following safety instruction list. At the manufacturer's option, a picture or drawing that illustrates the intent of a specific safety instruction may be placed immediately adjacent to that safety instruction:

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

- 6** 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.



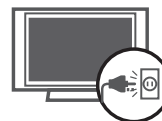
- 7** Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.



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



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



SAFETY INSTRUCTIONS

- 10** 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.



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

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

- 13** 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 exposed to rain or moisture, does not operate normally, or has been dropped.



- 14** CAUTION concerning the Power Cord : Most appliances recommend they 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 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.



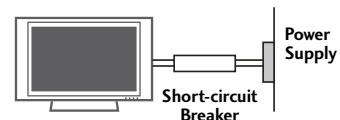
- 15** Outdoor use marking :
WARNING - To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.



- 16** Wet Location Marking : Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on or over apparatus.



- 17** GROUNDING
Ensure that you connect the earth ground wire to prevent possible electric shock. 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.

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HOW TO USE THE OWNER'S MANUAL ON THE CD-ROM

To view the Owner's Manual on the CD-ROM, Adobe Acrobat Reader must be installed on your PC.

The "ACRORD" folder on the CD-ROM contains the installation programs for them.

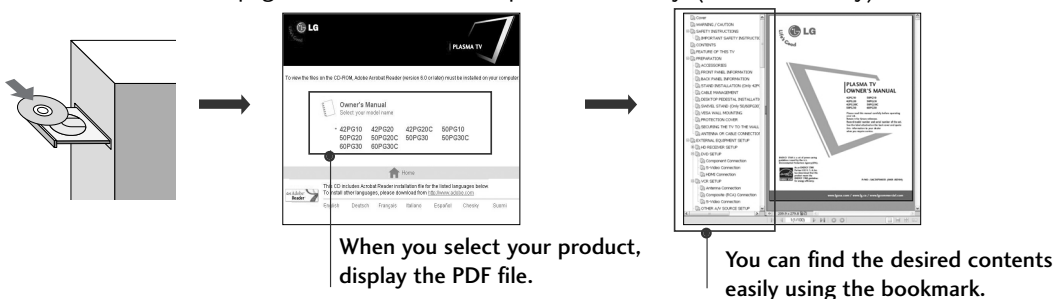
If you want to install those programs, Open the "My Computer" → Open the "LG" → Open the "ACRORD" → double-click your language.

TO VIEW THE OWNER'S MANUAL ON THE CD-ROM

The Owner's Manual files are included in the supplied CD-ROM.

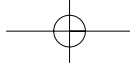
Load the supplied CD-ROM into the CD-ROM drive of your PC.

After a while, the web page of the CD-ROM will open automatically. (for Window only)



! NOTE

▶ If the web page does not appear automatically, open the Owner's Manual file directly. Open the "My computer" → Open the "LG" → Open the "index.htm" file.



PREPARATION

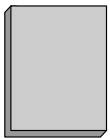
ACCESSORIES

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

The accessories included may differ from the images below.

For further information, see the the Owner's Manual files supplied CD-ROM.

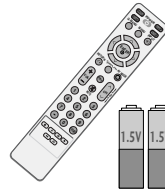
PREPARATION



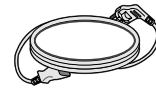
Owner's Manual



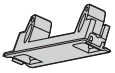
CD Manual
(Refer to P.5)



Remote Control,
Batteries



Power Cord



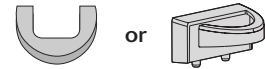
Protection Cover
(Refer to P.9)



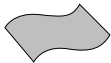
Bolts for stand assembly
(Refer to P.9)
(Only 42PG10/20/20C)



Cable Holder
42PG10/20/20C: 1 EA,
Other models: 2EA



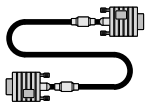
Cable Management Clip



Polishing Cloth
(This feature is not available
for all models.)

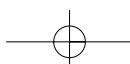
- * Wipe spots on the exterior only with the polishing cloth.
- * Do not wipe roughly when removing stain. Please be cautions of that excessive pressure may cause scratch or discoloration.

Option Extras



D-sub 15 pin Cable

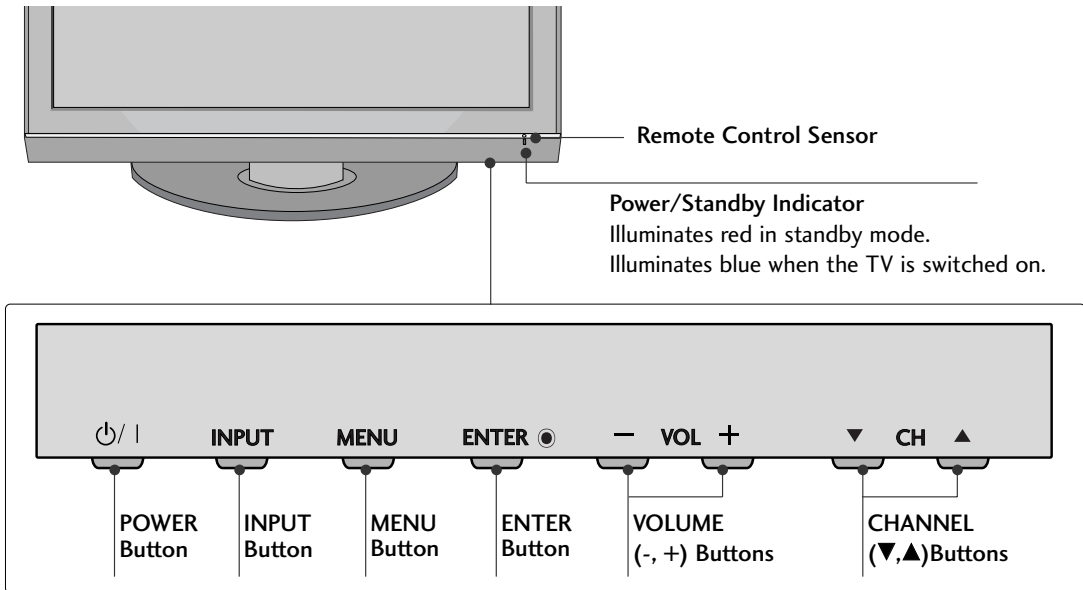
When using the VGA (D-sub 15 pin cable) PC connection, the user must use shielded signal interface cables with ferrite cores to maintain standards compliance.



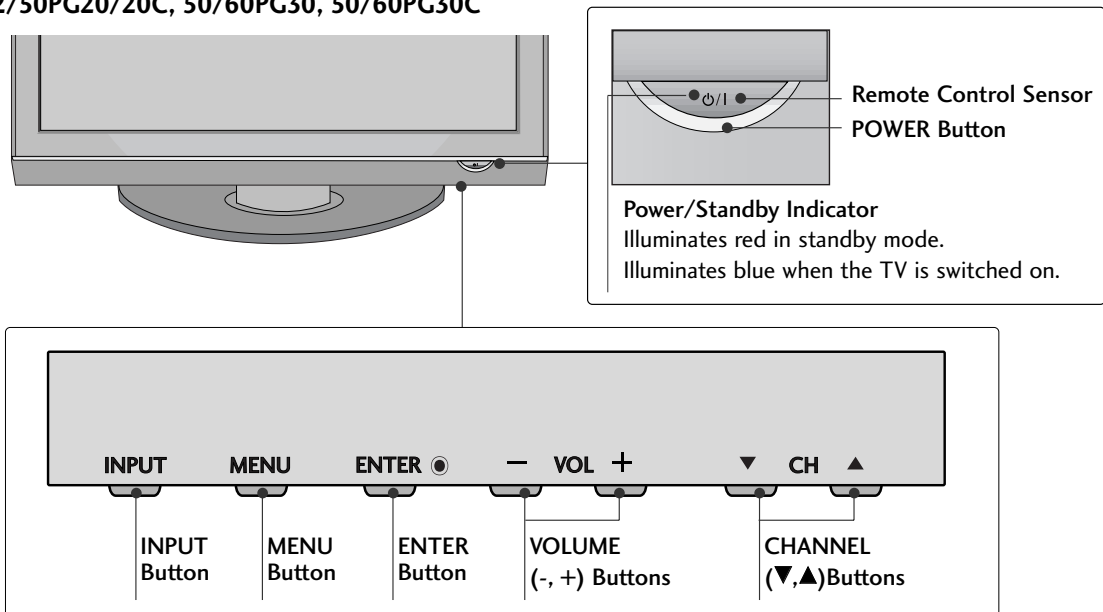
FRONT PANEL INFORMATION

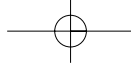
- Image shown may differ from your TV.
- NOTE:** If your TV has a protection tape attached, remove the tape. And then wipe the TV with a cloth (If a polishing cloth is included with your TV, use it).

42/50PG10



42/50PG20/20C, 50/60PG30, 50/60PG30C



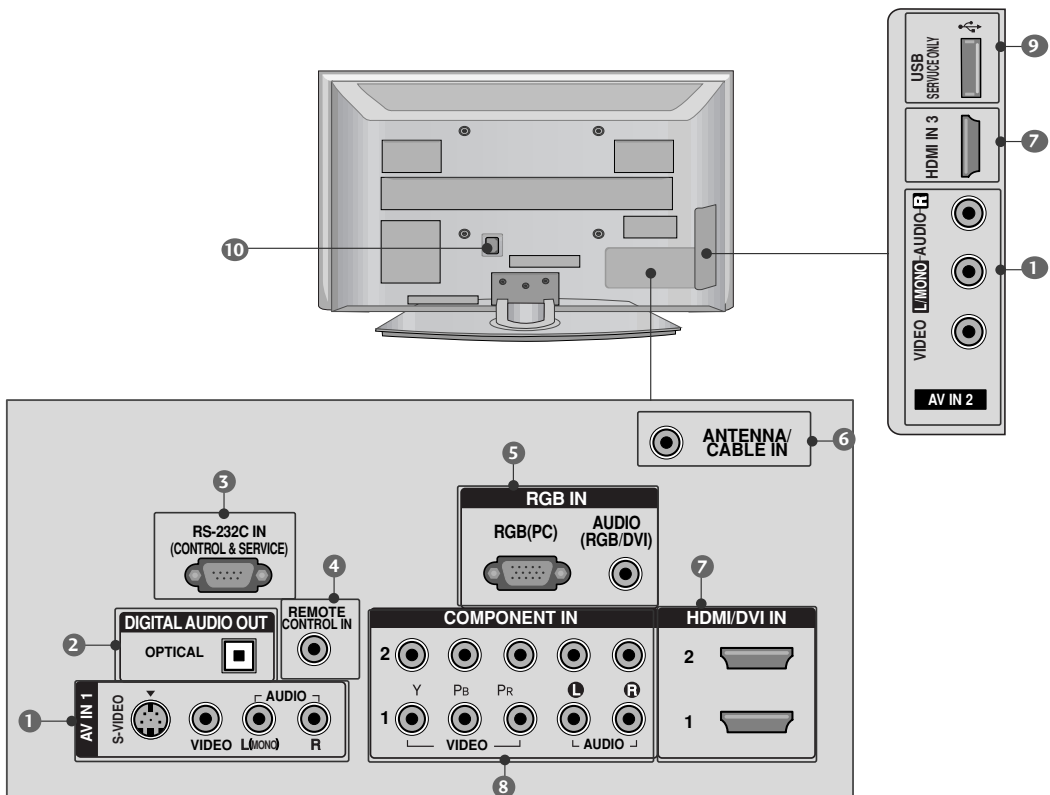


PREPARATION

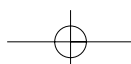
BACK PANEL INFORMATION

- Image shown may differ from your TV.

PREPARATION



- 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).
- DIGITAL AUDIO OUT**
Digital audio output for use with amps and home theater systems.
Includes an optical connection.
Note: In standby mode, this port do not work.
- RS-232C IN (CONTROL & SERVICE) PORT**
Used by third party devices.
- REMOTE CONTROL PORT**
For a wired remote control.
- 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.
- ANTENNA/CABLE IN**
Connect over-the air signals to this jack.
Connect cable signals to this jack.
- 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)
- COMPONENT IN**
Analog Connection. Supports HD.
Uses a red, green, and blue cable for video & red and white for audio.
- USB SERVICE ONLY**
Used for software updates.
- Power Cord Socket**
For operation with AC power.
Caution: Never attempt to operate the TV on DC power.



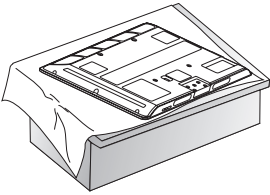
STAND INSTRUCTION

■ Image shown may differ from your TV.

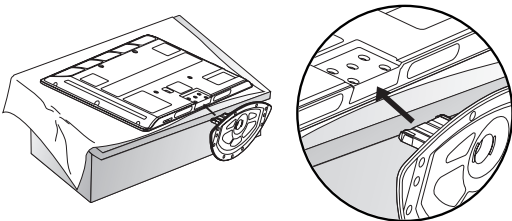
Installation

Only 42PG10/20/20C

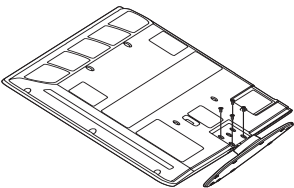
- 1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



- 2 Assemble the TV as shown.



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

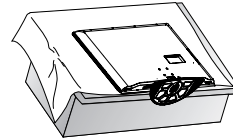


NOTE

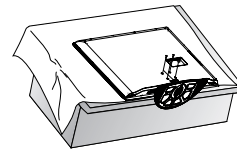
- ▶ When assembling the desk type stand, check whether the bolt is fully tightened. (If not tightened fully, the product can tilt forward after the product installation). If you tighten the bolt with excessive force, the bolt can deviate from abrasion of the tightening part of the bolt.

Detachment

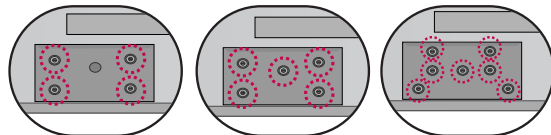
- 1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



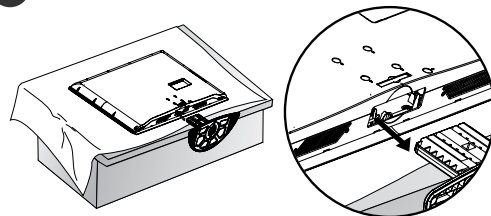
- 2 Loosen the bolts from TV.



42PG10/20/20C 50PG10/20/20C 60PG30/30C
/30/30C

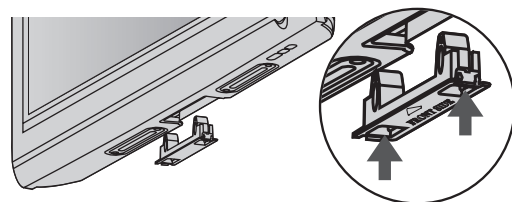


- 3 Detach the stand from TV.



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.



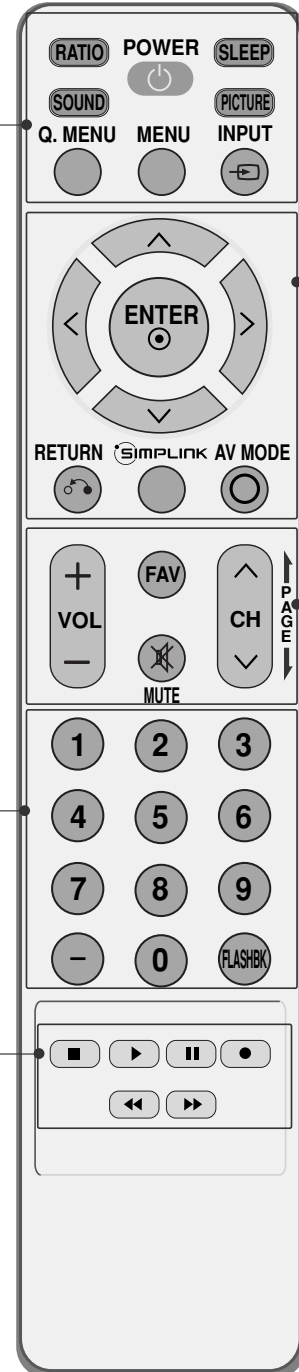
PREPARATION

REMOTE CONTROL FUNCTIONS

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

PREPARATION

| | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>RATIO Change the aspect ratio.</p> <p>SLEEP Select the amount of time before your TV turns off automatically.</p> <p>PICTURE Selects the factory preset picture depend on the viewing environment.</p> <p>SOUND Selects the factory preset sound for type of program.</p> <p>POWER Turns your TV on or off.</p> <p>Q.MENU Select the desired quick menu source.</p> <p>MENU Displays the main menu. Clear all on-screen displays and return to TV viewing from any menu.</p> <p>INPUT External input modes rotate in regular sequence.</p> | <p>NUMBER button</p> <p>— (DASH) Used to enter a program number for multiple program channels such as 2-1, 2-2, etc.</p> <p>FLASHBK Tune to the last channel viewed.</p> | <p>VCR/DVD, SIMPLINK Control buttons</p> <ul style="list-style-type: none"> • Control video cassette recorders or DVD players. • Control the SIMPLINK compatible devices. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



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

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

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

AV MODE It helps you select and set images and sounds when connecting AV devices.

VOLUME UP /DOWN Increase/decrease the sound level.

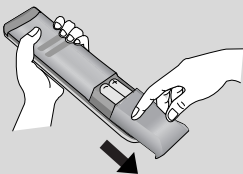
FAV Scroll through the programmed Favorite channels.

MUTE Switch the sound on or off.

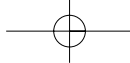
CHANNEL UP/DOWN Select available channels.

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

Installing Batteries



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

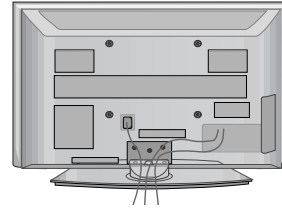


PREPARATION

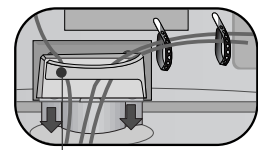
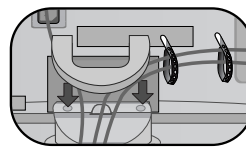
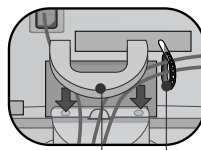
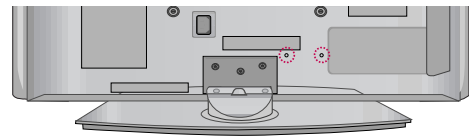
CABLE MANAGEMENT

■ Image shown may differ from your TV.

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



- 2 Install the **CABLE MANAGEMENT CLIP** as shown.
If your TV has the **CABLE HOLDER**, install it as shown and bundle the cables.



CABLE HOLDER

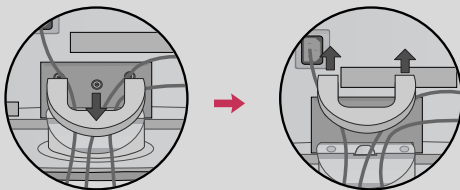
CABLE MANAGEMENT CLIP

CABLE MANAGEMENT CLIP

How to remove the CABLE MANAGEMENT CLIP

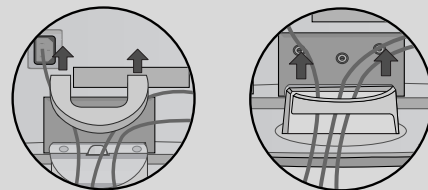
42PG10/20/20C

- First, press the cable management. Hold the **CABLE MANAGEMENT CLIP** with both hands and pull it upward.



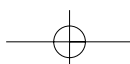
50PG10/20/20C, 50/60PG30, 50/60PG30C

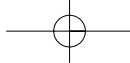
- Hold the **CABLE MANAGEMENT CLIP** with both hands and pull it upward.



! NOTE

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

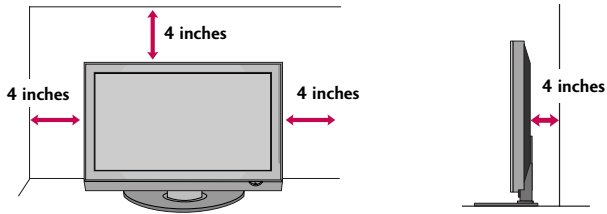




DESKTOP PEDESTAL INSTALLATION

- Image shown may differ from your TV.

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

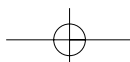
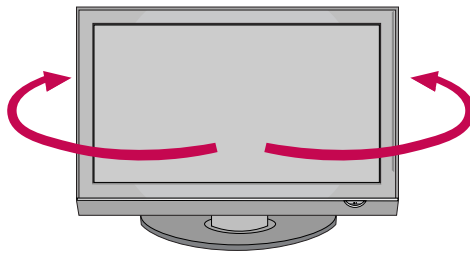


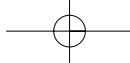
CAUTION

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

SWIVEL STAND (Only 50/60PG30, 50/60PG30C)

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





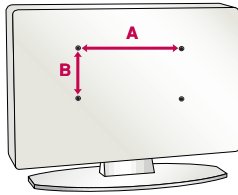
PREPARATION

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 dealer.

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.



PREPARATION

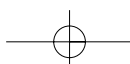
| Product | Model | VESA (A * B) | Standard Screw | Quantity |
|-----------|-----------------------------------------------------------------------|-----------------|----------------|----------|
| PLASMA TV | 42PG10, 42PG20, 42PG20C 50PG10, 50PG20, 50PG20C 50PG30, 50PG30C | 400 * 400 | M6 | 4 |
| | 60PG30, 60PG30C | 600 * 400 | M8 | 4 |

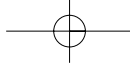
! NOTE

- ▶ 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.





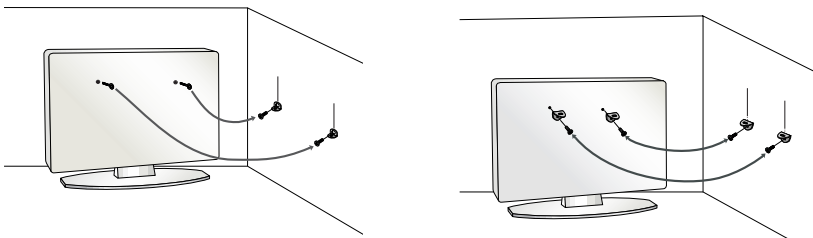
SECURING THE TV TO THE WALL TO PREVENT FALLING

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

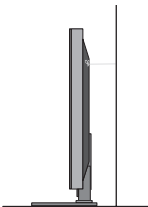
We recommend that you set up the TV close to a wall so it cannot fall over if pushed backwards. Additionally, we recommend that the TV be attached to a wall so it cannot be pulled in a forward direction, potentially causing injury or damaging the product.

Caution: Please make sure that children don't climb on or hang from the TV.

PREPARATION



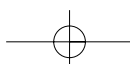
- Insert the eye-bolts (or TV brackets and bolts) to tighten the product to the wall as shown in the picture.
 - * If your product has the bolts in the eye-bolts position before inserting the eye-bolts, loosen the bolts.
 - * Insert the eye-bolts or TV brackets/bolts and tighten them securely in the upper holes.
- Secure the wall brackets with the bolts (not provided as parts of the product, must purchase 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.

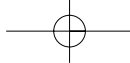


- Use a sturdy rope (not provided as parts of the product, must purchase separately) to tie the product. It is safer to tie the rope so it becomes horizontal between the wall and the product.

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.

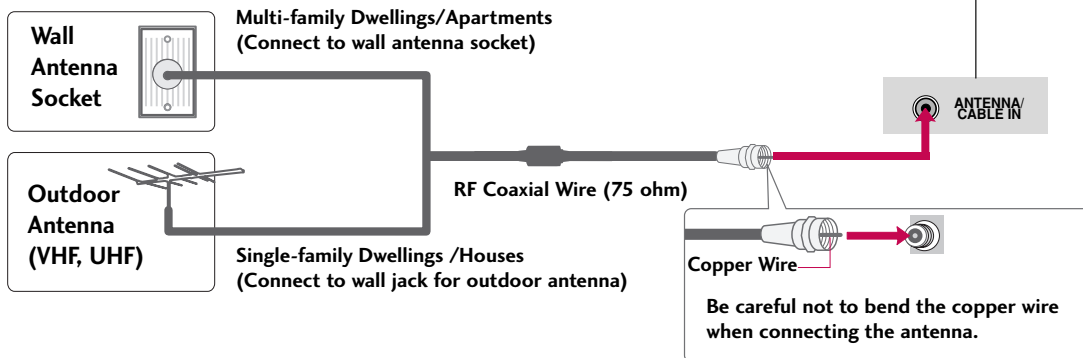
ANTENNA OR CABLE CONNECTION

PREPARATION

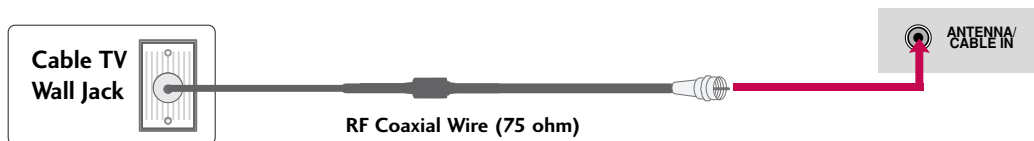
1. Antenna (Analog or Digital)

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

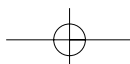
For optimum picture quality, adjust antenna direction if needed.



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.

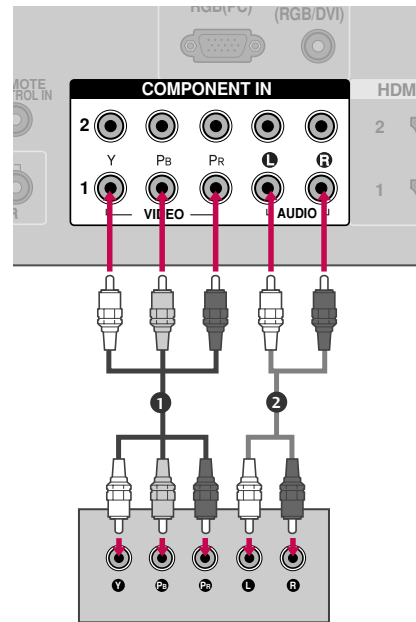
HD RECEIVER SETUP

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 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** jacks on the TV.



EXTERNAL EQUIPMENT SETUP

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 IN2** input, select the **Component 2** input source on the TV.

Supported Resolutions

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

Y, CB/PB, CR/PR

| Resolution | Horizontal Frequency(KHz) | Vertical Frequency(Hz) |
|------------|---------------------------|------------------------|
| 720x480i | 15.73 | 59.94 |
| | 15.73 | 60.00 |
| 720x480p | 31.47 | 59.94 |
| | 31.50 | 60.00 |
| 1280x720p | 44.96 | 59.94 |
| | 45.00 | 60.00 |
| 1920x1080i | 33.72 | 59.94 |
| | 33.75 | 60.00 |
| 1920x1080p | 27.00 | 24.00 |
| | 33.75 | 30.00 |
| | 67.43 | 59.94 |
| | 67.50 | 60.00 |

EXTERNAL EQUIPMENT SETUP

DVD SETUP

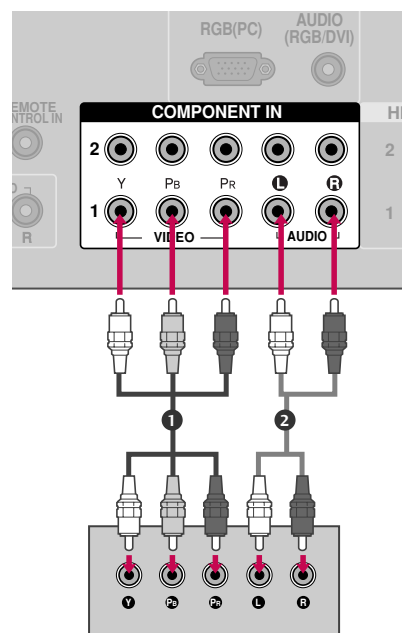
Component Connection

1. How to connect

- 1 Connect the video outputs (Y, Pb, Pr) of the DVD to the **COMPONENT IN VIDEO1** 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 AUDIO1** 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.



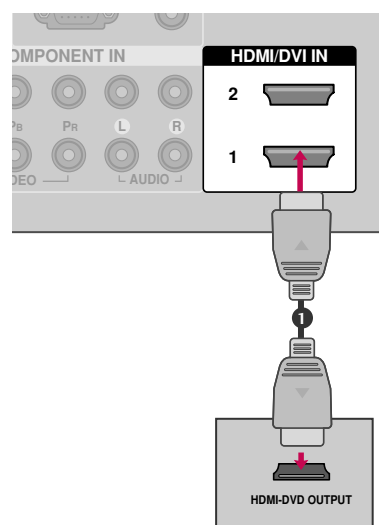
HDMI Connection

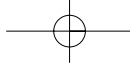
1. How to connect

- 1 Connect the HDMI output of the DVD to the **HDMI/DVI IN1, 2, or HDMI IN3** 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, 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.





VCR SETUP

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 IN2**, 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.

S-Video Connection

1. How to connect

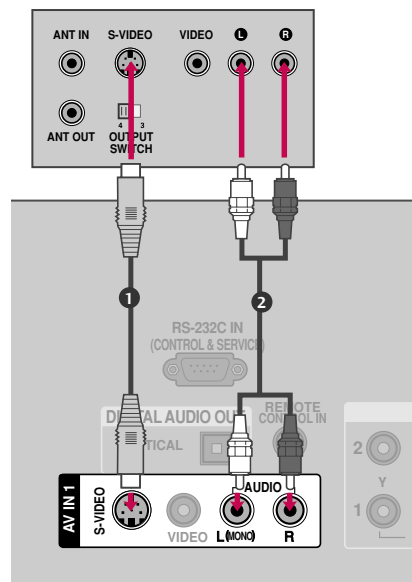
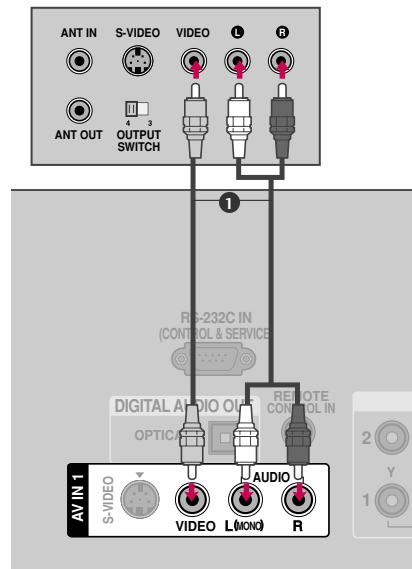
- 1 Connect the S-VIDEO output of the VCR to the S-VIDEO input on the TV.
- 2 Connect the audio outputs of the VCR to the **AUDIO** input jacks on the TV.

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 **AV1** input source on the TV using the **INPUT** button on the remote control.

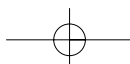
NOTE

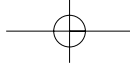
- ▶ S-Video provides better quality than composite. Use it when available.



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

PC SETUP

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

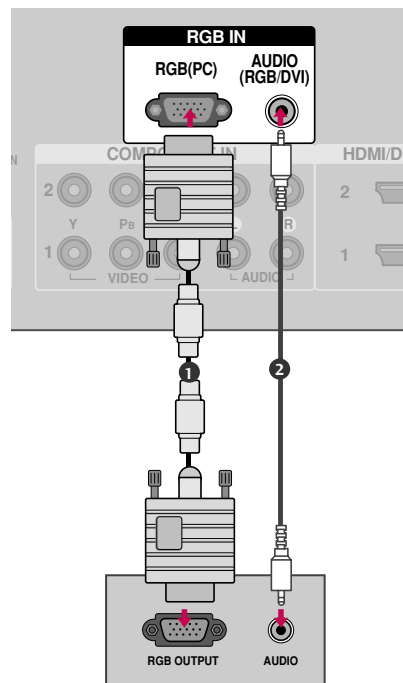
VGA (D-Sub 15 pin) Connection

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.



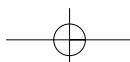
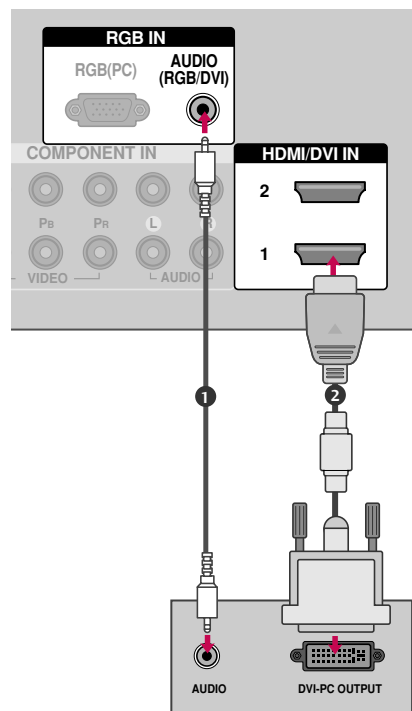
DVI to HDMI Connection

1. How to connect

- 1 Connect the DVI output of the PC to the **HDMI/DVI IN 1, 2, or HDMI IN3** jack on the TV.
- 2 Connect the PC audio output to the **AUDIO (RGB/DVI)** jack on the TV.

2. How to use

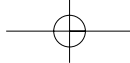
- Turn on the PC and the TV.
- Select the **HDMI1, HDMI2** or **HDMI3** input source on the TV using the **INPUT** button on the remote control.



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

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

* Only RGB-PC mode



WATCHING TV

TURNING ON 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 $\phi/|$, **INPUT**, **CH** (\blacktriangle or \blacktriangledown) button on the TV or press the **POWER**, **INPUT**, **CH** (\wedge or \vee), **Number (0~9)** button on the remote control.
- 2 Select the viewing source by using the **INPUT** button on the remote control.
 - This TV is programmed to remember which power state it was last set to, even if the power cord is out.
- 3 When finished using the TV, press the **POWER** button on the remote control. The TV reverts to standby mode.

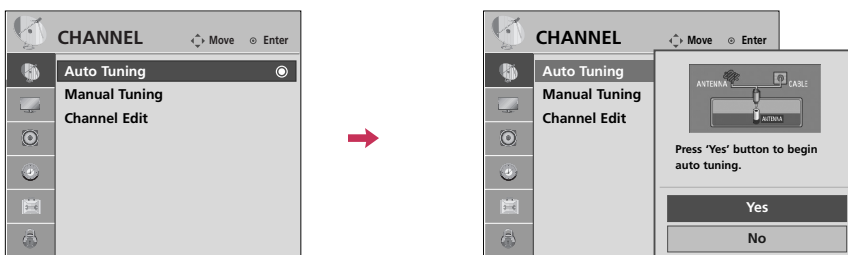
NOTE ▶ If you intend to be away on vacation, disconnect the power plug from the wall power outlet.

CHANNEL SETUP

Auto Scan (Auto Tuning)

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

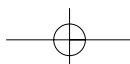
Run Auto Tuning again after any Antenna/Cable connection changes.

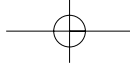


- 1 Select **CHANNEL**.
- 2 Select **Auto Tuning**.
- 3 Select **Yes**.
- 4 Run **Auto tuning**.

- 5 Return to the previous menu.
- Return to TV viewing.

■ A password is required to gain access to Auto Tuning menu if the Lock System is turned on.



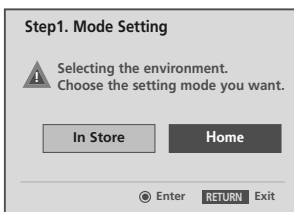


INITIAL SETTING

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

- Default selection is **“Home”**. We recommend setting the TV to **“Home”** mode for the best picture in your home environment.
- **“In-store”** Mode is only intended for use in retail environments. Customers can adjust the **“Picture menu - Picture mode”** manually while inspecting the TV, but the TV will automatically return to preset in-store mode after 5 minutes.

Step1. Mode Setting



Select **Home** Mode.



Step2. Time Setting



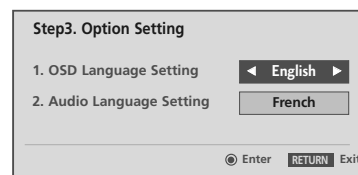
Select **Auto** or **Manual**.



Select desired time option.



Step3. Option Setting



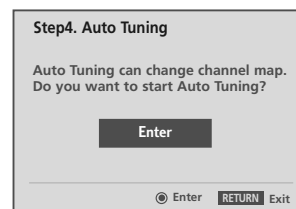
Select **OSD Language Setting** or **Audio Language Setting**.



Select your desired language.



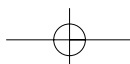
Step4. Auto Tuning

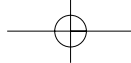


Start **Auto Tuning**.

NOTE

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





WATCHING TV

QUICK MENU

Q.Menu (Quick Menu) is a menu of features which users might use frequently.

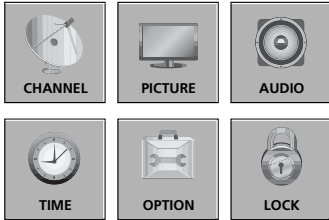


- 1 Display each menu.
- 2 Make appropriate adjustments.
- 3 Return to TV viewing.

WATCHING TV

ON-SCREEN MENUS SELECTION

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

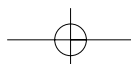


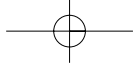
- 1 Display each menu.
- 2 Select a menu item.
- 3 Enter to the pop up menu.
- 4 Return to TV viewing.

CHANNEL

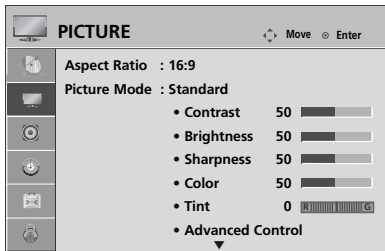


| | |
|---------------|---------------------------------------------------------------------------------------------------------------------------------|
| Auto Tuning | <ul style="list-style-type: none"> ■ All available TV channels are searched and stored automatically. |
| Manual Tuning | <ul style="list-style-type: none"> ■ User can do manual channel selection and add or delete individual channels. |
| Channel Edit | <ul style="list-style-type: none"> ■ You can add or delete in the channel list. |





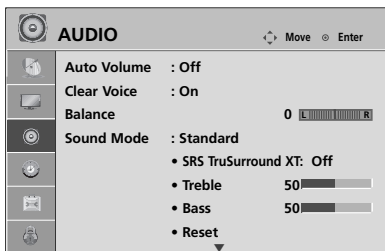
PICTURE



| | |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Aspect Ratio | <ul style="list-style-type: none"> Select the desired picture format: Set by program, 4:3, 16:9, Zoom1, Zoom2, Just Scan. |
| Picture Mode | <ul style="list-style-type: none"> Select the Vivid, Standard, Cinema, Sport, Game, Expert1, Expert2. Adjust the Contrast, Brightness, Sharpness, Color, Tint. Advanced Control: Adjust Color Temperature, Fresh Contrast, Fresh Color, Noise Reduction, Gamma, Black Level, Film Mode. Reset: Settings of the selected picture modes return to the default factory settings. |
| Screen (RGB-PC) | <ul style="list-style-type: none"> Adjust the screen Resolution, Auto config, Position, Size, Phase, Reset. |

WATCHING TV

AUDIO

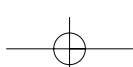


| | |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Auto Volume | <ul style="list-style-type: none"> Auto Volume makes sure that the volume level remains consistent whether you are watching a commercial or a regular TV program. |
| Clear Voice | <ul style="list-style-type: none"> By differentiating the human sound range from others, it helps users listen to human voices better. |
| Balance | <ul style="list-style-type: none"> Adjust the left/right sound of speaker. |
| Sound Mode | <ul style="list-style-type: none"> Select the Standard, Music, Cinema, Sport, and Game. SRS TruSurround XT, Treble, Bass: Adjust the sound to suit your taste and room situations. Reset: Settings of the selected Sound Mode return to the default factory settings. |
| TV Speaker | <ul style="list-style-type: none"> Turn the TV speaker On or off. |

TIME



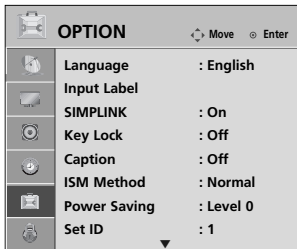
| | |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Clock | <ul style="list-style-type: none"> Auto: The time is set automatically from a digital channel signal. Select your viewing area time zone. Select Auto, Off, On depending on whether or not your viewing area observes Daylight Saving time. Manual: Set the clock manually. |
| Off Time | <ul style="list-style-type: none"> Select On or Off. |
| On Time | <ul style="list-style-type: none"> Select On or Off. |
| Sleep Timer | <ul style="list-style-type: none"> Select the amount of time before your TV turns off automatically: Off, 10, 20, 30, 60, 90, 120, 180, 240. |
| Auto Sleep | <ul style="list-style-type: none"> TV will be automatically turned off, in case of no signal for 10 minutes. |



WATCHING TV

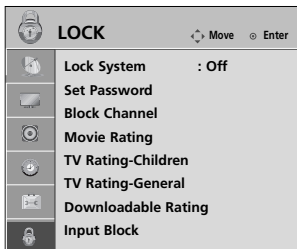
WATCHING TV

OPTION

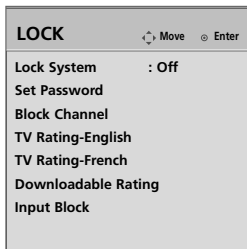


| | |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Language | <ul style="list-style-type: none"> Select your desired language for on screen menus : English, Spanish, French. |
| Input Label | <ul style="list-style-type: none"> Set a label to each input source. |
| SIMPLINK | <ul style="list-style-type: none"> Control and play other AV devices connected to the TV through HDMI cable without additional cables and settings. |
| key Lock | <ul style="list-style-type: none"> This feature can be used to prevent unauthorized viewing by locking out the front panel controls. |
| Caption | <ul style="list-style-type: none"> When selecting Off, Submenus for Analog, DTV, and Digital Option become disabled. Analog: CC1 ~ CC4 , Text1 ~ Text4. Digital: CC1 ~ CC4 , Text1 ~ Text4, Service1 ~ Service6. Digital Option: Customize the DTV/CADTV captions that appear on your screen. |
| ISM Method | <ul style="list-style-type: none"> Use it to minimize any fixed image on the screen. : Normal, Orbiter, Inversion, White Wash. |
| Power Saving | <ul style="list-style-type: none"> Reduces the plasma display power consumption. |
| Set ID | <ul style="list-style-type: none"> Choose the desired TV ID number. |
| Initial Setting | <ul style="list-style-type: none"> After turning on the TV, adjust Mode, Time, Language, Auto Tuning. |

LOCK



For USA



For Canada

| | |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lock System | <ul style="list-style-type: none"> Select On or Off. |
| Set Password | <ul style="list-style-type: none"> Change the password. |
| Block Channel | <ul style="list-style-type: none"> Select a channel number that you wish to block. |
| Movie Rating | <ul style="list-style-type: none"> Blocks movies according to the movie ratings limits specified. |
| TV Rating-Children | <ul style="list-style-type: none"> Prevents children from watching certain children's TV programs, according to the ratings limit set. |
| TV Rating-General | <ul style="list-style-type: none"> Based on the ratings, blocks certain TV programs that you and your family do not want to view. |
| TV Rating-English | <ul style="list-style-type: none"> Selecting canadian english language rating system. |
| TV Rating-French | <ul style="list-style-type: none"> Selecting canadian french language rating system. |
| Downloadable Rating | <ul style="list-style-type: none"> This function may become available in the future and will be available only for digital channel signal. |
| Input Block | <ul style="list-style-type: none"> Enables you to select a source to block from the external source devices you have hooked up. |

APPENDIX

TROUBLESHOOTING

The operation does not work normally.

The remote control doesn't work

- Check to see if there is any object between the product and the remote control causing obstruction. Ensure you are pointing the remote control directly at the TV.
- Ensure that the batteries are installed with correct polarity (+ to +, - to -).
- Ensure that the correct remote operating mode is set: TV, VCR etc.
- Install new batteries.

Power is suddenly turned off

- Is the sleep timer set?
- Check the power control settings. Power interrupted.

The video function does not work.

No picture & No sound

- Check whether the product is turned on.
- Try another channel. The problem may be with the broadcast.
- Is the power cord inserted into wall power outlet?
- Check your antenna direction and/or location.
- Test the wall power outlet, plug another product's power cord into the outlet where the product's power cord was plugged in.

Picture appears slowly after switching on

- This is normal, the image is muted during the product startup process. Please contact your service center, if the picture has not appeared after a few minutes.

No or poor color or poor picture

- Adjust Color in menu option.
- Try unplugging any others electronics that are near by to see if interference is causing the problem.
- Try another channel. The problem may be with the broadcast.
- Are the video cables installed properly?
- Activate any function to restore the brightness of the picture.

Horizontal/vertical bars or picture shaking

- Check for local interference such as an electrical appliance or power tool.

Poor reception on some channels

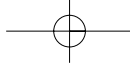
- Station or cable product experiencing problems, tune to another station.
- Station signal is weak, reorient antenna.
- Check for sources of possible interference.

Lines or streaks in pictures

- Check antenna (Change the direction of the antenna).

No picture when connecting HDMI

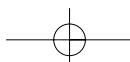
- Check HDMI cable over version 1.3.
If the HDMI cables don't support HDMI version 1.3, it can cause flickers or no screen display. In this case use the latest cables that support HDMI version 1.3.

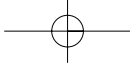


| The audio function does not work. | |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Picture OK but No sound | <ul style="list-style-type: none"> ■ Press the VOL or VOLUME button. ■ Sound muted? Press MUTE button. ■ Try another channel. The problem may be with the broadcast. ■ Are the audio cables installed properly? |
| No output from one of the speakers | <ul style="list-style-type: none"> ■ Adjust Balance in menu option. |
| Unusual sound from inside the product | <ul style="list-style-type: none"> ■ A change in ambient humidity or temperature may result in an unusual noise when the product is turned on or off and does not indicate a fault with the product. |
| No sound when connecting HDMI or USB | <ul style="list-style-type: none"> ■ Check HDMI cable over version 1.3. ■ Check USB cable over version 2.0. |

*This feature is not available for all models.

| There is a problem in PC mode. (Only PC mode applied) | |
|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| The signal is out of range | <ul style="list-style-type: none"> ■ Adjust resolution, horizontal frequency, or vertical frequency. ■ Check the input source. |
| Vertical bar or stripe on background & Horizontal Noise & Incorrect position | <ul style="list-style-type: none"> ■ Run the Auto configure or adjust clock, phase, or H/V position. (Option) |
| Screen color is unstable or single color | <ul style="list-style-type: none"> ■ Check the signal cable. ■ Update video card drivers. |





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.

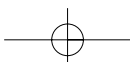
Cleaning the Cabinet

- 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.



APPENDIX

PRODUCT SPECIFICATIONS

| MODEL | | 42PG10 (42PG10-UA) | 42PG20 (42PG20-UA) 42PG20C (42PG20C-UA) |
|------------------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Dimensions (Width x Height x Depth) | With stand | 40.9 x 28.7 x 12.1 inches 1040.0 x 729.0 x 308.0 mm | 40.9 x 28.7 x 12.1 inches 1040.0 x 731.3 x 308.0 mm |
| | Without stand | 40.9 x 26.6 x 3.2 inches 1040.0 x 677.0 x 83.6 mm | 40.9 x 26.6 x 3.3 inches 1040.0 x 677.0 x 86.0 mm |
| Weight | With stand | 57.3 pounds / 26.0 kg | 58.2 pounds / 26.4 kg |
| | Without stand | 52.9 pounds / 24.0 kg | 53.5 pounds / 24.3 kg |
| Power requirement Television System Program Coverage External Antenna Impedance | | AC100-120V ~ 50/60Hz NTSC-M, ATSC, 64 & 256 QAM VHF 2-13, UHF 14-69, CATV 1-135, DTV 2-69, CADTV 1-135 75 ohm | |
| Environment condition | Operating Temperature Operating Humidity | 32 ~ 104°F (0 ~ 40°C) Less than 80% | |
| | Storage Temperature Storage Humidity | -4 ~ 140°F (-20 ~ 60°C) Less than 85% | |

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

| MODELS | | 50PG10 (50PG10-UA) | 50PG20 (50PG20-UA) 50PG20C (50PG20C-UA) |
|------------------------------------------------------------------------------------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Dimensions (Width x Height x Depth) | With stand | 48.2 x 33.4 x 14.3 inches 1224.7 x 849.0 x 364.0 mm | 48.2 x 33.4 x 14.3 inches 1224.7 x 849.0 x 364.0 mm |
| | Without stand | 48.2 x 31.1 x 3.2 inches 1224.7 x 790.0 x 83.6 mm | 48.2 x 31.1 x 3.3 inches 1224.7 x 790.0 x 86.0 mm |
| Weight | With stand | 91.4 pounds / 41.5 kg | 90.8 pounds / 41.2 kg |
| | Without stand | 83.9 pounds / 38.1 kg | 83.3 pounds / 37.8 kg |
| MODELS | | 50PG30 (50PG30F-UA) 50PG30C (50PG30FC-UA) | 60PG30 (60PG30F-UA) 60PG30C (60PG30FC-UA) |
| Dimensions (Width x Height x Depth) | With stand | 48.5 x 33.4 x 14.3 inches 1232.0 x 850.0 x 363.6 mm | 57.7 x 39.7 x 16.2 inches 1468.0 x 1009.1 x 413.9 mm |
| | Without stand | 48.5 x 31.2 x 3.3 inches 1232.0 x 793.0 x 84.0 mm | 57.7 x 37.3 x 3.4 inches 1468.0 x 949.5 x 88.5 mm |
| Weight | With stand | 93.2 pounds / 42.3 kg | 177.6 pounds / 80.6 kg |
| | Without stand | 84.4 pounds / 38.3 kg | 160.0 pounds / 72.6 kg |
| Power requirement Television System Program Coverage External Antenna Impedance | | AC 100-240V ~ 50/60Hz NTSC-M, ATSC, 64 & 256 QAM VHF 2-13, UHF 14-69, CATV 1-135, DTV 2-69, CADTV 1-135 75 ohm | |
| Environment condition | Operating Temperature Operating Humidity | 32 ~ 104°F (0 ~ 40°C) Less than 80% | |
| | Storage Temperature Storage Humidity | -4 ~ 140°F (-20 ~ 60°C) Less than 85% | |

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



CHILD SAFETY:

It Makes A Difference How and Where
You Use Your Flat Panel Display

Congratulations on your purchase! As you enjoy your new product, please keep these safety tips in mind:



THE ISSUE

- The home theater entertainment experience is a growing trend and larger flat panel displays are popular purchases. However, flat panel displays are not always supported on the proper stands or installed according to the manufacturer's recommendations.
- Flat panel displays that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests or carts may fall over and cause injury.

THIS MANUFACTURER CARES!

- The consumer electronics industry is committed to making home entertainment enjoyable and safe.

TUNE INTO SAFETY

- One size does NOT fit all. Follow the manufacturer's recommendations for the safe installation and use of your flat panel display.
- Carefully read and understand all enclosed instructions for proper use of this product.
- Don't allow children to climb on or play with furniture and television sets.
- Don't place flat panel displays on furniture that can easily be used as steps, such as a chest of drawers.
- Remember that children can become excited while watching a program, especially on a "larger than life" flat panel display. Care should be taken to place or install the display where it cannot be pushed, pulled over, or knocked down.
- Care should be taken to route all cords and cables connected to the flat panel display so that they cannot be pulled or grabbed by curious children.

WALL MOUNTING: IF YOU DECIDE TO WALL MOUNT YOUR FLAT PANEL DISPLAY, ALWAYS:

- Use a mount that has been recommended by the display manufacturer and/or listed by an independent laboratory (such as UL, CSA, ETL).
- Follow all instructions supplied by the display and wall mount manufacturers.
- If you have any doubts about your ability to safely install your flat panel display, contact your retailer about professional installation.
- Make sure that the wall where you are mounting the display is appropriate. Some wall mounts are not designed to be mounted to walls with steel studs or old cinder block construction. If you are unsure, contact a professional installer.
- A minimum of two people are required for installation. Flat panel displays can be heavy.




CEA
 Consumer Electronics Association
www.CE.org/safety