LG

Life's Good

LCD TV │ PLASMA TV
OWNER'S MANUAL

LCD TV MODEL	PLASMA TV MODELS
32LB9D	**42PB4DA**
	50PB4DA
	60PB4DA

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).

ENERGY STAR

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 : MFL34797022 (0708-REV01)
Printed in Korea

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

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:
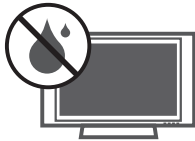
Read these instructions.
Keep these instructions.
Heed all warnings.
Follow all instructions.
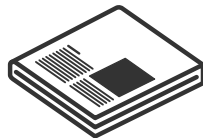
1 Do not use this apparatus near water.

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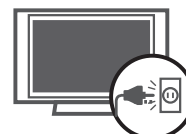
6 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

7 Only use attachments/accessories specified by the manufacturer.

8 Unplug this apparatus when unused for long periods of time.

SAFETY INSTRUCTIONS

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

S3125A

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

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

12 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.

13 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.

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

15 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.

16 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.

Power Supply

Short-circuit Breaker
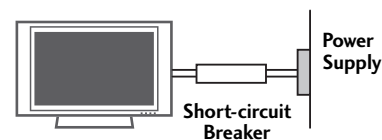
17 DISCONNECTING DEVICE FROM MAINS
Mains plug is the disconnecting device. The plug must remain readily operable.

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)

When you select your product, display the PDF file.

You can find the desired contents easily using the bookmark.
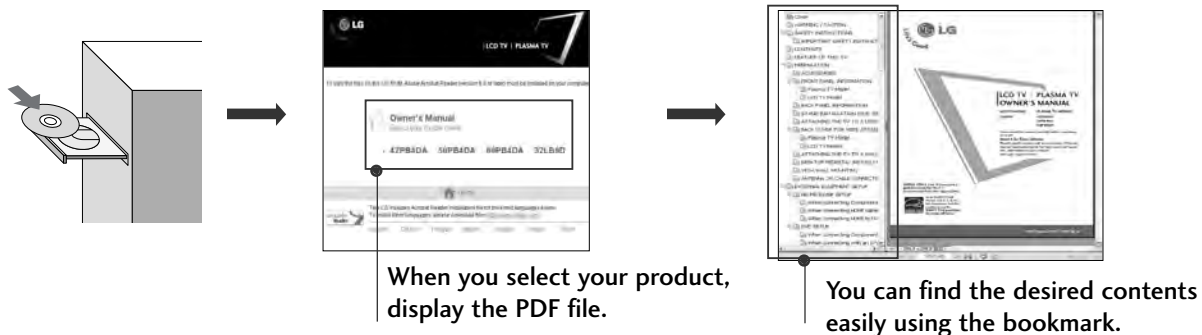
❶ NOTE ► If the web page does not appear automatically, open the Owner's Manual file directly.
Open the "My computer" ➞ Open the "LG" ➞ Open the "index.htm" file.

PREPARATION

ACCESSORIES

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

User must use shielded signal interface cables (D-sub 15 pin cable) with ferrite cores to maintain standard compliance for the product.
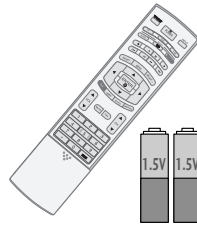
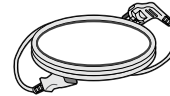For further information, see the the Owner's Manual files supplied CD-ROM.

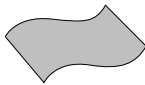| Owner's Manual	CD Manual (Refer to p.5)	Remote Control, Batteries	Power Cord	75 ohm Round Cable

Polishing Cloth

* Slightly wipe stained spot on the exterior only with the polishing cloth for the product exterior if there is stain or fingerprint on surface of the exterior.

* Do not wipe roughly when removing stain. Please be cautions of that excessive pressure may cause scratch or discoloration.
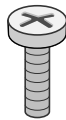
Option Extras
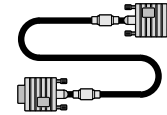
D-sub 15 pin Cable

For LCD TV models

Cable Management	2- TV Bracket Bolts (Refer to p.16)	2- TV Brackets, 2- Wall Brackets (Refer to p.16)	4-Bolts for stand assembly (Refer to p.12)	1- Screw for stand fixing (Refer to p.13)	Twist Holder Arrange the wires with the twist holder.
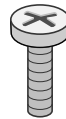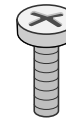
For Plasma TV models

For 42/50 inches

2- Wall Brackets (Refer to p.16)	2- Eye Bolts (Refer to p.16)

For 60 inches

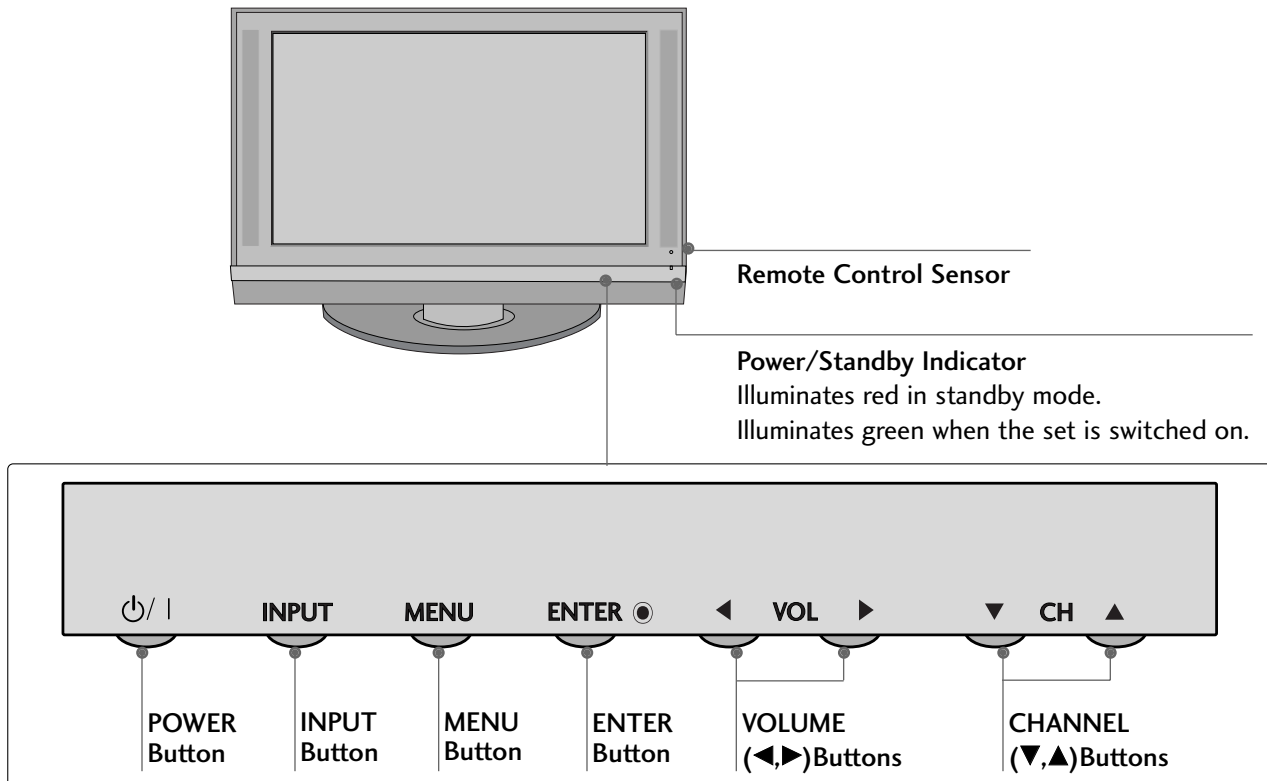| 2- TV Bracket Bolts (Refer to p.16)	2- TV Brackets, 2- Wall Brackets (Refer to p.16)

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).

Plasma TV Model

Remote Control Sensor

Power/Standby Indicator
Illuminates red in standby mode.
Illuminates green when the set is switched on.

([⏻]/ | INPUT   MENU   ENTER ◉   ◄ VOL ►   ▼ CH ▲

| POWER Button | INPUT Button | MENU Button | ENTER Button | VOLUME (◄,►)Buttons | CHANNEL (▼,▲)Buttons |

LCD TV Model

CHANNEL (▼,▲) Buttons

VOLUME (◄,►) Buttons

Intelligent Eye
Adjusts picture according to the surrounding conditions.

ENTER Button

MENU Button

Remote Control Sensor

INPUT Button

Power/Standby Indicator
Illuminates red in standby mode.
Illuminates green when the set is switched on.

POWER Button

BACK PANEL INFORMATION

■ Here shown may be somewhat different from your TV.

Plasma TV Model

AV IN 2

USB ⑩

S-VIDEO

VIDEO L/MONO-AUDIO-R ⑨

⑪

⑤ ANTENNA/ CABLE IN ⑥

③ ④

RGB IN

HDMI/DVI IN

RGB(PC)   AUDIO (RGB/DVI)

REMOTE CONTROL IN

DIGITAL AUDIO OUT

OPTICAL   COAXIAL ⑦

3

2

1

COMPONENT IN

2

Y   PB   PR   L   R

1

VIDEO   AUDIO

RS-232C IN (CONTROL & SERVICE)

AUDIO OUT ⑧

S-VIDEO   VIDEO   L(MONO)   R

AUDIO

AV IN 1 ⑨

②

LCD TV Model

USB IN ⑩

L/MONO-AUDIO-R

VIDEO ⑨

AV IN 2

⑪

ANTENNA/ CABLE IN ⑥

③

RGB IN

HDMI/DVI IN

RGB(PC)   AUDIO (RGB/DVI)

④ REMOTE CONTROL IN

DIGITAL AUDIO OUT

OPTICAL   COAXIAL ⑦

3

⑤

2

COMPONENT IN

RS-232C IN (CONTROL & SERVICE)

⑧

1

Y   PB   PR   L   R

VIDEO   AUDIO

AUDIO OUT

S-VIDEO   VIDEO   L(MONO)-AUDIO-R

AV IN 1 ⑨

②

❶ 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.

❷ COMPONENT IN

Connect a component video/audio device to these jacks.

❸ RGB (PC)

Connect the output from a PC.
AUDIO (RGB/DVI)
Connect the audio from a PC or DTV.

❹ REMOTE CONTROL PORT

Connect your wired remote control.

❺ RS-232C IN (CONTROL & SERVICE) PORT

Connect to the RS-232C port on a PC.

❻ ANTENNA/CABLE IN

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

❼ DIGITAL AUDIO OUT

Connect digital audio to various types of equipment.
Note: In standby mode, these ports do not work.

❽ AUDIO OUT

Connect analog audio to various types of equipment.

❾ AV (Audio/Video) IN 1/2

Connect audio/video output from an external device to these jacks.
S-VIDEO
Connect S-Video out from an S-VIDEO device.

❿ USB INPUT

⓫ Power Cord Socket

For operation with AC power.
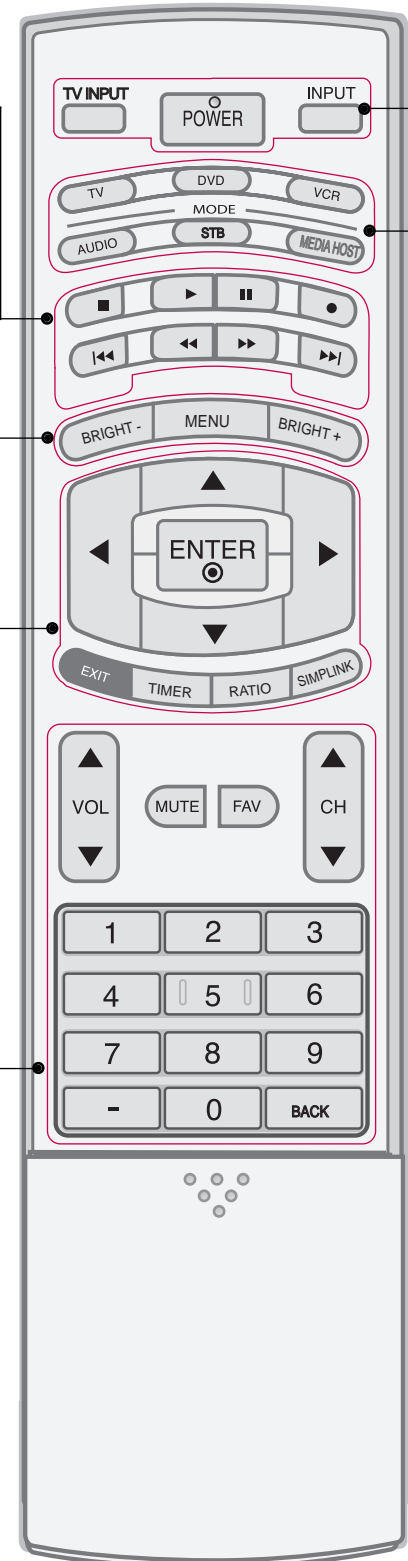Caution: Never attempt to operate the TV on DC power.

REMOTE CONTROL FUNCTIONS

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

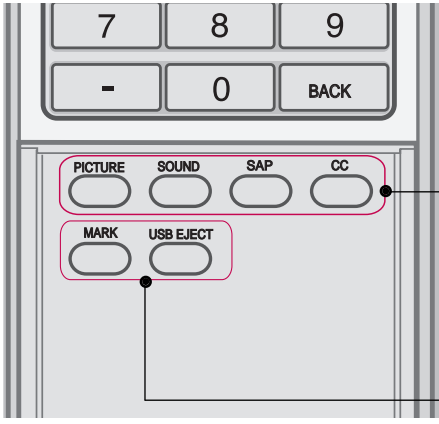|	
MEDIAHOST **mode control buttons**	Controls the *MEDIA*HOST mode.
VCR/DVD buttons	Control video cassette recorders or DVD players.

MENU	Displays the main menu.
BRIGHT +/-	Adjust brightness on screen.

THUMBSTICK (Up/Down/Left Right/ENTER)	Navigate the on-screen menus and adjust the system settings to your preference.
EXIT	Clear all on-screen displays and return to TV viewing from any menu.
TIMER	Select the amount of time before your TV turns off automatically.
RATIO	Change the aspect ratio.
SIMPLINK	See a list of AV devices connected to TV. When you toggle this button, the SimpLink menu appears at the screen.

VOLUME UP /DOWN	Increase/decrease the sound level.
MUTE	Switch the sound on or off.
FAV	Scroll through the programmed Favorite channels.
CHANNEL UP/DOWN	Select available channels.
NUMBER button	
BACK	Tune to the last channel viewed.
— (DASH)	Used to enter a program number for multiple program channels such as 2-1, 2-2, etc.

TV INPUT   INPUT   POWER

TV   DVD   VCR
MODE
AUDIO   STB   MEDIA HOST

BRIGHT -   MENU   BRIGHT +

ENTER

EXIT   TIMER   RATIO   SIMPLINK

VOL   MUTE   FAV   CH

| 1 | 2 | 3 |
4	5	6
7	8	9
-	0	BACK

POWER	Turns your TV or any other programmed equipment on or off, depending on the mode.
TV INPUT	In AV 1-2, Component 1-2, RGB-PC, HDMI1, HDMI2 and HDMI3 input sources, screen returns to the last TV channel.
INPUT	External input modes rotate in regular sequence: Antenna, Cable, AV1-2, Component 1-2, RGB-PC, HDMI1, HDMI2, and HDMI3 (AV 1-2, Component 1-2, RGB-PC, HDMI1, HDMI2, and HDMI3 input sources are linked automatically, only if these are connected).

MODE	Select the remote operating mode: TV, DVD, VCR, AUDIO, or STB.
	* If the mode of another product is selected, a button on the remote control which is not used for the selected product can control the TV.
MEDIA_{HOST}	Enter to the *MEDIA_{HOST}* mode.

## Inside the Sliding Cover

PICTURE	Adjust the factory preset picture depend on the viewing environment.
SOUND	Select the appropriate type of sound for type of program.
SAP	Select MTS sound: Mono, Stereo, and SAP analog mode. Change the audio language DTV mode.
CC	Select the Caption On/Off.
MARK	Enter the selected functions.
USB EJECT	Remove the USB device.

Installing Batteries
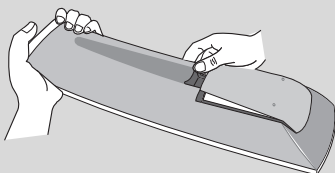
▪ Open the battery compartment cover on the back side and install the batteries matching correct polarity (+with +,-with -).

▪ Install two 1.5V AA batteries. Don't mix old or used batteries with new ones.

▪ Close cover.

Remote control effective range
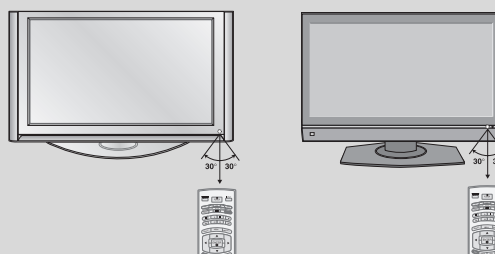
▪ Use a remote control up to 7 meters distance and 30 degree (left/right) within the receiving unit scope.

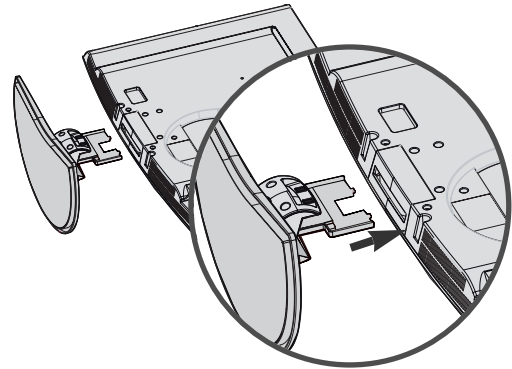▪ Dispose of used batteries in a recycle bin to preserve environment.
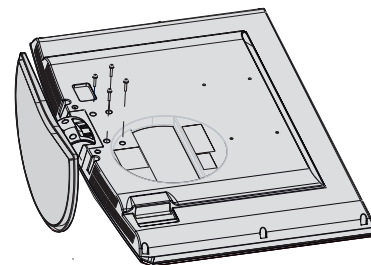
PREPARATION

STAND INSTALLATION (Only 37LB5D)

1 Carefully place the product screen side down on a cushioned surface that will protect product and screen from damage.
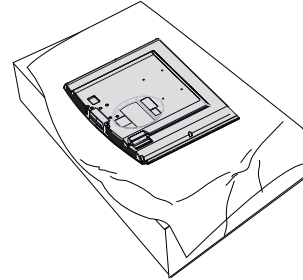
**2** Assemble the product stand with the product as shown.

3 Install the 4 bolts securely, in the back of the product in the holes provided.

ATTACHING THE TV TO A DESK (Only 32LB9D model)

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

1-Screw
(provided as parts
of the product)

Stand

Desk
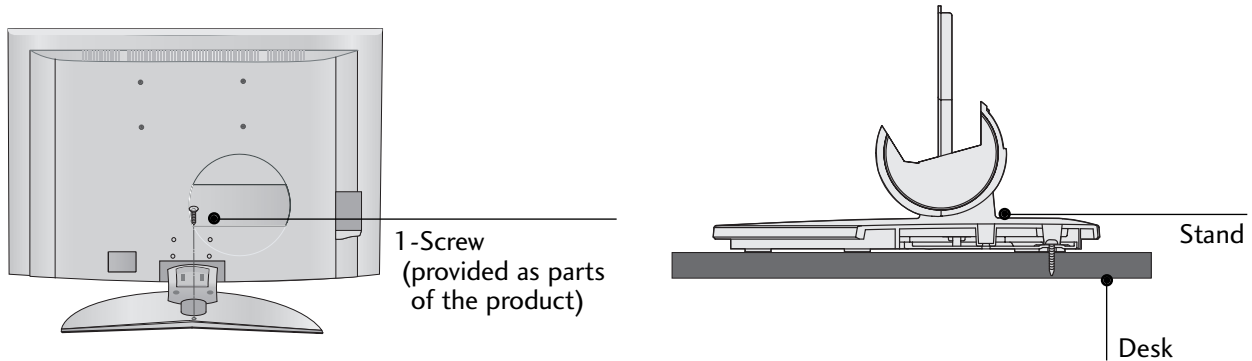
⚠ WARNING

► This apparatus must be securely attached to the floor/wall per installation instructions. Tipping, shaking, or rocking the machine may cause injury/death.
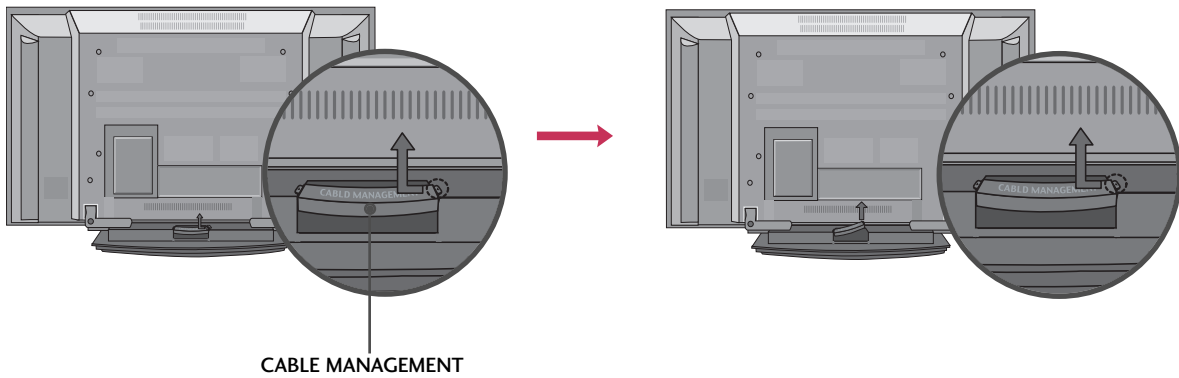
BACK COVER FOR WIRE ARRANGEMENT

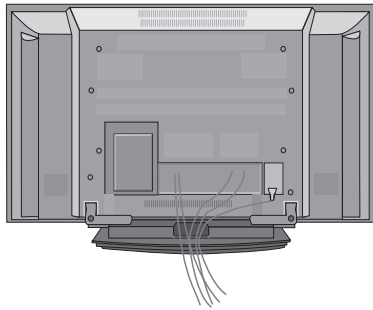■ Here shown may be somewhat different from your TV.
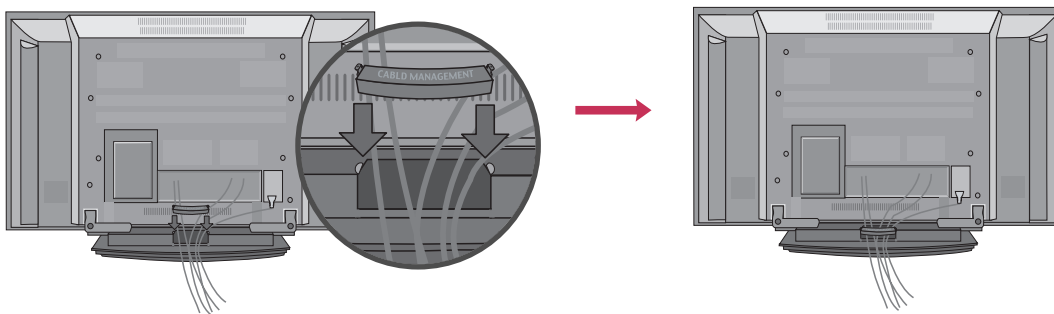
Plasma TV Model

1 Hold the **CABLE MANAGEMENT** with both hands and pull it backward as shown.

CABLE MANAGEMENT

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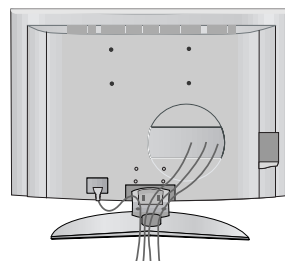To connect an additional equipment, see the **EXTERNAL EQUIPMENT SETUP** section.

3 Install the **CABLE MANAGEMENT** as shown.

LCD TV Model

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

2 Install the **CABLE MANAGEMENT** as shown.
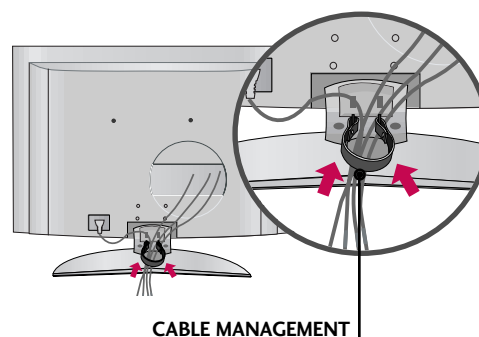(Insert it as pushing the loops on the both sides
of the cable management.)

CABLE MANAGEMENT

3 Bundle the cables using the supplied **TWIST
HOLDER**.

TWIST HOLDER
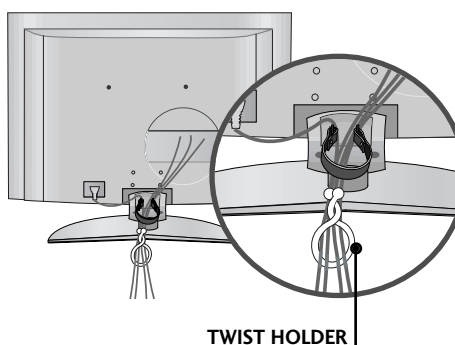
❶ NOTE

▶ Do not hold the **CABLE MANAGEMENT** 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

▶ Hold the **CABLE MANAGEMENT** with both hands and
pull it out.
(Pull it out as holding the loops on the both sides of the
cable management.)

ATTACHING THE TV TO A WALL

■ Here shown may be somewhat different from your TV.

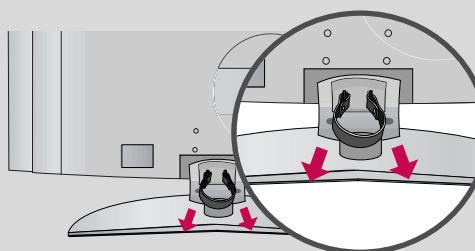We recommend that you set up the TV close to a wall so it cannot fall over if pushed backwards.
Additionally, we recommend that the TV be attached to a wall so it cannot be pulled in a forward direction, potentially causing injury or damaging the product.
Caution: Please make sure that children don't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

Plasma TV Model   **LCD TV Model**

42/50 inches   **60 inches**
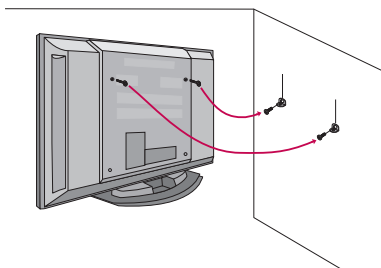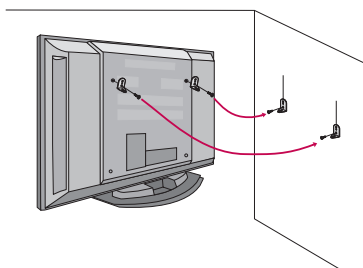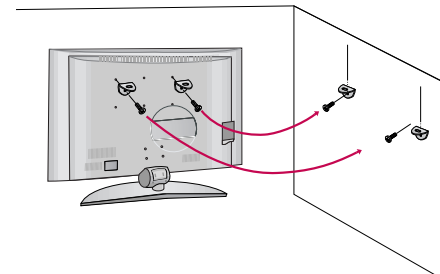
■ Insert the eye-bolts (or TV brackets and bolts) to tighten the product to the wall as shown in the picture.
  *If your product has the bolts in the eye-bolts position before inserting the eye-bolts, loosen the bolts.
   Secure the wall brackets with the bolts (not provided as parts of the product, 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.
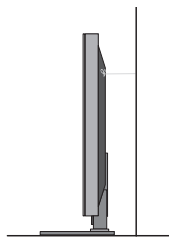
■ Use a sturdy rope (not provided as parts of the product, must pur-chase separately) to tie the product. It is safer to tie the rope so it becomes horizontal between the wall and the product.

16

DESKTOP PEDESTAL INSTALLATION

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

Plasma TV Model

LCD TV Model

4 inches

4 inches **4 inches** **4 inches**

4 inches

4 inches **4 inches** **4 inches**
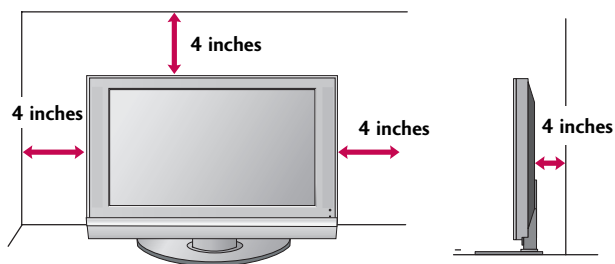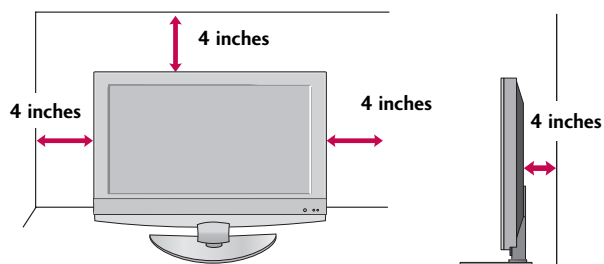
⚠ **CAUTION**   ▶ Ensure adequate ventilation by following the clearance recommendations.

VESA WALL MOUNTING

This product accepts a VESA-compliant mounting interface pad. (optional)
There 4 threaded holes are available for attaching the bracket.

Plasma TV Model

LCD TV Model

600 mm

400 mm

200 mm

100 mm
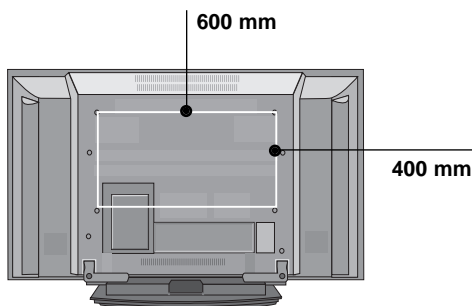
🛈 NOTE

▶ Screw length needed depends on the wall mount used. For further information, refer to the VESA
Wall Mounting Instruction Guide.

ANTENNA OR CABLE CONNECTION

1. Antenna (Analog or Digital)

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

**Wall
Antenna
Socket**

**Multi-family Dwellings/Apartments
(Connect to wall antenna socket)**

**ANTENNA/
CABLE IN**

**Outdoor
Antenna
(VHF, UHF)**

RF Coaxial Wire (75 ohm)

**Single-family Dwellings /Houses
(Connect to wall jack for outdoor antenna)**

Copper Wire

**Be careful not to bend the bronze wire
when connecting the antenna.**

2. Cable

**Cable TV
Wall Jack**

**ANTENNA/
CABLE IN**

RF Coaxial Wire (75 ohm)
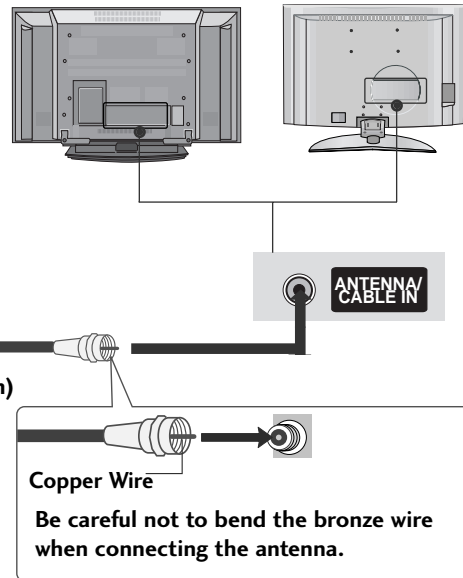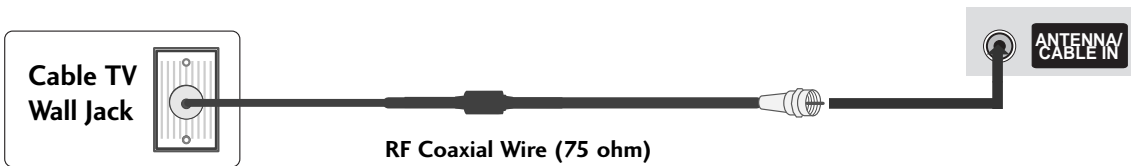
3. Using both cable and antenna

Antenna

RF Coaxial Wire (75 ohm)

**Diplexer
(Signal
Combiner)**

**ANTENNA/
CABLE IN**

**Cable TV
Wall Jack**

RF Coaxial Wire (75 ohm)

Antenna

UHF

**Signal
Amplifier**

**ANTENNA/
CABLE IN**

VHF
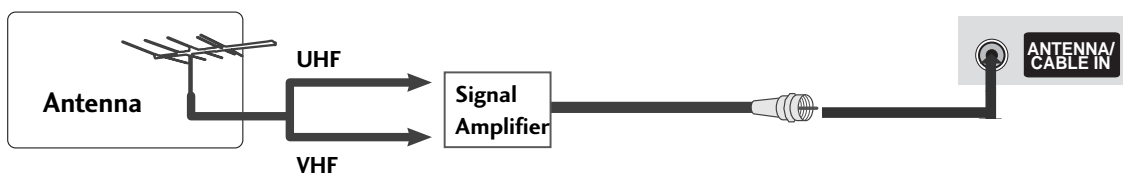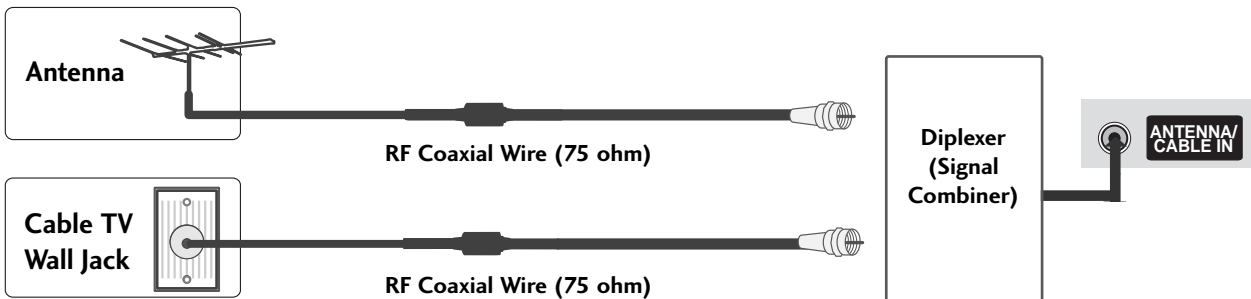
■ To improve the picture quality in a poor signal area, please purchase a signal amplifier and install properly.
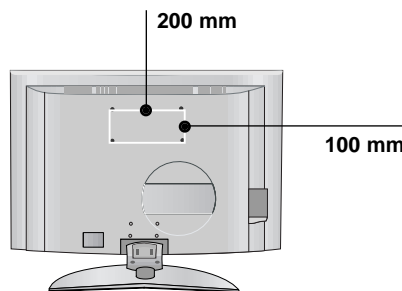■ If the antenna needs to be split for two TV's, install a 2-Way Signal Splitter.
■ If the antenna is not installed properly, contact your dealer for assistance.

NOTE ▶ The TV will let you know when the analog, cable, and digital channel scans are complete.

EXTERNAL EQUIPMENT SETUP

■ To prevent the equipment damage, never plug in any power cords until you have finished connecting all equipment.
■ This part of EXTERNAL EQUIPMENT SETUP mainly use picture for Plasma TV model.

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.

When connecting Component cable

1. How to connect

1 Connect the video outputs (Y, P_B, P_R) of the digital set top box to the **COMPONENT IN VIDEO 1** jacks on the set. Match the jack colors (Y = green, P_B = blue, and P_R = red).

2 Connect the audio output of the digital set-top box to the **COMPONENT IN AUDIO 1** jacks on the set.

2. How to use

■ Turn on the digital set-top box.
(Refer to the owner's manual for the digital set-top box. operation)
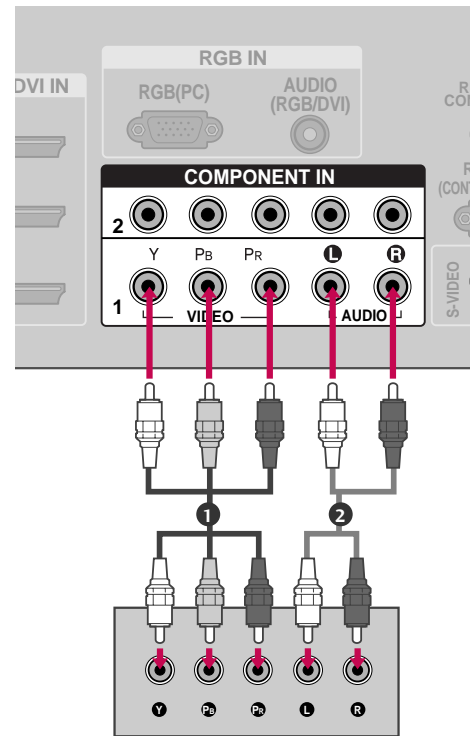
■ Select **Component 1** input source by using the **INPUT** button on the remote control.

■ If connected to **COMPONENT IN2** input, select **Component 2** input source.

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

Y, C_B/P_B, C_R/P_R

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

EXTERNAL EQUIPMENT SETUP

DVD SETUP

When connecting Component cable

1. How to connect

1 Connect the video outputs (Y, P$_B$, P$_R$) of the DVD to the **COMPONENT IN VIDEO1** jacks on the set.
Match the jack colors (Y = green, P$_B$ = blue, and P$_R$ = red).

2 Connect the audio outputs of the DVD to the **COMPONENT IN AUDIO1** jacks on the set.
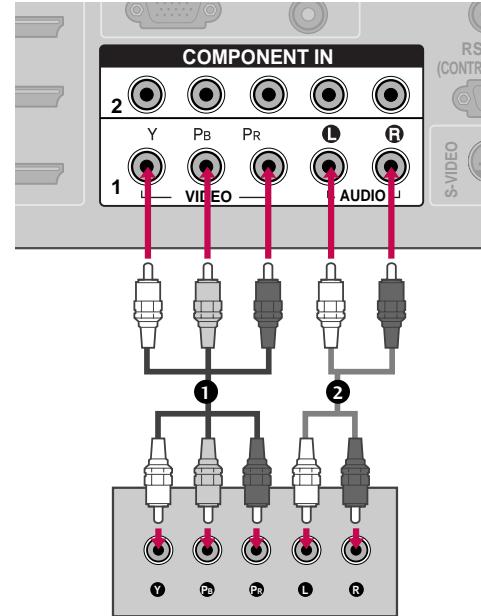
2. How to use

■ Turn on the DVD player, insert a DVD.

■ Select **Component 1** input source by using the **INPUT** button on the remote control.

■ If connected to **COMPONENT IN 2** input, select **Component 2** input source.

■ Refer to the DVD player's manual for operating instructions.

When connecting HDMI cable

1. How to connect

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

2 No separated audio connection is necessary. HDMI supports both audio and video.
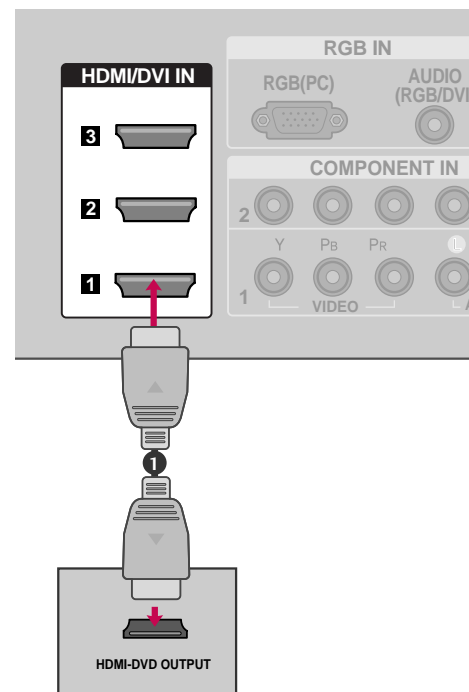
2. How to use

■ Select **HDMI1**, **HDMI2**, or **HDMI3** input source by using the **INPUT** button on the remote control.

■ Refer to the DVD player's manual for operating instructions.

■ If the DVD does not support Auto HDMI, you need to set the output resolution appropriately.

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VCR SETUP

When connecting with a RCA cable

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 **AV1** input source by using the **INPUT** button on the remote control.
- If connected to **AV IN2**, select **AV2** input source.
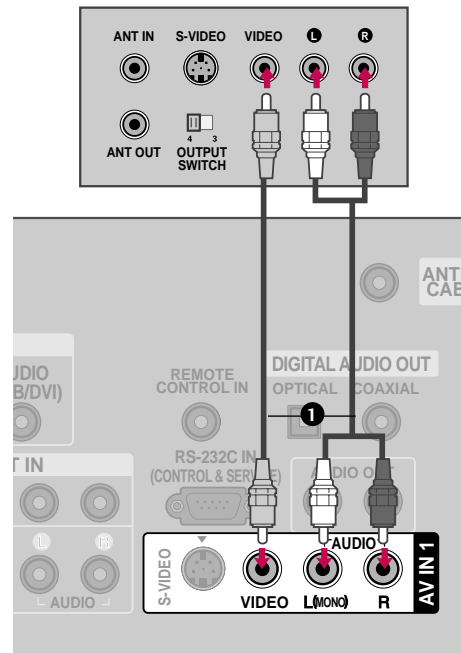
! NOTE ► If you have a mono VCR, connect the audio cable from the VCR to the **AUDIO L/MONO** jack of the set.

When connecting with an S-Video cable

1. How to connect

1 Connect the S-VIDEO output of the VCR to the **S-VIDEO** input on the set.

2 Connect the audio outputs of the VCR to the **AUDIO** input jacks on the set.

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 **AV1** input source by using the **INPUT** button on the remote control.
- If connected to **AV IN2**, select **AV2** input source.

! NOTE

► The picture quality is improved: compared to normal composite (RCA cable) input.
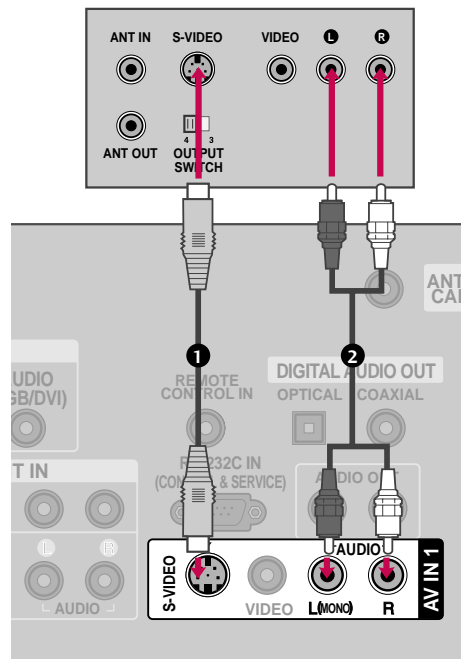
⚠ CAUTION

► 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

When connecting D-sub 15pin cable

1. How to connect

1 Connect the RGB output of the PC to the **RGB (PC)** jack on the set.

2 Connect the PC audio output to the **AUDIO (RGB/DVI)** jack on the set.

2. How to use

■ Turn on the PC and the TV.
■ Select **RGB-PC** input source by using the **INPUT** button on the remote control.
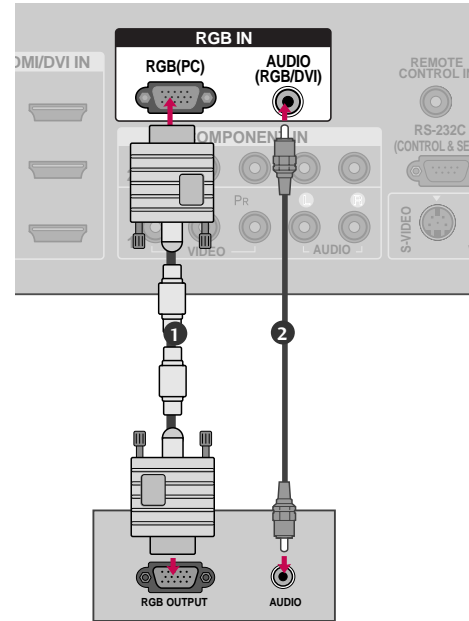
When connecting HDMI to DVI cable

1. How to connect

1 Connect the DVI output of the PC to the **HDMI/DVI IN1**, **2** or **3** jack on the set.

2 Connect the PC audio output to the **AUDIO (RGB/DVI)** jack on the set.

2. How to use

■ Turn on the PC and the TV.
■ Select **HDMI1**, **HDMI2** or **HDMI3** input source by using the **INPUT** button on the remote control.
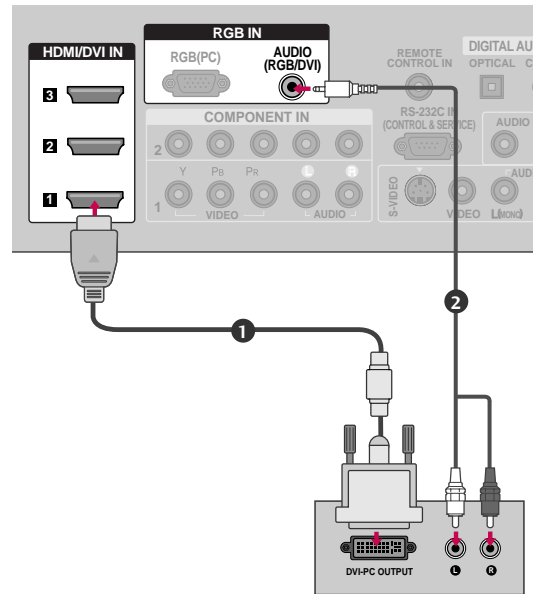
Supported Display Specifications

RGB-PC, HDMI-PC

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
640x350	31.469	70.08
720x400	31.469	70.08
640x480	31.469	59.94
800x600	37.879	60.31
1024x768	48.363	60.00
1280x768	47.776	59.87
1360x768	47.740	59.799
1366x768	47.130	59.65

* RGB-PC mode only

* LCD TV only

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WATCHING TV

TURNING ON THE TV

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

2 Select the viewing source by using the **TV INPUT**, **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 SELECTION

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

VOLUME ADJUSTMENT

Adjust the volume to suit your personal preference.

1 Press the **VOL (▲** or **▼)** button to adjust the volume.

2 If you want to switch the sound off, press the **MUTE** button.

3 You can cancel the Mute function by pressing the **MUTE** or **VOL (▲** or **▼)** button.

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.

A password is required to gain access to Auto Tuning menu if the Lock System is turned on.
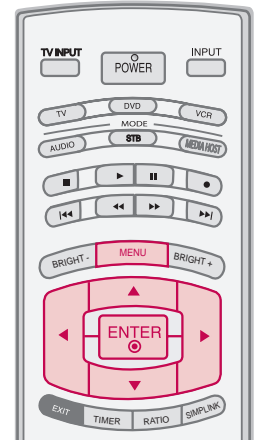
1 Press the **MENU** button and then use ▲ or ▼ button to select the **SETUP** menu.

2 Press the ► button and then use ▲ or ▼ button to select **Auto Tuning**.

3 Press the **ENTER** button to begin the channel search. Allow **Auto Tuning** to complete the channel search cycle for **ANTENNA** and **CABLE**.
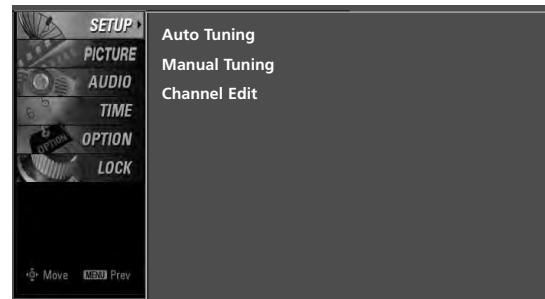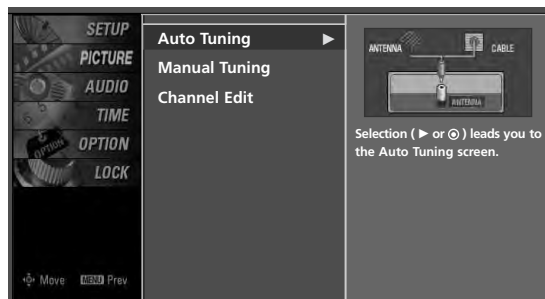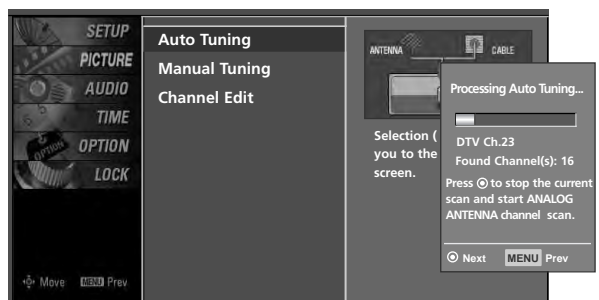
! NOTE

DTV (Digital DTV antenna)
TV (Analog TV antenna)
CADTV (Digital CADTV cable)
CATV (Analog CATV cable)

SETUP
PICTURE
AUDIO
TIME
OPTION
LOCK

Auto Tuning
Manual Tuning
Channel Edit

Move   MENU Prev

1

SETUP
PICTURE
AUDIO
TIME
OPTION
LOCK

Auto Tuning   ►
Manual Tuning
Channel Edit

Selection (► or ⊙) leads you to the Auto Tuning screen.

Move   MENU Prev

2

SETUP
PICTURE
AUDIO
TIME
OPTION
LOCK

Auto Tuning
Manual Tuning
Channel Edit

Processing Auto Tuning...

DTV Ch.23
Found Channel(s): 16

Press ⊙ to stop the current scan and start ANALOG ANTENNA channel scan.

Next   MENU Prev

3

ON-SCREEN MENUS SELECTION

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

1 Press the **MENU** button and then use ▲ or ▼ button to select the each menu.

2 Press the ► button and then use ▲ ▼ ◄ ► button to display the available menus.

SETUP

SETUP	Auto Tuning	
PICTURE	Manual Tuning	
AUDIO	Channel Edit	
TIME		
OPTION		
LOCK		

◄⊕► Move [MENU] Prev

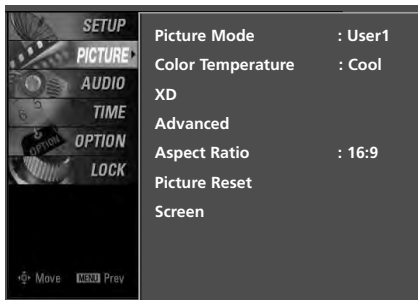| Auto Tuning	▪ All available TV channels are searched and stored automatically.
Manual Tuning	▪ User can do manual channel selection and add or delete individual channels.
Channel Edit	▪ You can add or delete in the channel list.

PICTURE

SETUP	Picture Mode	: User1
PICTURE	Color Temperature	: Cool
AUDIO	XD	
TIME	Advanced	
OPTION	Aspect Ratio	: 16:9
LOCK	Picture Reset	
	Screen	

◄⊕► Move [MENU] Prev

Picture Mode	▪ Select the preset value in the Picture Mode menu based on the program category: Intelligent Eye (LCD TV Only), Dynamic, Standard, Mild, User1, User2.
Color Temperature	▪ Choose one of three automatic color adjustments : Cool, Medium, Warm, User
XD	▪ It is LG Electronic's unique picture improving technology to display a real HD source through an advanced digital signal processing algorithm. ▪ Select Auto or Manual (XD Contrast, XD Color, XD Noise).
Advanced	▪ Cinema 3:2 Mode (On, Off) Set up the TV for the best picture appearance for viewing movies. ▪ Black Level (Low, High) Adjusting the contrast and the brightness of the screen using the black level of the screen.
Aspect Ratio	▪ Select the desired picture format. : Set by program, 4:3, 16:9, Zoom1, Zoom2, Just Scan.
Picture Reset	▪ Use to quickly reset all the Picture menu options to their original factory preset values.
Screen	▪ Adjust the screen Resolution, Position, Size, Phase, Reset.

WATCHING TV

AUDIO

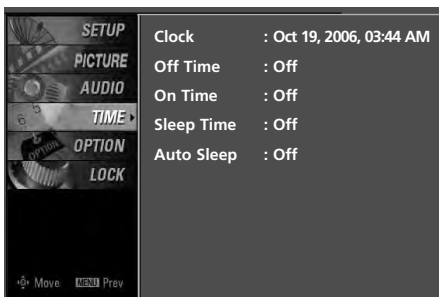|	Sound Mode	: Standard
SETUP PICTURE AUDIO TIME OPTION LOCK	Auto Volume	: On
	Balance	: 0
	TV Speaker	: On

Move MENU Prev
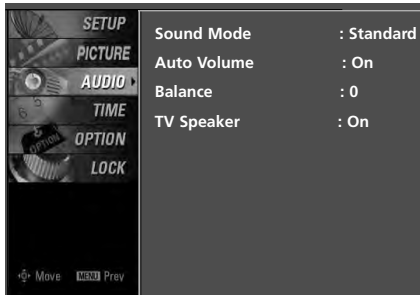
Sound Mode	■ Sound Mode lets you enjoy the best sound without any special adjustment. : Standard, Music, Movie, Sports and User
Auto Volume	■ Scans for changes in sound levels during commercials, then adjusts the sound to match the specified audio level.
Balance	■ Adjust the left/right sound of speaker.
TV Speaker	■ Turn the TV speaker On or off.

TIME

	Clock	: Oct 19, 2006, 03:44 AM
SETUP PICTURE AUDIO TIME OPTION LOCK	Off Time	: Off
	On Time	: Off
	Sleep Time	: Off
	Auto Sleep	: Off

Move MENU Prev

Clock	■ 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	■ Select On or Off.
On Time	■ Select On or Off.
Sleep Time	■ Select the amount of time before your TV turns off automatically: Off, 10, 20,30, 60, 90, 120, 180, 240.
Auto Sleep	■ TV will be automatically turned off, in case of no signal for 10 minutes.

OPTION

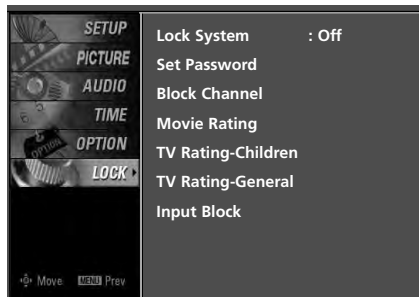|	
Language	■ Select your desired language for on screen menus : English, Spanish, French.
Input Label	■ Set a label to each input source.
SimpLink	■ Control and play other AV devices connected to the TV through HDMI cable without additional cables and settings.
key Lock	■ This feature can be used to prevent unauthorized viewing by locking out the front panel controls.
Caption	■ Mode: When selecting Off, Submenus for Analog, DTV, and Digital Option become disabled. ■ Analog: CC1~ CC4 , Text1~ Text4. ■ Digital: Service1~ Service6 ■ Digital Option: Customize the DTV/CADTV captions that appear on your screen.
ISM Method	■ Use it to minimize any fixed image on the screen. : Normal, Orbiter, Inversion, White Wash.
Low Power	■ Reduces the plasma display power consumption.
Set ID	■ Choose the desired TV ID number.

LOCK

For USA

For Canada

Lock System	■ Select On or Off.
Set Password	■ Change the password.
Block Channel	■ Select a channel number that you wish to block.
Movie Rating	■ Blocks movies according to the movie ratings limits specified.
TV Rating-Children	■ Prevents children from watching certain children's TV programs, according to the ratings limit set.
TV Rating-General	■ Based on the ratings, blocks certain TV programs that you and your family do not want to view.
TV Rating-English	■ Selecting canadian english language rating system.
TV Rating-French	■ Selecting canadian french language rating system.
Input Block	■ Enables you to select a source to block from the external source devices you have hooked up.

MEDIA*HOST*

ENTRY MODES

When you connect a USB device or press the 🖾 button, this screen is displayed, automatically.

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

1 Press the ▲ or ▼ button to select the desired item.

2 Press the **ENTER** button to move to **Photo List** or **Music List** of USB device.

3 Press the **USB EJECT** button of remote control before removing the USB device.

MEDIA HOST

ⓘ NOTE

▶ Press the **USB EJECT** button of remote control before removing the USB device.
▶ Only a USB storage device is recognizable.
▶ If the USB storage device is connected through a USB hub, the device is not recognizable.
▶ A USB storage device using an automatic recognition program may not be recognized.
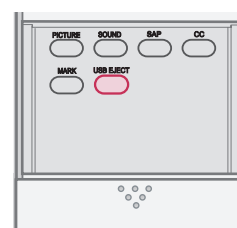▶ A USB storage device which uses its own driver may not be recognized.
▶ In case of a card reader, up to four memory cards are concurrently recognizable.
▶ The recognition speed of a USB storage device may depend on each device.
▶ Please do not turn off the TV or unplug the USB device when the connected USB storage device is working. When such device is suddenly separated or unplugged, the stored files or the USB storage device may be damaged. To unplug the USB storage device, please press the **USB EJECT** button on the remote control, and then unplug it safely.
▶ Please do not connect the USB storage device which was artificially maneuvered on the PC. The device may cause the product to malfunction or

fail to be played. Never forget to use only a USB storage device which has normal music files or image files.
▶ Please use only a USB storage device which was formatted as a FAT or a NTFS file system provided with the Windows operating system. In case of a storage device formatted as a different utility program which is not supported by Windows, it may not be recognized.
▶ In case of a hard disk drive (HDD) formatted as NTFS, writing and deletion are not allowable.
▶ Please connect power to a USB storage device which requires an external power supply. If not, the device may not be recognized.
▶ Please connect a USB storage device with cable is offered by USB maker. If connected with cable is not offered by USB maker or an excessively long cable, the device may not be recognized.
▶ Some USB storage devices may not be supported or operated smoothly.
▶ If the name of a folder or file is too long, it will not be displayed or recognized.

PHOTO LIST

It's available to playback the photo file(*.jpg) in the USB device.
The On Screen Display may be different from your set. Images are an example to assist with the TV operation.

Screen Components

① Usable USB memory

② Current page/Total pages
③ Total number of marked thumbnail photos
④ Corresponding buttons on the remote control

Photo Selection and PopUp Menu

As shown, up to 15 thumbnail photos are listed per page.

① Use the **CH ▲** or **▼** button to navigate in the thumbnail photo page.

② Use the **MARK** button to mark or unmark a photo. When one or more photos are marked, you can view individual photos or a slide show of the marked photos. If no photos are marked, you can view all photos individually or all photos in the folder in a slide show.

③ Use ▲ ▼ ◄ ► button to navigate the appropriate thumbnail photos, then press the **ENTER** button to show the PopUp menu.

> ► **View** : Display the selected item.
> ► **Mark All** : Mark all photos on the screen.
> ► **Delete** : Delete the selected photo item.
> ► **Cancel** : Close the pop-up menu.

④ Repeatedly, press **EXIT** button to return to TV viewing or press the ⬛ button to return to the Media Host menu.

MEDIA HOST

MEDIA HOST

Set up the menu in Full-Sized Screen

You can change the settings to display photos stored on a
USB device, on a full-sized screen.

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

1 Use the **CH ▲** or **▼** button to navigate the thumbnail
photo page.

2 Use **▲ ▼ ◄ ►** button to navigate the appropriate
thumbnail photos, then press the **ENTER** button to
show the PopUp menu.

3 Use **▲** or **▼** button to Move to the **View** menu, then
press the **ENTER** button.

4 The selected photo is displayed in full size.

▶ **Slide Show**: When no picture is selected, all photos in
the current folder are displayed during slide show. When
selected, the selected photos are displayed during slide
show. To start slide show, press **ENTER** button on
Slideshow ▷

■ Set the time interval of the slide show in **Option**.

■ A slide show continues for a maximum of 4 hours.
After 4 hours, the slide show will end and go to TV
mode or external input mode.

▶ **BGM**: Listen to music while viewing photos in full size.
To start BGM, press **ENTER** button on BGM ▷ .

■ Set the BGM device and album in **Option**.

▶ ↻ (**Rotate**): Rotate photos.

■ Rotates the photo 90°, 180°, 270°, 360° clockwise
upon **ENTER** button on ↻ (**Rotate**).

▶ **Delete**: Delete photos. Use **◄** or **►** button to select
Delete and press **ENTER** button.

▶ **Option**: Set values for **Slide Speed** and **Music fold-
er**. Use **◄** or **►**button to select **Option** and press
ENTER button.

■ Use **◄** or **►** button and **ENTER** button to set values.
Then go to Enter and press **ENTER** to save the settings.

■ You cannot change **Music Folder** while BGM is playing.
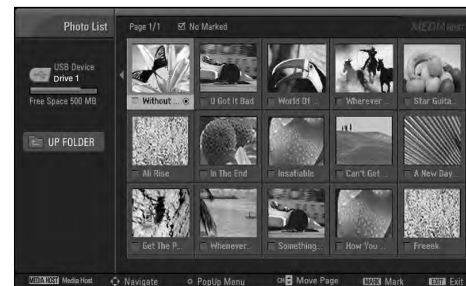
① ② ③

The aspect ratio of a photo may change the size **④**
of the photo displayed on the screen in full size.

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▶ **Hide**: Hide the menu on the full-sized screen. Use ◀ or ▶ button to select **Hide** and press **ENTER** button.
  ▪ To see the menu again on the full-sized screen, press **ENTER** button to display.

[ⅰ] Press ◀ ▶ to set the time interval between slides.

Slide Speed   ◀   **Fast**   ▶
Music Folder   **Drive 1**

Enter   Cancel

5 Use ▲ ▼ ◀ ▶ button to select the previous or next photo.
Use ▲ ▼ ◀ ▶ button to select and control the menu on the full-sized screen.

6 Use **EXIT** button to go back to the photo list from the full-sized screen.

❶ NOTE
▶ If it is Progressive JPEG format, some photos may be not decorded.
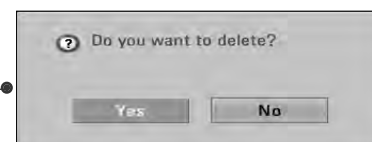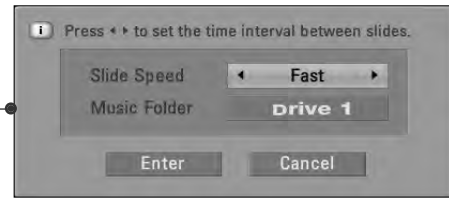
7 Repeatedly, press **EXIT** button to return to TV viewing or press (MEDIA HOST) button to return to the Media Host menu.

MUSIC LIST

Purchased music files(*.MP3) may contain copyright restrictions. Playback of these files may not be supported by this model.
Music file on your USB device can be played by this unit.
The On Screen Display may be different from your set. Images are an example to assist with the TV operation.

Screen Components

❶ Usable USB memory

USB Device
Drive 1
Free Space 500 MB
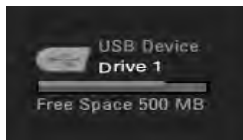
❷ Current page/Total pages
❸ Total number of marked musics
❹ Current playing time/Total playing time
❺ Corresponding buttons on the remote control

Music List	Num 1/8	☑ No Marked		

00:05/04:20 Without Me

USB Device
Drive 1
Free Space 500 MB

⬆ UP FOLDER

Without Me	⦿	04:20
U Got It Bad		04:40
World Of Our Own		05:00
Wherever You Will Go I Will Stay With You ...		04:20
Star Guitars		04:40
All Rise		05:00
In The End		04:50
Insatiable		04:40

MEDIA HOST Media Host   ◇ Navigate   ○ PopUp Menu   CH Move Page   MARK Mark   EXIT Exit

MEDIA HOST

Music Selection and PopUp Menu

As shown , up to 8 music titles are listed per page.

1 Use the **CH ▲** or **▼** button to navigate in the music titles page.

2 Use **MARK** button to mark or unmark a music. When one or more music files are marked, the marked musics will be played in sequence. For example, if you want to listen to only one music repeatedly, just mark the music only and play it. If no music is marked, all the music in the folder will be played in sequence.

3 Use **▲ ▼** button to navigate the appropriate musics, then press the **ENTER** button to show up the pop-up menu.

> ▶ **Play** (During stop): Play the selected musics.
> Once a music finishes playing, the next selected one will be played. When there are no selected musics to play, the next one in the current folder will be played. If you go to a different folder and press the **ENTER** button, the current music in playback will stop.
>
> ▶ **Stop Play** (During playback): Stop the playing musics.
>
> ▶ **Play With Photo**: Start playing the selected musics and then move to the Photo List.
>
> ▶ **Mark All**: Mark all musics in the folder.
>
> ▶ **Delete**: Delete the selected musics.
>
> ▶ **Cancel**: Close the pop-up menu.

4 Repeatedly, press **EXIT** button to return to TV viewing or press (MEDIAHOST) button to return to the Media Host menu.

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

■ The 'Screen Saver'?
Screen saver is to prevent screen pixel damage due to an fixed image remaining on the screen for a extended period of time.

| ▶ 00:20/04:20 Without Me |
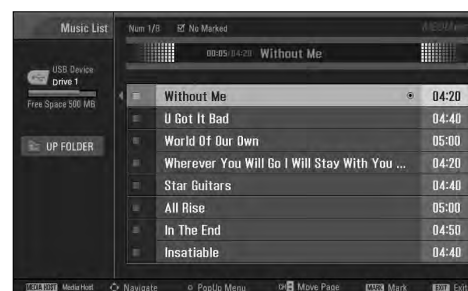
1 2 3

! NOTE

▶ When music is playing, 🎵 is displayed in front of the music title.

▶ A damaged or corrupted music does not play but displays 00:00 in playtime.

▶ A music downloaded from a paid service with copyright protection does not start but displays inappropriate information in playtime.

▶ If you press **ENTER**, ■ , **EXIT** buttons, screen saver is stopped.

▶ The ▶ , ❚❚ , ■ , ◀◀ , ▶▶ buttons on the remote control are also available in this mode.

▶ It's not available to play MP3 file under 16Kbyte.

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. ■ No broadcast on station tuned with Auto off activated.

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 five minutes.
No or poor color or poor picture	■ Adjust Color in menu option. ■ Keep a sufficient distance between the product and the VCR. ■ 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 to receive weaker station. ■ Check for sources of possible interference.
Lines or streaks in pictures	■ Check antenna (Change the direction of the antenna).

The audio function does not work.	
Picture OK & No sound	■ 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	■ Adjust Balance in menu option.
Unusual sound from inside the product	■ 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.

There is a problem in PC mode. (Only PC mode applied)	
The signal is out of range	■ Adjust resolution, horizontal frequency, or vertical frequency. ■ Check the input source.
Vertical bar or stripe on background & Horizontal Noise & Incorrect position	■ Work the Auto configure or adjust clock, phase, or H/V position. (Option)
Screen color is unstable or single color	■ Check the signal cable. ■ Reinstall the PC video card.

MAINTENANCE

Early malfunctions can be prevented. Careful and regular cleaning can extend the amount of time you can enjoy your new TV.
Caution: Be sure to turn the power off and unplug the power cord before you begin any cleaning.

Cleaning the Screen

1 Here's a great way to keep the dust off your screen for a while. Wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen.

2 Make sure the excess water is off the screen, and then let it air-dry before you turn on your TV.

Cleaning the Cabinet

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

Extended Absence

⚠ CAUTION

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

PRODUCT SPECIFICATIONS

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

MODELS		42PB4DA (42PB4DA-UA)	50PB4DA (50PB4DA-UA)	60PB4DA (60PB4DA-UA)
Dimensions (Width x Height x Depth)	Including stand	44.5 x 30.2 x 12.2 inches 1130.0 x 768.1 x 310.4mm	51.5 x 35.7 x 14.6 inches 1308.0 x 906.1 x 370.0 mm	60.9 x 41.8 x 17.6 inches 1548.0 x 1061.0 x 448.0 mm
	Excluding stand	44.5 x 28.1 x 3.3 inches 1130.0 x 715.0 x 85.0 mm	51.5 x 33.3 x 3.5 inches 1308.0 x 845.0 x 89.5 mm	60.9 x 38.9 x 3.9 inches 1548.0 x 987.5 x 98.5 mm
Weight	including stand excluding stand	75.8 pounds / 34.4 kg 68.0 pounds / 30.8 kg	101.0 pounds / 45.8 kg 81.8 pounds / 37.1 kg	155.4 pounds / 70.5 kg 132.3 pounds / 60.0 kg
Power requirement Television System Program Coverage External Antenna Impedance		AC100-240V ~ 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%		

MODEL		32LB9D (32LB9D-UJ)
Dimensions (Width x Height x Depth)	Including stand	31.7 x 24.4x 11.2 inches 805.8 x 619.7 x 283.9 mm
	Excluding stand	31.7 x 21.8 x 3.1 inches 805.8 x 554.1 x 79.0 mm
Weight	including stand excluding stand	32.6 pounds / 14.8 kg 27.8 pounds / 12.6 kg
Power requirement Television System Program Coverage External Antenna Impedance		AC100-240V ~ 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%

APPENDIX

OPEN SOURCE SOFTWARE NOTICE

The following GPL executables and LGPL/MPL libraries used in this product are subject to the GPL/LGPL/MPL License Agreements:

GPL EXECUTABLES:
- Linux kernel 2.6.12
- busybox

LGPL LIBRARIES:
- uclibc

MPL LIBRARIES:
- Nanox

LG Electronics offers to provide source code to you on CD-ROM for a charge covering the cost of performing such distribution, such as the cost of media, shipping and handling upon e-mail request to LG Electronics at: Opensource@lge.com

This offer is valid for a period of three(3) years from the date of the distribution of this product by LG Electronics.

You can obtain a copy of the GPL, LGPL and MPL licenses on the CD-ROM provided with this product.

- This software is based in part on the work of the Independent JPEG Group.
- This software includes the Zlib compression library, developed by Jean-loup Gailly and Mark Adler. Copyright (C) 1995-2005 Jean-loup Gailly and Mark Adler