



**LG Electronics Inc.**

## LCD TV | PLASMA TV OWNER'S MANUAL

### LCD TV MODELS

**26LC2R  
32LC2R  
32LC3R**

### PLASMA TV MODELS

**42PC1R  
42PC1RV  
42PC1RVH  
42PC7R  
42PC7RH**

Please read this manual carefully and completely 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.



# WARNING

WARNING

## 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 :

### WARNING

**Read these instructions.**

**Keep these instructions.**

**Heed all warnings.**

**Follow all instructions.**



- 1 Do not place the product in direct sunlight or near heat sources such as heat registers, stove and so on.

This may cause a fire.



- 2 Do not use the product in damp place such as a bathroom or any place where it is likely to get wet.

This may cause a fire or could give an electric shock.



- 3 Bend antenna cable between inside and outside building to prevent rain from flowing in.

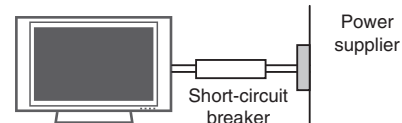
This may cause water damaged inside the product and could give an electric shock.

- 4 Earth wire should be connected.

If the earth wire is not connected, there is possible a danger of electric shock caused by the current leakage.

If grounding methods are not possible, a separate circuit breaker should be employed and installed by a qualified electrician.

Do not connect ground to telephone wires, lightning rods or gas pipe.



- 5 Do not placing anything containing liquid on top of the product.

This may cause a fire or could give an electric shock.



- 6 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 the apparatus.

- 7 Do not insert any object into the exhaust vent.

This may cause a fire or could give an electric shock.

- 8 Do not place heavy objects on the product.

This may cause serious injury to a child or adult.

# WARNING

WARNING

## IMPORTANT SAFETY INSTRUCTIONS

### WARNING

- 9** Do not use water the product while cleaning.  
This may cause damaged the product or could give an electric shock.



- 10** In case of smoke or strange smell from the product, switch it off, unplug it from the wall outlet and contact your dealer or service center.

This may cause a fire or could give an electric shock.

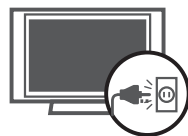
- 11** Do not attempt to service the product yourself. Contact your dealer or service center.

This may cause damaged the product or could give an electric shock.



- 12** During a lightning thunder, unplug the product from the wall outlet and don't touch an antenna cable.

This may cause damaged the product or could give an electric shock.



### NOTE

- 1** Never touch the power plug with a wet hand.  
This may cause an electric shock.

- 2** Disconnect from the mains and remove all connections before moving.

- 3** Do not place the product in a built-in installation such as a bookcase or rack.

Ventilation required.

- 4** When installing the product on a table, be careful not to place the edge of its stand.

This may cause the product to fall, causing serious injury to a child or adult, and serious damage to the product.

- 5** Do not place an outside antenna in the vicinity of overhead power lines or other electric light or power circuits.

This may cause an electric shock.

- 6** There should be enough distance between an outside antenna and power lines to keep the former from touching the latter even when the antenna falls.

This may cause an electric shock.

- 7** Do not pull the cord but the plug when unplugging.

This may cause a fire.

# WARNING

## NOTE

- 8** Ensure the power cord doesn't trail across any hot objects like a heater.

This may cause a fire or an electric shock.

---
- 9** Do not plug when the power cord or the plug is damaged or the connecting part of the power outlet is loose.

This may cause a fire or an electric shock.

---
- 10** Dispose of used batteries carefully to protect a child from eating them.

In case that it eats them, take it to see a doctor immediately.

---
- 11** When moving the product assembled with speakers do not carry holding the speakers.

This may cause the product to fall, causing serious injury to a child or adult, and serious damage to the product.

---
- 12** Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.

This may cause damaged the product or could give an electric shock.

- 13** Contact the service center once a year to clean the internal part of the product.

Accumulated dust can cause mechanical failure.

---
- 14** The distance between eyes and the screen should be about 5 - 7 times as long as diagonal length of the screen.

If not, eyes will strain.

---
- 15** Unplug the product from the wall outlet when it is left unattended and unused for long periods of time.

Accumulated dust may cause a fire or an electric shock from deterioration or electric leakage.

---
- 16** Only use the specified batteries.

This make cause damaged the product or could give an electric shock.

WARNING

# CONTENTS

WARNING .....	1
BENEFIT .....	6
ACCESSORIES .....	7

## INTRODUCTION

Controls / Connection Options .....	8-11
Remote Control Key Functions .....	12-13

## INSTALLATION

Stand Installation / Desktop pedestal Installation	14-15
Altitude .....	16
How to join the product assembly to the wall to protect the set tumbling .....	17
Basic Connection / How to Remove the Cable Management .....	18-19

## CONNECTIONS & SETUP

Antenna Connection .....	20
VCR Setup .....	21-22
External Equipment Connection .....	22
DVD Setup .....	23-24
STB(SET-TOP BOX) Setup .....	25-26
PC Setup .....	27-28
Turning the TV On .....	29

## SPECIAL FUNCTIONS

<b>PIP (Picture-In-Picture)</b>	
Watching PIP .....	30
Channel Selection for Sub Picture .....	30
Input Source Selection for Sub Picture .....	30
Sub Picture Size Adjustment (PIP mode only) .....	30
Moving the Sub Picture (PIP mode only) .....	30

## TV MENU

On Screen Menus Selection and Adjustment .....	31
------------------------------------------------	----

### Channel Menu Options

Auto program: Channel Search .....	32
Manual program: Adding/Deleting Channels .....	33
Fine tuning .....	34
Favorite Channels Setup .....	35

### Picture Menu Options

Auto Picture Control (APC) .....	36
Picture Adjustment (APC-User option) .....	37
Auto Color Temperature Control (ACC) .....	38
Manual Color Temperature Control (ACC - User option) .....	39
<b>XD</b> Function .....	40
Advanced-Cinema .....	41
Advanced-Black level .....	42
Reset .....	43

### Sound Menu Options

Digital Auto Sound Processing (DASP) .....	44
Sound Frequency Adjustment (DASP - User option) .....	45
Auto Volume Leveler (AVL) .....	46
Stereo/SAP Broadcasts Setup .....	46
Balance Adjustment .....	47
Speaker .....	48

### Time Menu Options

Clock Setup .....	49
On/Off Timer .....	50
Auto Off .....	51
Sleep Timer .....	51

### Special Menu Options

Language .....	52
Key Lock .....	53
ISM (Image Sticking Minimization) Method .....	54
Low Power .....	55
Closed Captions .....	56
XD Demo .....	57

## TV MENU

### Screen Menu Options

Auto Configure (RGB [PC] mode only) .....	58
Manual Configure .....	59
Setting the Picture Format .....	60
Selecting Wide VGA/XGA mode .....	61
Initializing (Reset to original factory settings) .....	62

## APPENDIX

External Control Device Setup .....	63-69
IR Codes .....	70
Remote control IR codes .....	71
Programming the Remote .....	72
Programming code .....	72-73
Troubleshooting Checklist .....	74-75
Maintenance .....	76
Product Specifications .....	77-79

## BENEFIT

### What is a Plasma TV ?

Using plasma is the best way to achieve flat panel displays with excellent image quality and large screen sizes that are easily viewable. The Plasma TV can be thought of as a descendant of the neon lamp and or a series of fluorescent lamps.

### How does it work?

Plasma TV is an array of cells, known as pixels, which are comprised of three sub-pixels, corresponding to the colors red, green, and blue. Gas in a plasma state is used to react with phosphors in each sub-pixel to produce colored light (red, green, or blue). These phosphors are the same types used in Cathode Ray Tube (CRT) devices such as televisions and common computer monitors.

Plasma TV offers a rich, dynamic display because each sub-pixel is individually controlled by advanced electronics to produce over 16 million different colors. This means that you get perfect images that are easily viewable in a display that is fewer than five inches thick.

### 160° - Wide angle range of vision

Your flat panel plasma screen offers an exceptionally broad viewing angle of over 160 degrees. This means that the display is clear and visible to viewers anywhere in the room.

### Wide Screen

The wide screen offers a theater-like experience in your own home.

### Multimedia

Connect your plasma display to a PC and use it for conferencing, games, and Internet browsing. The Picture-in-Picture feature allows you to view your PC and video images simultaneously.

### Versatile

The light weight and thin size makes it easy to install your plasma display in a variety of locations where conventional TVs do not fit.

### The Plasma TV Manufacturing Process: a few minute colored dots may be present on the Plasma TV screen

The Plasma TV is composed of 0.9 to 2.2 million cells. A few cell defects will normally occur in the Plasma TV manufacturing process. Several tiny, minute colored dots visible on the screen should be acceptable. This also occurs in other Plasma TV manufacturers' products. The tiny dots appearing does not mean that this Plasma TV is defective. Thus a few cell defects are not sufficient cause for the Plasma TV to be exchanged or returned. Our production technology minimizes these cell defects during the manufacture and operation of this product.

### FOR LCD TV

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

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

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

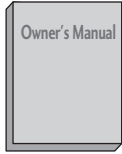
### On Disposal

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

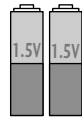


# ACCESSORIES

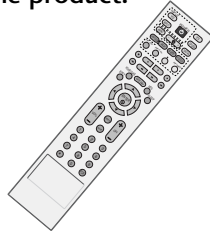
Ensure that the following accessories are included with your product. If an accessory is missing, please contact the dealer where you purchased the product.



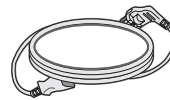
Owner's Manual



Batteries (some models)



Remote Control



Power Cord



RF Adapter

You must connect it to the antenna wire after fixing in Antenna Input. This adapter is only supplied in Argentina.

## For 42PC1R\*/42PC7R\*



2-Wall brackets

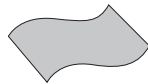


2-eye-bolts

### 42PC1R\* only



2-bolts for stand assembly (Refer to p.14.)



Polishing cloth  
Polish the screen with the cloth.

\* Slightly wipe stained spot on the exterior only with the cleansing cloths for the product exterior if there is stain or fingerprint on surface of the exterior.  
\* Do not wipe roughly when removing stain. Please be cautious of that excessive power may cause scratch or discoloration.

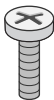
## For 26LC2R/32LC2R/32LC3R\*



2-TV brackets  
2-Wall brackets



Twister Holder  
Arrange the wires with the twister holder.



2-TV bracket bolts

### 32LC2R\* only



Cable Management (Refer to p.19)



4-bolts for stand assembly (Refer to p.15)

### 32LC3R\* only



Cable Management (Refer to p.19)

# INTRODUCTION

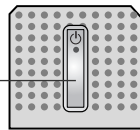
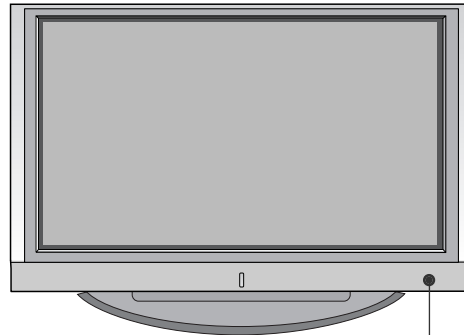
## CONTROLS

This is the front panel of models 42PC1R\* TVs.

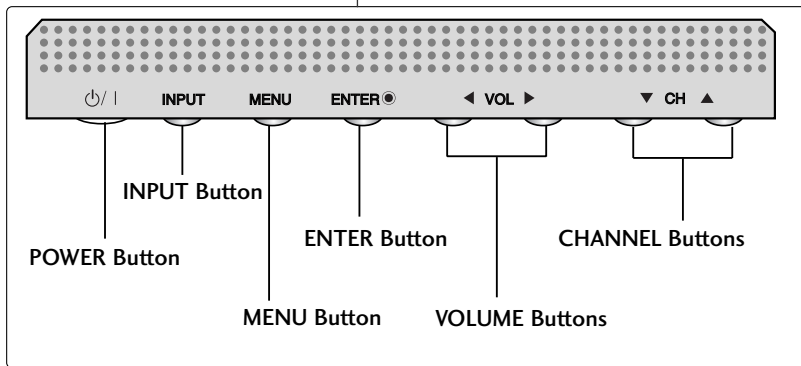
- This is a simplified representation of the front panel. Here shown may be somewhat different from your TV.

### Front Panel Controls

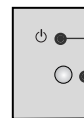
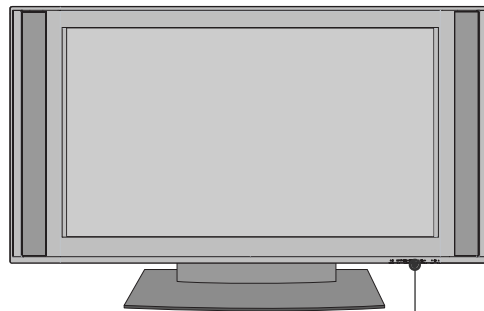
42PC1R\*



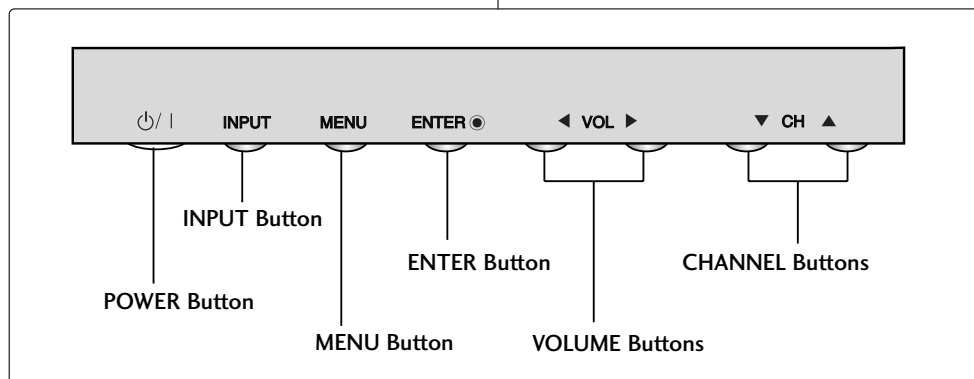
Power/Standby Indicator  
• illuminates red in standby mode.  
• illuminates white when the set is switched on.



42PC7R\*

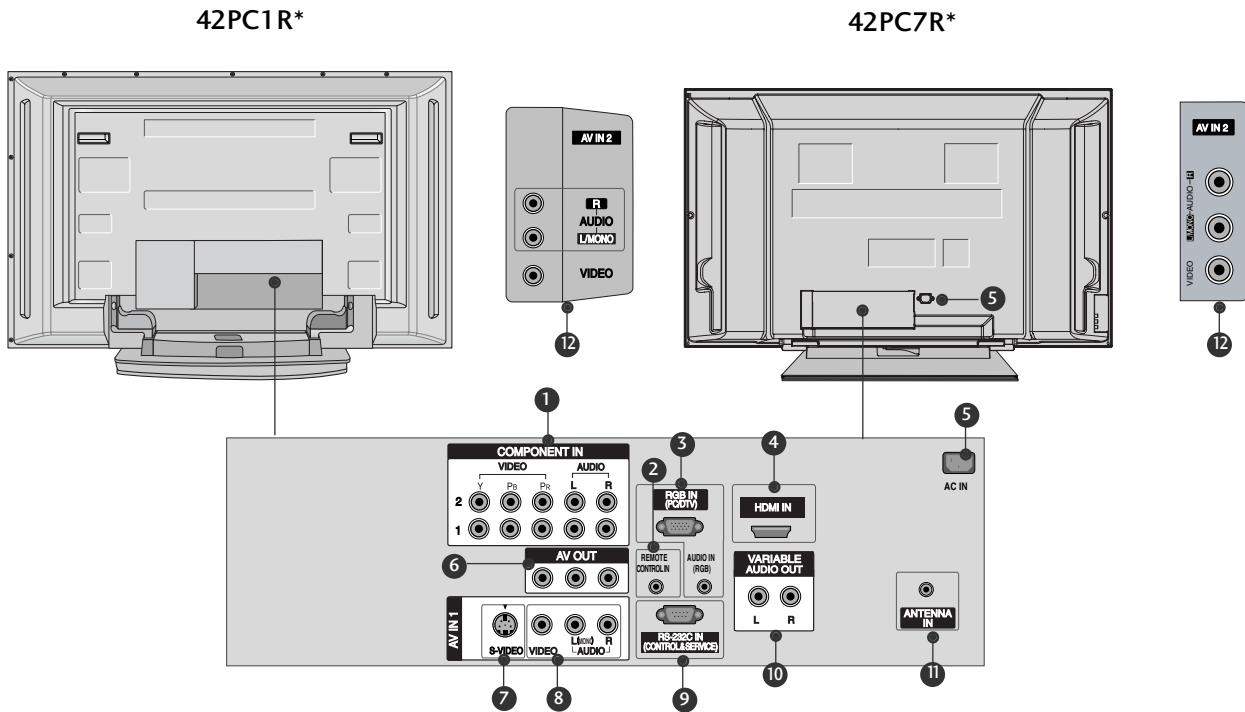


Power/Standby Indicator  
• illuminates red in standby mode.  
• illuminates green when the set is switched on.  
Remote Control Sensor



# CONNECTION OPTION

This is the back panel of model 42PC1R\*.



- 1 Component Input 1/2**  
Connect a component video/audio device to these jacks.
- 2 Remote Control Port**  
Connect your wired remote control here.
- 3 RGB/Audio Input**  
Connect the monitor output from a PC to the appropriate input port.
- 4 HDMI**  
Connect a HDMI signal to HDMI port with HDMI cable.
- 5 Power Cord Socket**  
This TV operates on an AC power. The voltage is indicated on the product Specifications page. Never attempt to operate the TV on DC power.
- 6 AV OUT**  
Connect a second TV or Monitor.
- 7 S-Video Input**  
Connect S-Video out from an S-VIDEO device.
- 8 Audio/Video Input**  
Connect audio/video output from an external device to these jacks.
- 9 RS-232C INPUT (CONTROL/SERVICE) PORT**  
Connect the serial port of the control devices to the RS-232C jack.
- 10 Variable Audio Output**  
Connect an external amplifier or add a subwoofer to your surround sound system.
- 11 Antenna Input**  
Connect over-the-air signals to this jack.
- 12 AUDIO Input**  
Connections are available for listening stereo sound from an external device.  
**VIDEO Input**  
Connects the video signal from a video device.

# INTRODUCTION

## CONTROLS

This is the front panel of models 26/32LC2R/32LC3R TVs.

- This is a simplified representation of the front panel. Here shown may be somewhat different from your TV.

### Front Panel Controls

26/32LC2R



Remote Control Sensor

Power/Standby Indicator

- illuminates red in standby mode.
- illuminates white when the set is switched on.

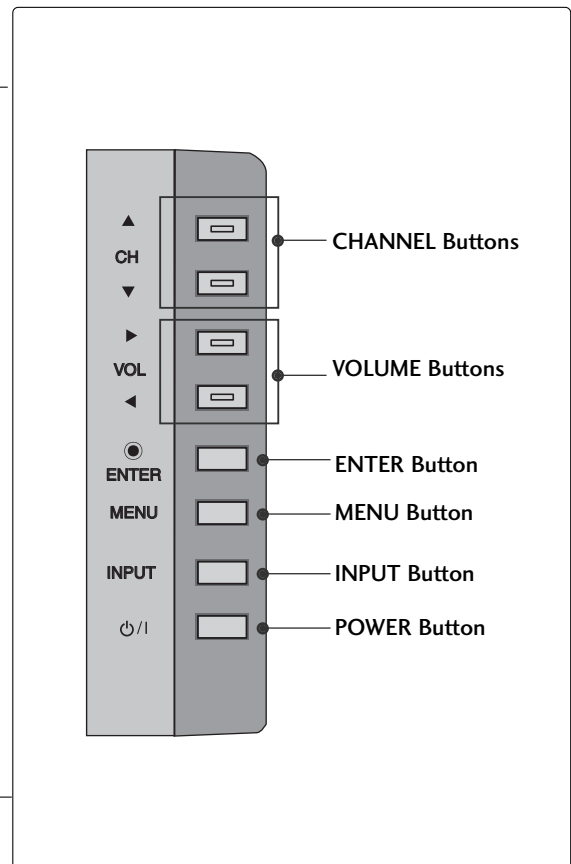
32LC3R



Remote Control Sensor

Power/Standby Indicator

- illuminates red in standby mode.
- illuminates white when the set is switched on.



CHANNEL Buttons

VOLUME Buttons

ENTER Button

MENU Button

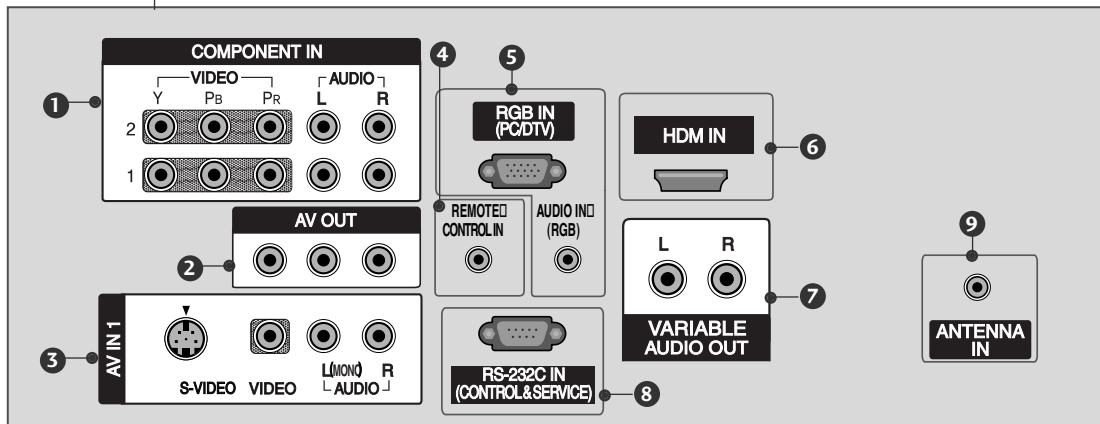
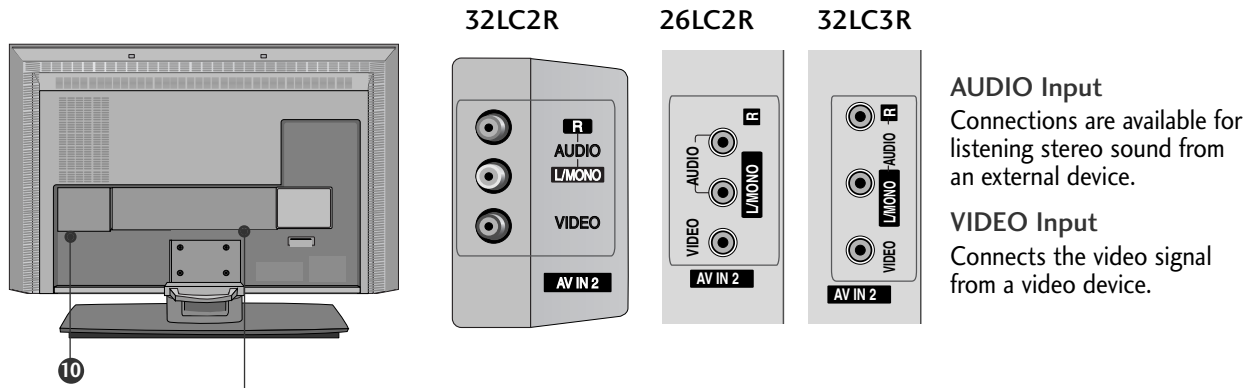
INPUT Button

POWER Button

# CONNECTION OPTIONS

This is a back panel of 26LC2R/32LC2R/32LC3R.

## Back Connection Panel



- 1 COMPONENT IN**  
Connect a component video/audio device to these jacks.
- 2 AV OUT**  
Connect a second TV or monitor.
- 3 AV (Audio/Video) IN 1**  
Connect audio/video output from an external device to these jacks.  
**S-VIDEO**  
Connect S-Video out from an S-VIDEO device.
- 4 Remote Control Port**  
Connect your wired remote control.
- 5 RGB/AUDIO IN**  
Connect the monitor output from a PC to the appropriate input port.
- 6 HDMI IN**  
Connect a HDMI signal.  
Or DVI(VIDEO) signal to this port with a DVI to HDMI cable.
- 7 VARIABLE AUDIO OUT**  
Connect an external amplifier or add a subwoofer to your surround sound system.
- 8 RS-232C IN (CONTROL & SERVICE) PORT**  
Connect to the RS-232C port on a PC.
- 9 ANTENNA IN**  
Connect over-the-air signals to this jack.
- 10 Power Cord Socket**  
For operation with AC power.  
Caution: Never attempt to operate the TV on DC power.

# INTRODUCTION

## REMOTE CONTROL KEY FUNCTIONS

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



INTRODUCTION

**POWER** Turns your TV or any other programed equipment on or off, depending on mode.

**TV INPUT** Returns to the TV mode.

**INPUT** If you press the button once, the input source OSD will appear on screen as shown. Press the ▲ / ▼ button and then ENTER button to select the desired input source (TV, AV1, AV2, Component 1, Component 2, RGB, or HDMI).

**ARC** Selects your desired picture format.

► Refer to p.60

**Brightness adjustment** Adjusts screen brightness. It returns to the default settings brightness by changing mode source.

**PIP** Switches the sub picture PIP, DW mode.

**SIZE** Adjusts the sub picture size.

**POSITION** Moves the sub picture.

**PIP CH - /+** Selects a channel for the sub picture.

\* Not funtional

**PIP INPUT** Selects the input source for the sub picture in PIP/Twin picture mode.

**VCR/DVD control buttons** Controls some video cassette recorders or DVD players when you have already selected DVD or VCR mode button.

**EXIT** Clears all on-screen displays and returns to TV viewing from any menu.

**MEMORY/ERASE** Memorizes or erases selected channel.

**MENU** Selects a menu.

**MTS** Selects the MTS sound: **Mono**, **Stereo**, or **SAP**.

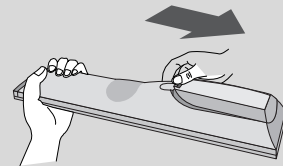
**SLEEP** Sets the sleep timer.



- CAPTION** Selects CAPTION mode.
- THUMBSTICK** (Up/Down/Left/Right) Allows you to navigate the on-screen menus and adjust the system settings to your preference.
- ENTER** Accepts your selection or displays the current mode.
- MODE** Selects the remote operating modes.
- VOLUME UP/DOWN** Increases/decreases the sound level.
- REVIEW** Returns to the previously viewed channel.
- MUTE** Switches the sound on or off.
- CHANNEL UP/DOWN** Selects available channels found during Manual scan.
- 0~9 number button** Selects a channel.  
Selects numbered items in a menu.
- FCR** Selects a favorite channel.

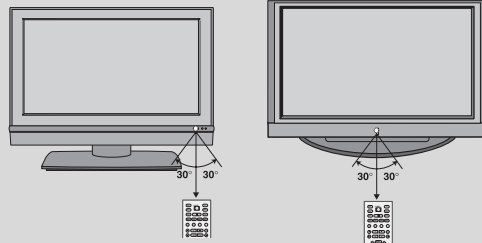
### Installing Batteries

- 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.

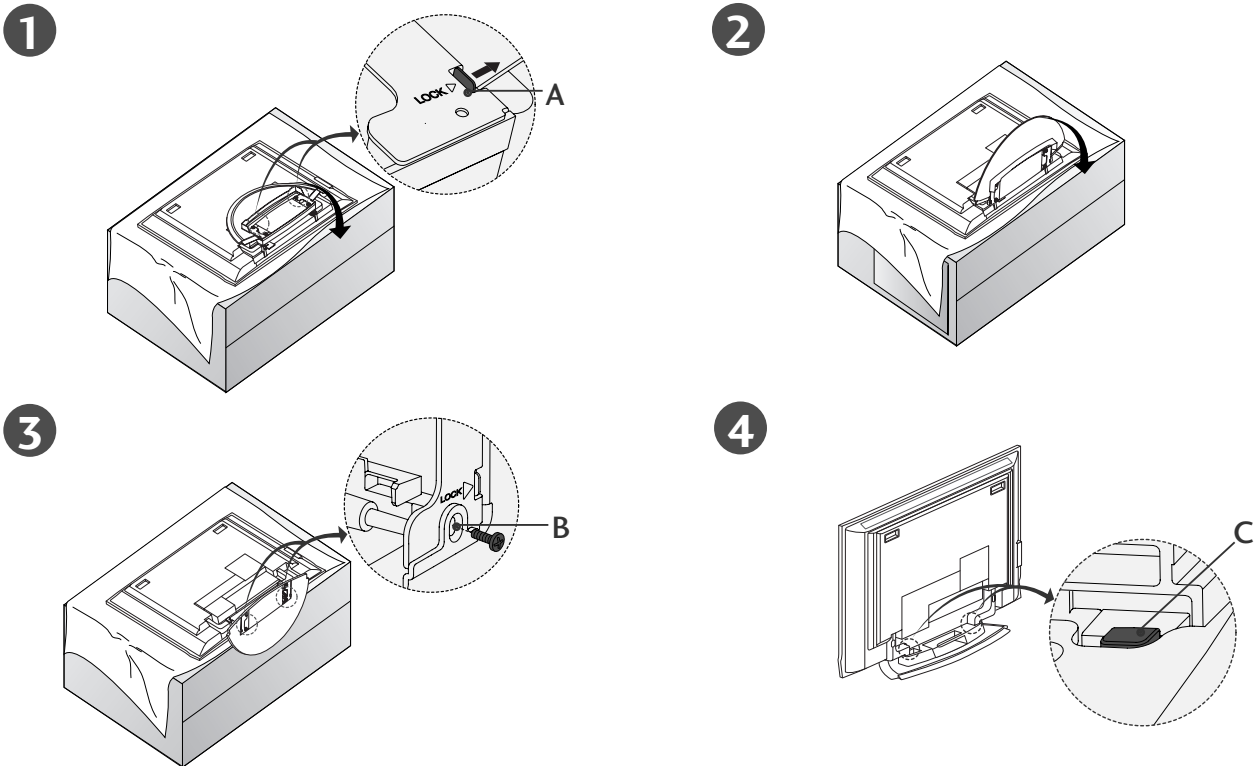


# INSTALLATION

## STAND INSTALLATION

### Installation Instruction Unfolding the stand base

- This feature is not available for all models.



- Place the set with the screen facing down on a cushion or soft cloth as shown in Figures 1. Before unfolding the stand, please make sure two locks (A) on the bottom of the stand push outward.
- Pull the stand out as shown above in Figures 2 ~ 3. After unfolding the stand, please insert and tighten the screws in the holes (B) on the bottom of the stand.
- When connecting cables to the set, Do not disengage the lock (C). This may cause the set to fall, causing serious bodily injury and serious damage to the set.

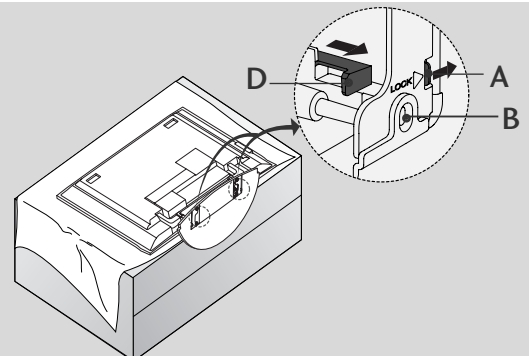
#### ! NOTE

Figures shown here may be slightly different from your set.

#### When closing the stand for storage

First remove the screws in the holes (B) on the bottom of the stand. And then pull two Hooks (D) of the stand bottom and fold the stand into the back of the set.

After folding, push two Locks (A) of the stand bottom outward.



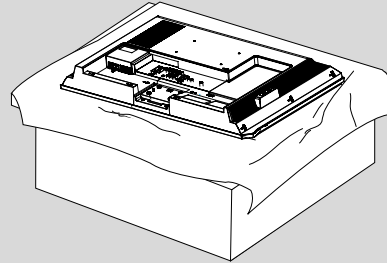


# INSTALLATION

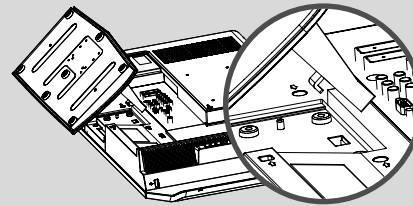
## STAND INSTALLATION

### Stand Installation for 32LC2R

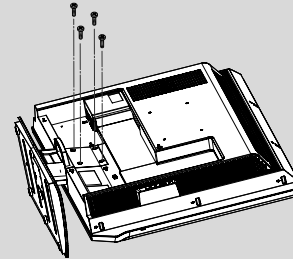
- 1 Carefully place the product screen side down on a cushioned surface that will protect product and screen from damage.



- 2 Place the product stand on the product as shown.



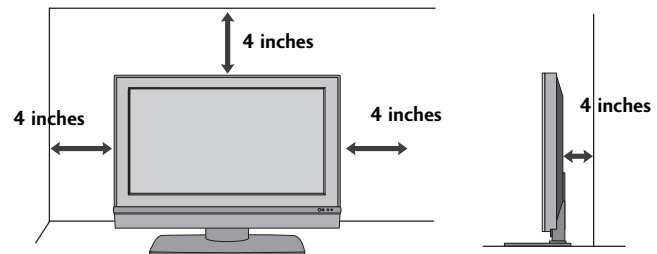
- 3 Install the 4 bolts securely, in the back of the product in the holes provided.



## DESKTOP PEDESTAL INSTALLATION

For proper ventilation, allow a clearance of 4 inches on each side from the wall.

26/32LC2R/32LC3R



### ⚠ CAUTION

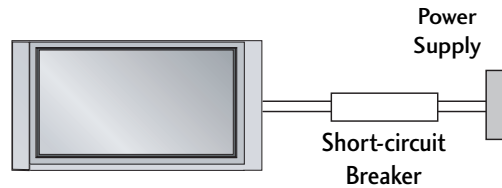
- ▶ Ensure adequate ventilation by following the clearance recommendations.

# INSTALLATION

- The TV can be installed in various ways such as on a wall, or on a desktop etc.
- The TV is designed to be mounted horizontally.

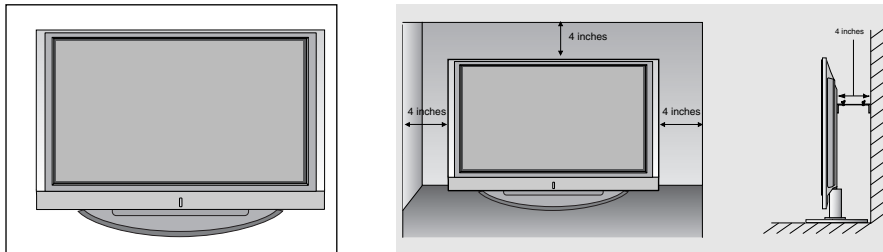
## GROUNDING

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, lightning rods, or gas pipes.



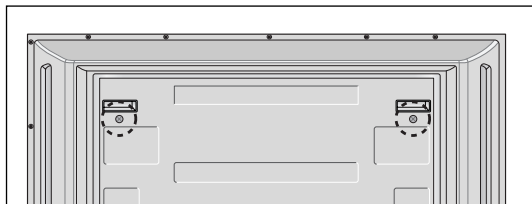
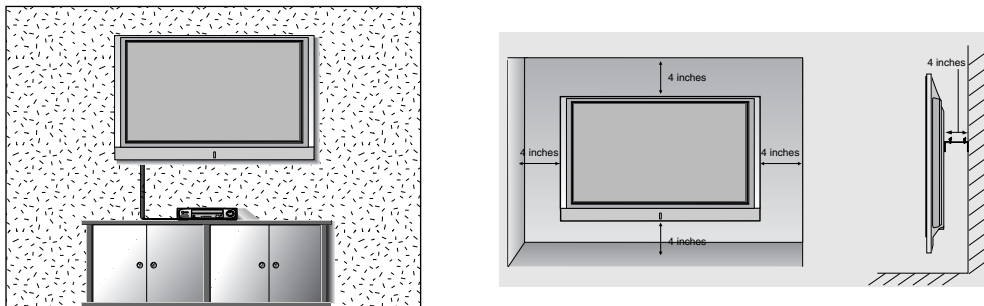
### Desktop Pedestal Installation

For proper ventilation, allow a clearance of 4" on each side and from the wall.



### Wall Mount: Horizontal installation

For proper ventilation, allow a clearance of 4" on each side and from the wall. Detailed installation instructions are available from your dealer, see the optional Tilt Wall Mounting Bracket Installation and Setup Guide.



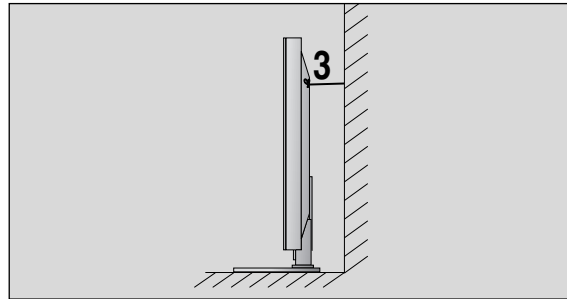
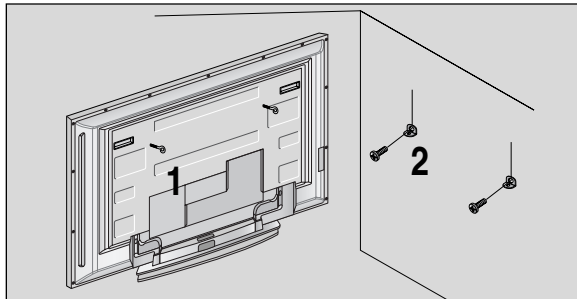
**<Only 42PC1R\*>**

Remove two screws of the backside of the set before installing the wall mounting bracket.

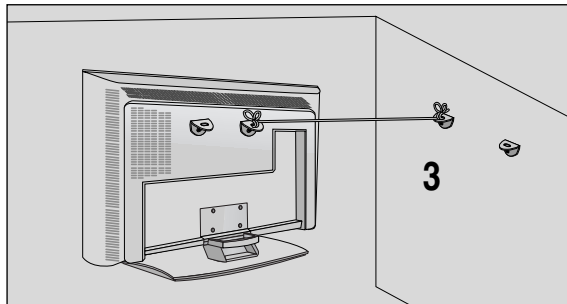
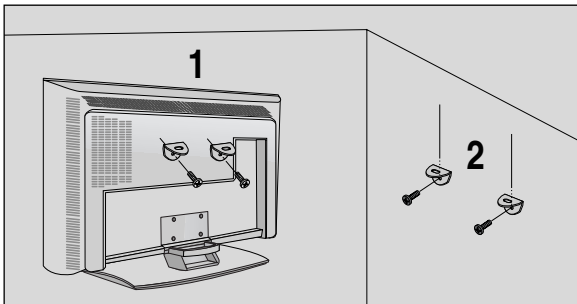
## HOW TO JOIN THE PRODUCT ASSEMBLY TO THE WALL TO PROTECT THE SET TUMBLING

- Set it up close to the wall so the product doesn't fall over when it is pushed backwards.
- The instructions shown below is a safer way to set up the product, which is to fix it on the wall so the product doesn't fall over when it is pulled in the forward direction. It will prevent the product from falling for-ward and hurting people. It will also prevent the product from damage caused by fall. Please make sure that children don't climb on or hang from the product.

### 42PC1R\*/42PC7R\*



### 26/32LC2R/32LC3R



- ① Use the bracket and the bolt to fix the product to the wall as shown in the picture.
- ② Secure the bracket with the bolt (not provided as parts of the product, must purchase separately) on the wall.
- ③ 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

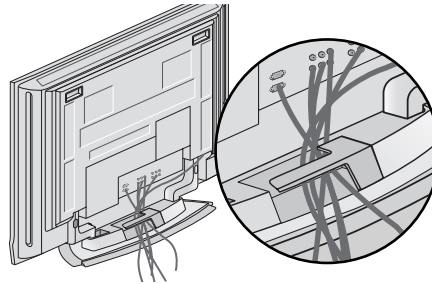
- ▶ When moving the product to another place undo the ropes first.
- ▶ Use a product holder or a cabinet that is big and strong enough for the size and weight of the product.
- ▶ To use the product safely make sure that the height of the bracket that is mounted on the wall is same as that of the product.

# INSTALLATION

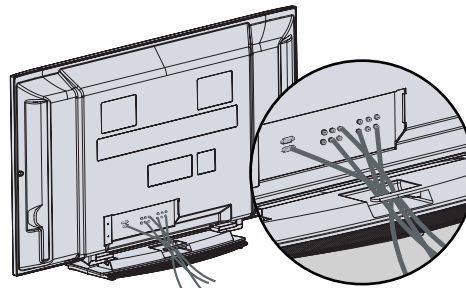
## BASIC CONNECTION

Arrange the cables as shown picture.

42PC1R\*



42PC7R\*

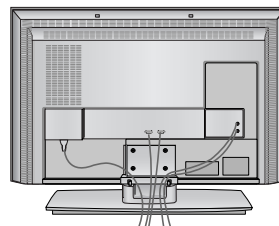


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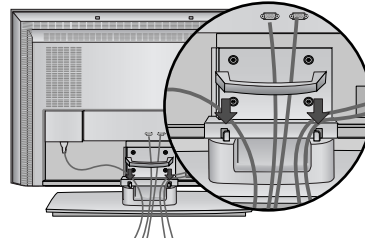
## BASIC CONNECTION (Only 26LC2R/32LC2R/32LC3R)

- 1 Connect the cables as necessary. After connecting the cables neatly, arrange the cables to the Cable Holder.

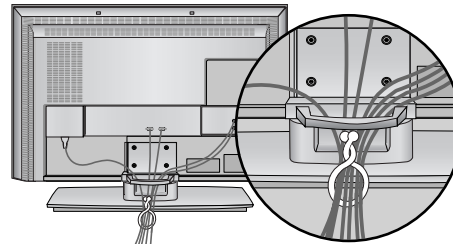
To connect an additional equipment, see the **Connection & Setup** section.



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



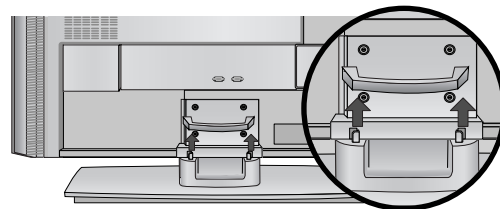
- 3** Bundle the cables using the supplied twister holder.



## HOW TO REMOVE THE CABLE MANAGEMENT

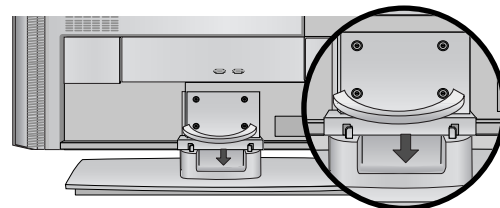
- For **26/32LC2R**

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



- For **32LC3R**

Hold the **CABLE MANAGEMENT** with both hands and pull it downward.



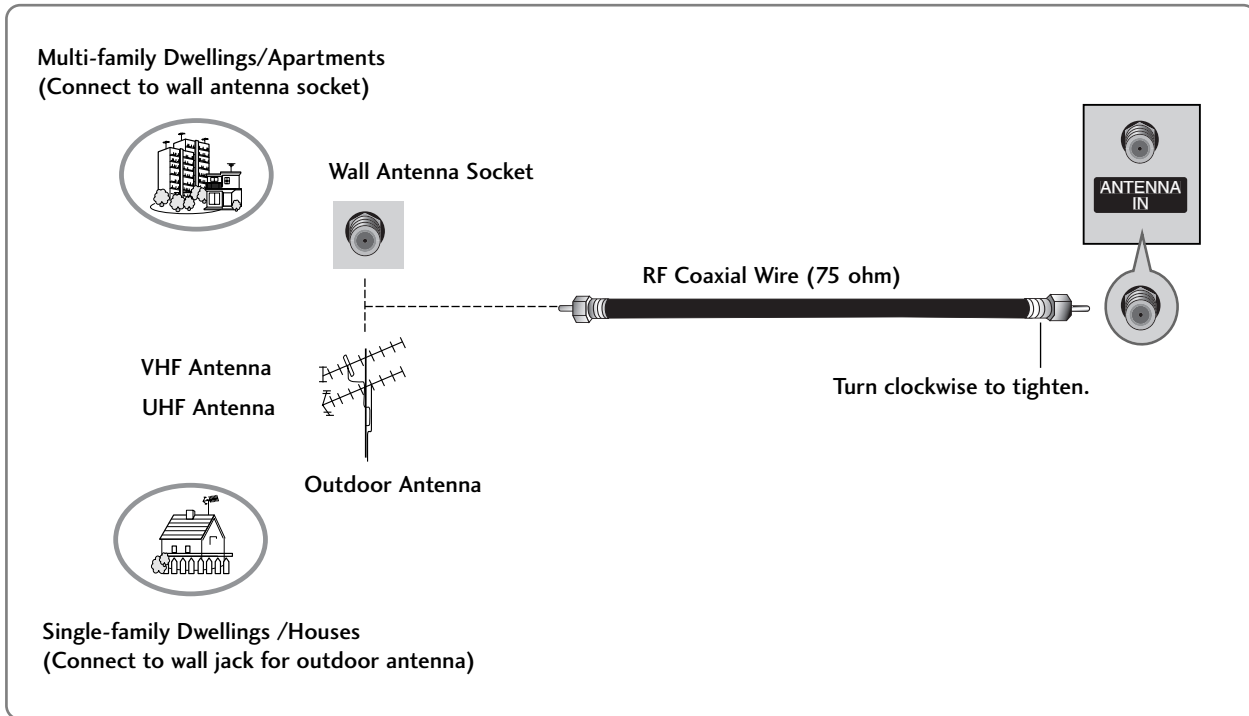
### ! NOTE

- 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.

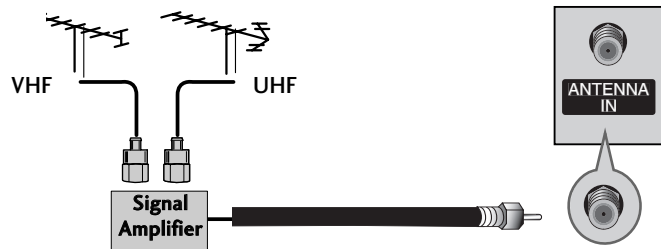
# CONNECTIONS & SETUP

## ANTENNA CONNECTION

- For optimum picture quality, adjust antenna direction.
- An antenna cable and converter are not supplied.



- In poor signal areas, to get better picture quality, install a signal amplifier to the antenna as shown to the right.
- If signal needs to be split for two TVs, use an antenna signal splitter for connection.

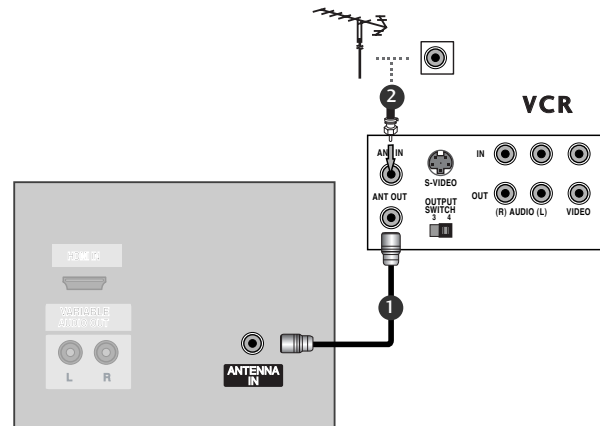


## VCR SETUP

- To avoid picture noise (interference), leave an adequate distance between the VCR and TV.
- Typically a frozen still picture from a VCR. If the 4:3 picture format is used; the fixed images on the sides of the screen may remain visible on the screen.

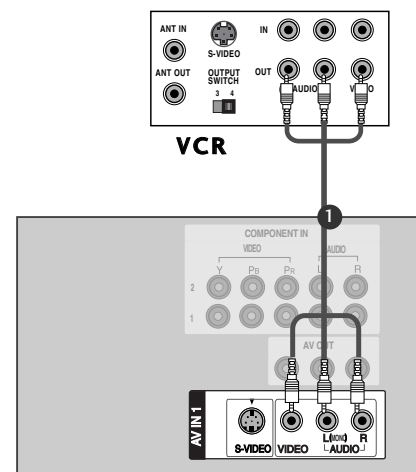
### When connecting with an antenna

- 1 Connect the **ANT OUT** socket of the VCR to the **ANTENNA IN** socket on the set.
- 2 Connect the antenna cable to the RF antenna socket of the VCR.
- 3 Press the **PLAY** button on the VCR and match the appropriate channel between the TV and VCR for viewing.



### When connecting with a RCA cable

- 1 Connect the **AUDIO/VIDEO** jacks between TV and VCR. Match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red).
- 2 Insert a video tape into the VCR and press **PLAY** on the VCR. (Refer to the VCR owner's manual.)
- 3 Select **AV1** input source using the **INPUT** button on the remote control.  
- If connected to **AV IN 2**, select **AV2** input source.



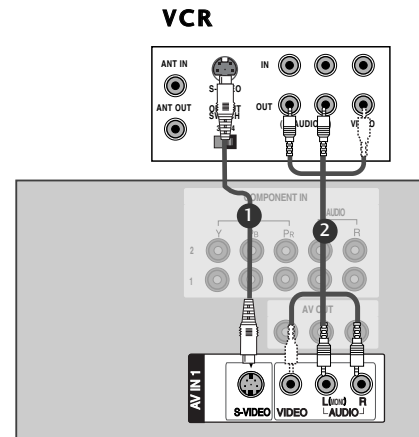
#### ! NOTE

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

## VCR SETUP

### When connecting with an S-Video cable

- 1 Connect the S-VIDEO output of the VCR to the **S-VIDEO** input on the set. The picture quality is improved; compared to normal composite (RCA cable) input.
- 2 Connect the audio outputs of the VCR to the **AUDIO** input jacks on the set.
- 3 Insert a video tape into the VCR and press **PLAY** on the VCR. (Refer to the VCR owner's manual.)
- 4 Select **AV1** input source with using the **INPUT** button on the remote control.

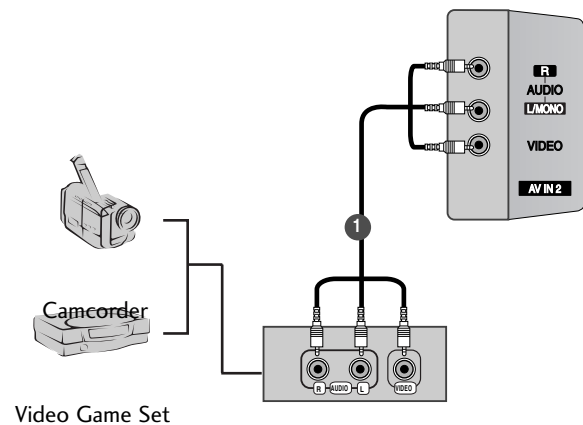


#### ! NOTE

- ▶ If both S-VIDEO and VIDEO sockets have been connected to the S-VHS VCR simultaneously, only the S-VIDEO can be received.

## EXTERNAL EQUIPMENT CONNECTIONS

- 1 Connect the **AUDIO/VIDEO** jacks between TV and external equipment. Match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red).
- 2 Select **AV2** input source with using the **INPUT** button on the remote control.  
- If connected to **AV IN1** input, select **AV1** input source.
- 3 Operate the corresponding external equipment. Refer to external equipment operating guide.

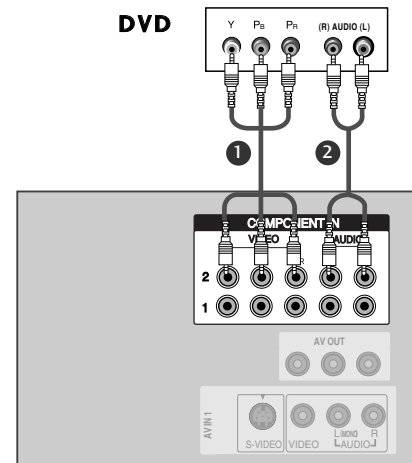




# DVD SETUP

## When connecting with a component cable

- 1 Connect the video outputs (Y, Pb, Pr) of the DVD to the **COMPONENT IN VIDEO** jacks on the set.
- 2 Connect the audio outputs of the DVD to the **COMPONENT IN AUDIO** jacks on the set.
- 3 Turn on the DVD player, insert a DVD.
- 4 Select **Component2** input source using the **INPUT** button on the remote control.  
- If connected to **Component 1**, select **Component1** input source.
- 5 Refer to the DVD player's manual for operating instructions.



### ! NOTE

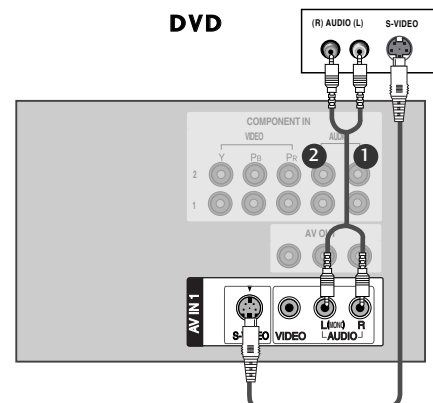
#### ► Component Input ports

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

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

## When connecting with a S-Video cable

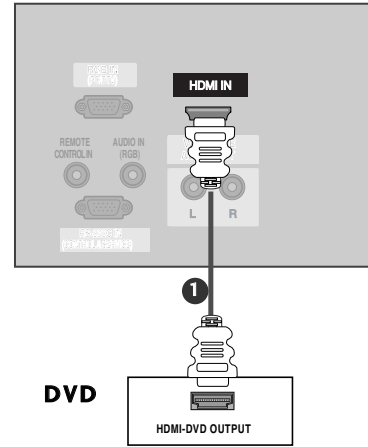
- 1 Connect the S-VIDEO output of the DVD to the **S-VIDEO** input on the set.
- 2 Connect the audio outputs of the DVD to the **AUDIO** input jacks on the set.
- 3 Turn on the DVD player, insert a DVD.
- 4 Select **AV1** input source with using the **INPUT** button on the remote control.
- 5 Refer to the DVD player's manual for operating instructions.



# CONNECTIONS & SETUP

## When connecting with a HDMI cable

- 1 Connect the HDMI output of the DVD to the **HDMI IN** jack on the set.
- 2 Select **HDMI** input source with using the **INPUT** button on the remote control.
- 3 Refer to the DVD player's manual for operating instructions.



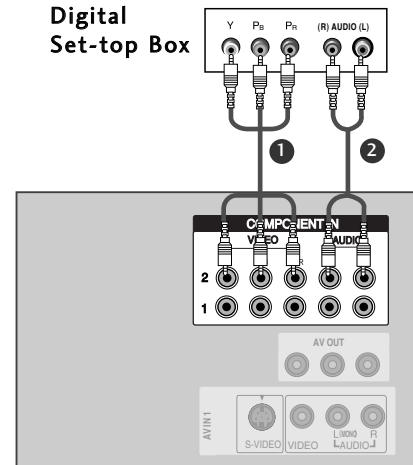
### ! NOTE

- ▶ TV can receive the video and audio signal simultaneously with using a HDMI cable.
- ▶ If the DVD supports Auto HDMI function, the DVD output resolution will be automatically set to 1280x720p.
- ▶ If the DVD does not support Auto HDMI, you need to set the output resolution appropriately. To get the best picture quality, adjust the output resolution of the DVD to 1280x720p.

# STB (SET-TOP BOX) SETUP

## When connecting with a component cable

- 1 Connect the video outputs (Y, PB, PR) of the digital set-top box to the **COMPONENT IN VIDEO** jacks on the set.
- 2 Connect the audio output of the digital set-top box to the **COMPONENT IN AUDIO** jacks on the set.
- 3 Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
- 4 Select **Component2** input source using the **INPUT** button on the remote control.  
- If connected to **Component 1**, select **Component1** input source.

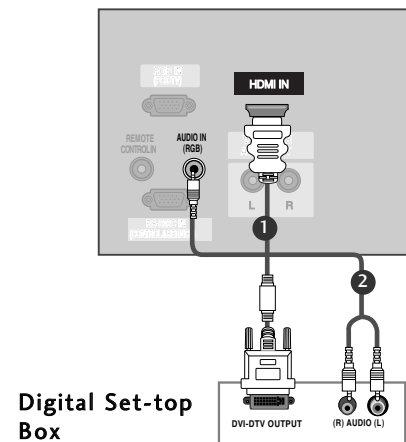


### ! NOTE

Signal	Component	RGB-DTV	HDMI
480i	Yes	No	No
480p/720p/1080i	Yes	Yes	Yes

## When connecting with a HDMI to DVI cable

- 1 Connect the DVI output of the digital set-top box to the **HDMI IN** jack on the set.
- 2 Connect the audio outputs of the set-top box to the **AUDIO IN (RGB/DVI)** jack on the set.
- 3 Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
- 4 Select **HDMI** input source with using the **INPUT** button on the remote control.



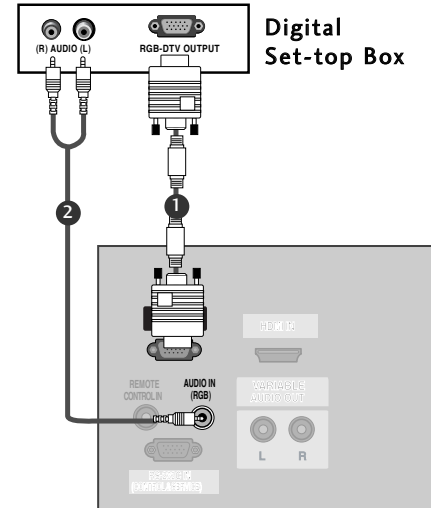
### ! NOTE

- ▶ If the digital set-top box has a DVI output and no HDMI output, a separated audio connection is necessary.
- ▶ If the digital set-top box supports Auto DVI function, the output resolution of the digital set-top box will be automatically set to 1280x720p.
- ▶ If the digital set-top box does not support Auto DVI, you need to set the output resolution appropriately. To get the best picture quality, adjust the output resolution of the digital set-top box to 1280x720p.

# CONNECTIONS & SETUP

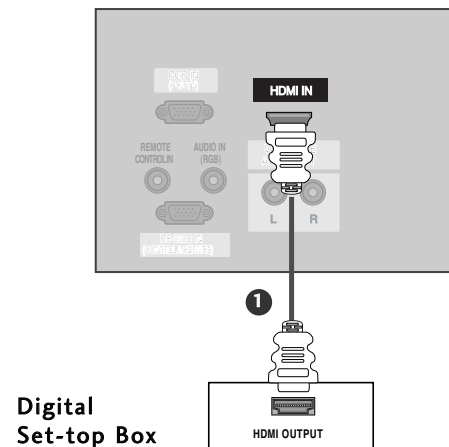
## When connecting with a D-sub 15 pin cable

- 1 Connect the RGB output of the digital set-top box to the **RGB IN (PC/DTV)** jack on the set.
- 2 Connect the audio outputs of the set-top box to the **AUDIO IN (RGB/DVI)** jack on the set.
- 3 Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
- 4 Select **RGB-DTV** input source with using the **INPUT** button on the remote control.



## When connecting with a HDMI cable

- 1 Connect the HDMI output of the digital set-top box to the **HDMI IN** jack on the set.
- 2 Select **HDMI** input source with using the **INPUT** button on the remote control.
- 3 Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)



### ! NOTE

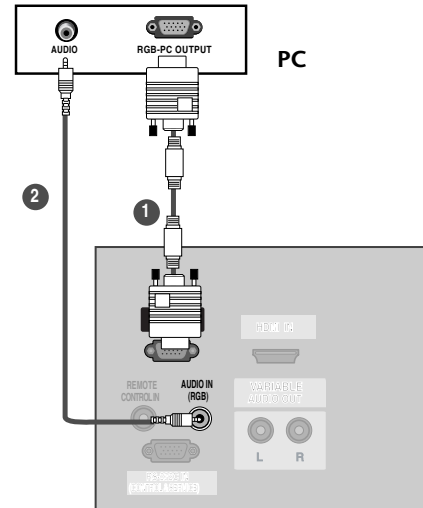
- ▶ TV can receive the video and audio signal simultaneously with using a HDMI cable.
- ▶ If the digital set-top box supports Auto HDMI function, output resolution of the digital set-top box will be automatically set to 1280x720p.
- ▶ If the digital set-top box does not support Auto HDMI, you need to set the output resolution appropriately. To get the best picture quality, adjust the output resolution of the digital set-top box to 1280x720p.

## PC SETUP

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

### When connecting with a D-sub 15 pin cable

- 1 Connect the RGB output of the PC to the **RGB IN (PC/DTV)** jack on the set.
- 2 Connect the audio outputs of the PC to the **AUDIO IN (RGB/DVI)** jack on the set.
- 3 Turn on the PC and the set.
- 4 Select **RGB-PC** input source with using the **INPUT** button on the remote control.



#### ! NOTE

- 1 To enjoy vivid picture and sound, connect a PC to the set.
- 2 Avoid keeping a fixed image on the set's screen for a long period of time. The fixed image may become permanently imprinted on the screen; use a screen saver when possible.
- 3 Connect PC to the RGB INPUT(PC INPUT) port of the set; change the resolution output of PC accordingly.
- 4 There might be a noise according to some resolution, vertical pattern, contrast or brightness in PC mode. Then change the PC mode into other resolution or change the refresh rate into other rate or adjust the brightness and contrast on the menu until the picture is clean. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult it to the manufacturer of the PC graphic card.
- 5 The synchronization input form for Horizontal and Vertical frequencies is separate.
- 6 We recommend using 640x480, 60Hz (42PC1RV/42PC1RVH)/1360x768, 60Hz (26/32LC2R/32LC3R/42PC1R/42PC7R/42PC7RH) for the PC mode, they provide the best picture quality.
- 7 If the resolution of PC is over UXGA, there will be no picture on the set.
- 8 Connect the audio cable from the PC to the Audio input on the set. (Audio cables are not included with the set).
- 9 When you use too long RGB-PC cable, there might be a noise on the screen. We recommend using under 5m of the cable. It provides the best picture quality.
- 10 This set does not support HDMI-PC.
- 11 RGB-PC 640\*350 mode is only for DOS, it is possible that dose not full the whole screen.

# CONNECTIONS & SETUP

Supported Display Resolution (RGB[PC] mode)  
(26/32LC2R/32LC3R/42PC1R/42PC7R/42PC7RH)

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
640x350	31.5	70.1
720x400	31.5	70.1
640x480	31.5	59.9
800x600	37.9	60.3
1024x768	48.4	60.0
1280x768	47.8	59.9
1360x768	47.7	59.8
1366x768	47.7	59.8

Supported Display Resolution (RGB[PC] mode)  
(42PC1RV, 42PC1RVH)

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
640x350	31.5	70.1
720x400	31.5	70.1
640x480	31.5	59.9
848x480	31.5	60.0
852x480	31.5	60.0
800x600	37.9	60.3
1024x768	48.4	60.0

# TURNING THE TV ON

If your TV will be turned on, you will be able to use its features.

## 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  $\phi/|$  , **INPUT**, **CH ▲ / ▼** button on the TV or press the **POWER**, **TV**, **INPUT**, **CH +/-**, **Number(0~9)** button on the remote control and then the TV will switch on.

## Volume Adjustment

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

## Channel Adjustment

- 1 Press the **CH +/-** or **NUMBER** button to select a channel number.



### NOTE

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

# TV MENU

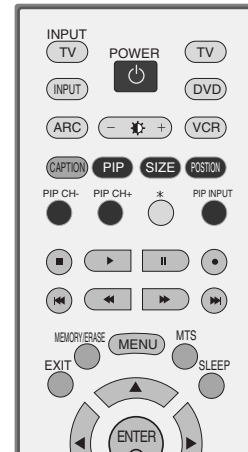
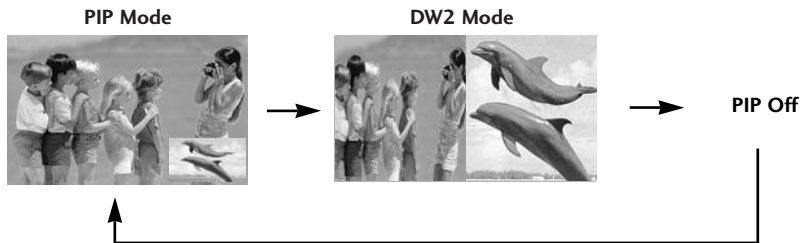
## PIP (PICTURE-IN-PICTURE)

PIP lets you view 2 different inputs (sources) on your TV screen at the same time. One source will be large, and the other source will show a smaller inset image.

PIP function is available in the Component, RGB, HDMI mode. (But, it can't adjust 480i resolution of Component/HDMI mode.) for the main picture.

### Watching PIP

Press the **PIP** button to access the sub picture. Each press of PIP changes the PIP options as shown below.



### Channel Selection for Sub Picture

Press the **PIP CH +/-** button to select a channel for the sub picture. The selected channel number is displayed just below the channel number of main picture.

### Input Source Selection for Sub Picture

Press the **PIP INPUT** button to select the input source for the sub picture. Each press of **PIP INPUT** button is pressed, each input source for the sub picture is displayed. Sub picture can be selected only TV, AV1, AV2 modes.

### Sub Picture Size Adjustment (PIP mode only)

Press the **SIZE** button to adjust the sub picture size. With **SIZE** button in PIP mode, sub picture is adjusted.

### Moving the Sub Picture (PIP mode only)

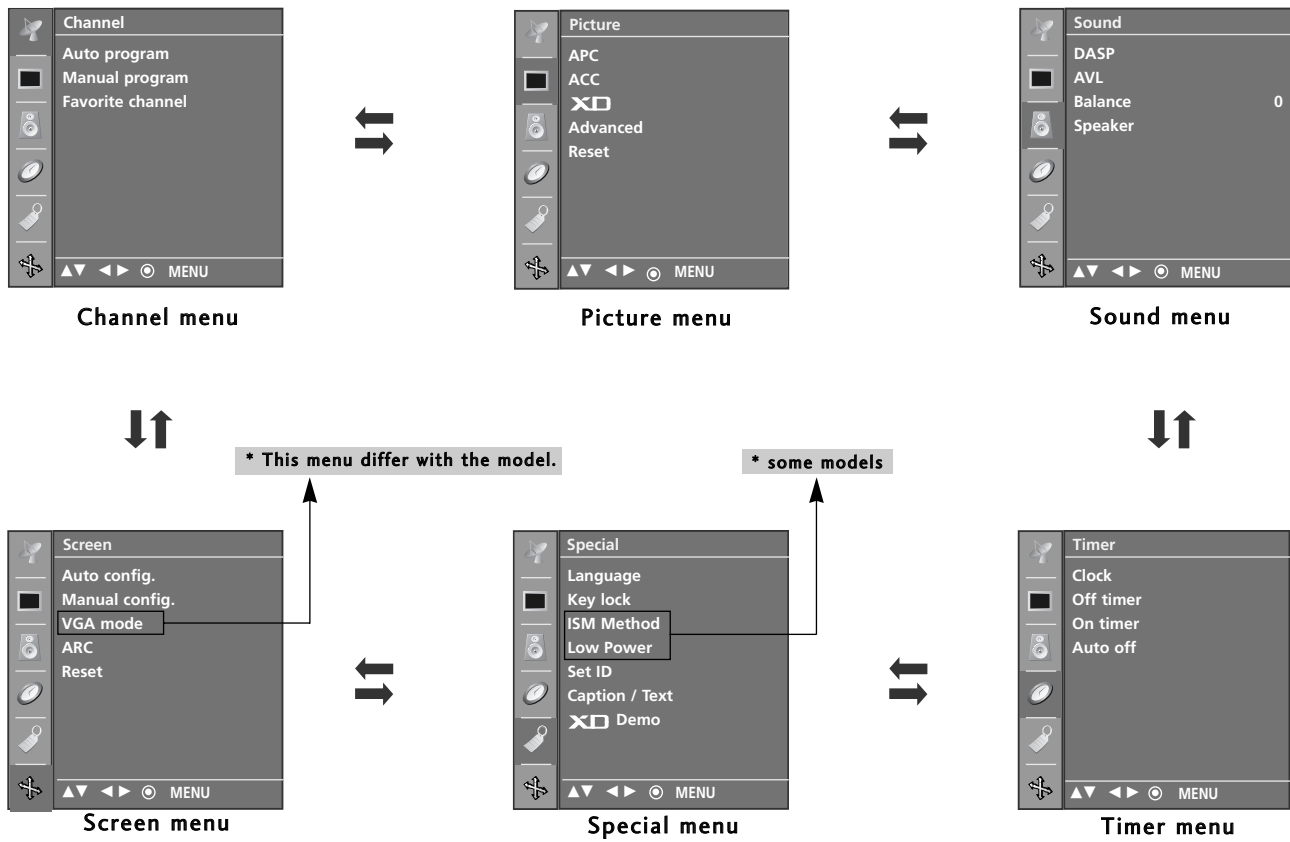
Press the **POSITION** button. Repeatedly press the **POSITION** button then sub picture moves up/down/left/right.



# ON SCREEN MENUS SELECTION AND ADJUSTMENT

Your TV's OSD (On Screen Display) may differ slightly from what is shown in this manual.  
The OSD mainly use pictures for the 42PC1RV.

- 1 Press the **MENU** button and then **▲ / ▼** button to display each menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select a menu item.
- 3 Change the setting of an item in the sub or pull-down menu with **◀ / ▶** button.  
You can move to the higher level menu by pressing the **ENTER** or **MENU** button.



TV MENU

# TV MENU Channel Menu Options

## AUTO PROGRAM: CHANNEL SEARCH

Auto Program should be used to memorize all the active channels in your area before you are able to use the TV.

There are two ways of storing channels in the TV's memory. You can use either:

One is called AUTO PROGRAM and the other is called MANUAL PROGRAM.

In AUTO PROGRAM mode, the TV will memorize the channels in ascending numerical order. If there are additional channels you want to add or delete, you can manually add or delete those channels with Manual Program.

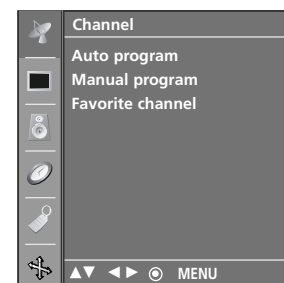
- Redo Auto Program if the TV is ever moved to another location.
- Auto Program will search for channels only through the Antenna jack.
- If channels numbers for broadcast over-the air TV and cable TV are duplicated where different channels have the same number, press the same number buttons again to toggle between:



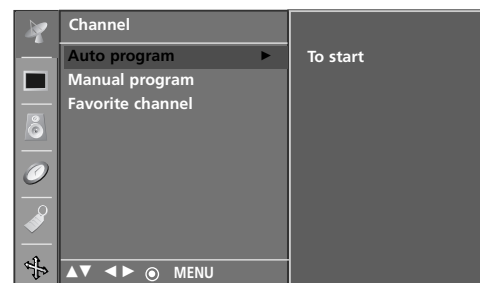
(For example, press 17 to go to the channel, press 17 again to go to the duplicated channel.)



- 1 Press the **MENU** button and then **▲ / ▼** button to select the **Channel** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **Auto program**.
- 3 Press the **▶** button. **AUTO PROGRAM** starts the channel search.
- 4 If you want to stop auto programming, press the **MENU** button.  
Only the channels found up to at that time are memorized.



1



2 3

## MANUAL PROGRAM: ADDING/DELETING CHANNELS

You can add or delete channels from the channel scan manually.

- 1 Use the CH-/+ or NUMBER buttons to select the channel number you want to add or delete.
- 2 Press the MEMORY/ERASE button.

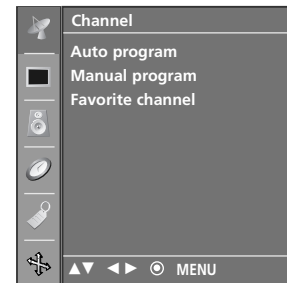
• You can also do **Manual program** with the **Channel** menu.



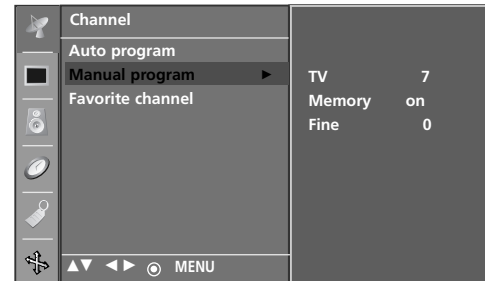
# FINE TUNING

Normally fine tuning is only necessary if reception is poor.

- 1 Press the **MENU** button and then ▲ / ▼ button to select the **Channel** menu.
- 2 Press the ► button and then ▲ / ▼ button to select **Manual program**.
- 3 Press the ► button and then ▲ / ▼ button to select **Fine**.
- 4 Press the ◀ / ▶ button to to fine tune for the best picture and sound.
- 5 Press the **ENTER** button to store it.
- 6 Press the **EXIT** button to return to normal TV viewing.



1



2



3 4

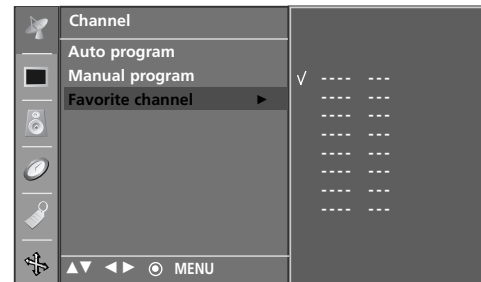
# FAVORITE CHANNELS SETUP

This function lets you select your favorite Channels directly.  
Repeatedly press the FCR button to select stored favorite Channels.

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **Channel** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **Favorite Channel**.
- 3 Press the **▶** button.
- 4 Press the **▲ / ▼** button to select - - - - -.
- 5 Select a desired program with the **◀ / ▶** button.
- 6 To store another program, repeat steps **4** to **5**.  
You can store up to 8 programs.
- 7 Press the **EXIT** button to return to normal TV viewing.



1



2

# TV MENU      Picture Menu Options

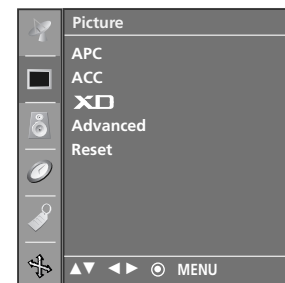
## AUTO PICTURE CONTROL (APC)

- Clear**            Select this option to display with a sharp image.  
**Optimum**        The most general and natural screen display status.  
**Soft**             Select this option to display with a mild image.  
**User 1/2**         Select this option to use the user-defined setting.



- 1 Press the **MENU** button and then **▲ / ▼** button to select the **Picture** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **APC**.
- 3 Press the **▶** button and then **▲ / ▼** button to select **Clear, Optimum, Soft, User 1, or User 2**.
- 4 Press the **EXIT** button to return to TV viewing or press the **MENU** button to return to the previous menu.

- *APC adjusts the TV for the best picture appearance. Select the preset value in the APC menu based on the program category.*
- *Clear, Optimum and Soft, are programmed for optimum picture reproduction at the factory and cannot be changed.*



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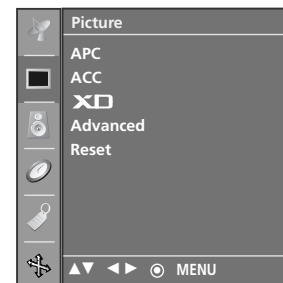
2 3

# PICTURE ADJUSTMENT (APC-USER OPTION)

- Contrast** Adjusts the difference between the light and dark levels in the picture.
- Brightness** Increases or decreases amount of white in the your picture.
- Color** Adjusts intensity of all colors.
- Sharpness** Adjusts the level of crispness in the edges between the light and dark areas of the picture. The lower the level, the softer the image.
- Tint** Adjusts the balance between red and green levels.



- 1 Press the **MENU** button and then **▲ / ▼** button to select the **Picture** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **APC**.
- 3 Press the **▶** button and then **▲ / ▼** button to select **User 1**, or **User 2**.
- 4 Press the **▶** button and then **▲ / ▼** button to select the desired picture option (**Contrast, Brightness, Color, Sharpness, and Tint**).
- 5 Press the **▶** button and then press the **◀ / ▶** button to make appropriate adjustments.
- 6 Press the **EXIT** button to return to TV viewing or press the **MENU** button to return to the previous menu.

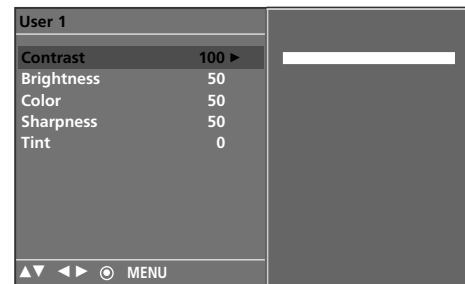


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**! NOTE**  
 - You can't adjust color, sharpness and tint in the RGB-PC mode to the levels you prefer.



4 5

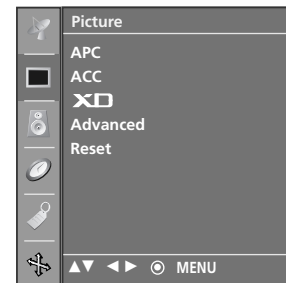


## AUTO COLOR TEMPERATURE CONTROL (ACC)

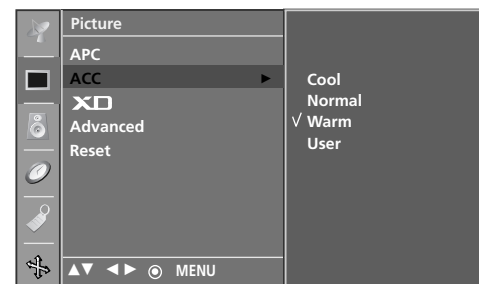
To initialize values (reset to default settings), select the Cool option.

Choose one of three automatic color adjustments. Set to warm to enhance hotter colors such as red, or set to cool to see less intense colors with more blue.

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **Picture** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **ACC**.
- 3 Press the **▶** button and then **▲ / ▼** button to select either **Cool**, **Normal**, **Warm**, or **User**.
- 4 Press the **EXIT** button to return to TV viewing or press the **MENU** button to return to the previous menu.



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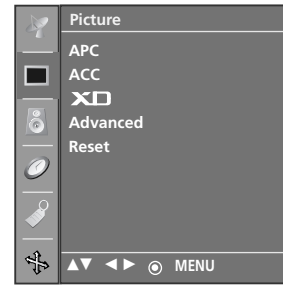
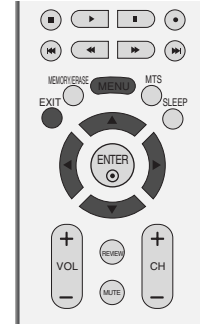
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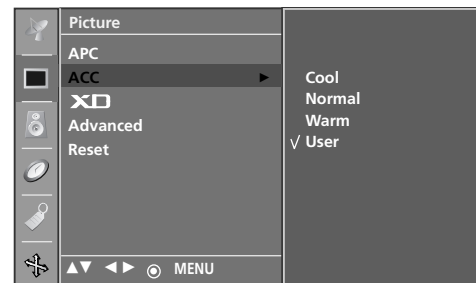
# MANUAL COLOR TEMPERATURE CONTROL (ACC - USER OPTION)

You can adjust red, green, blue to any color temperature you prefer.

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **Picture** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **ACC**.
- 3 Press the **▶** button and then **▲ / ▼** button to select **User**.
- 4 Press the **▶** button and then **▲ / ▼** button to select **Red, Green, or Blue**.
- 5 Press the **▶** button and then press the **◀ / ▶** button to make appropriate adjustments.
- 6 Press the **EXIT** button to return to TV viewing or press the **MENU** button to return to the previous menu.



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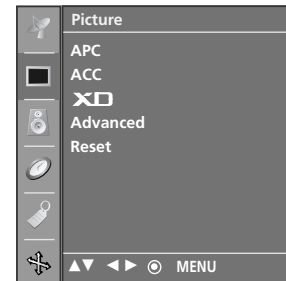
TV MENU

# XD FUNCTION

XD is LG electronic's unique picture improving technology to display a real HD source through an advanced digital signal processing algorithm.

It's not available to use this function in RGB-PC mode.

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **Picture** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **XD**.
- 3 Press the **▶** button and then **▲ / ▼** button to select **Auto** or **Manual**.
- 4 Press the **EXIT** button to return to TV viewing or press the **MENU** button to return to the previous menu.

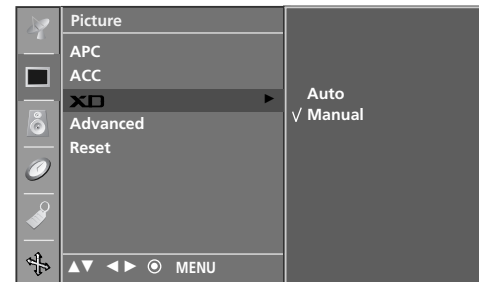


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### \* Selecting the Manual

- This menu is activated after selecting the **User1** or **User2** of APC.

- 1 Press the **▶** button and then **▲ / ▼** button to select **XD Contrast**, **XD Color** or **XD NR**.
- 2 Press the **▶** button and then **▲ / ▼** button to select **On** or **Off**.
- 3 Press the **EXIT** button to return to TV viewing or press the **MENU** button to return to the previous menu.



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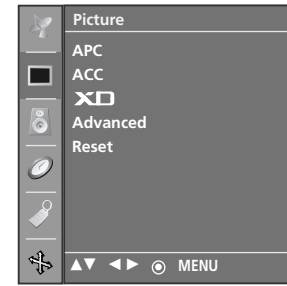
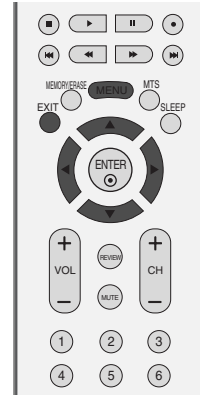
- **XD Contrast** : Optimizing the contrast automatically according to the brightness of the reflection.
- **XD Color** : Adjusting the colors of the reflection automatically to reproduce as closely as possible to the natural colors.
- **XD NR** : Removing the noise up to the point where it does not damage the original picture.

# ADVANCED-CINEMA

Set up the TV for the best picture appearance for viewing movies.

This feature operates only in Analog TV, Video and Component 480i mode.

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **Picture** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **Advanced**.
- 3 Press the **▶** button and then **▲ / ▼** button to select **Cinema**.
- 4 Press the **▶** button and then **▲ / ▼** button to select **On** or **Off**.
- 5 Press the **EXIT** button to return to TV viewing or press the **MENU** button to return to the previous menu.



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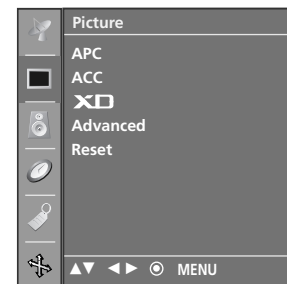
4

TV MENU

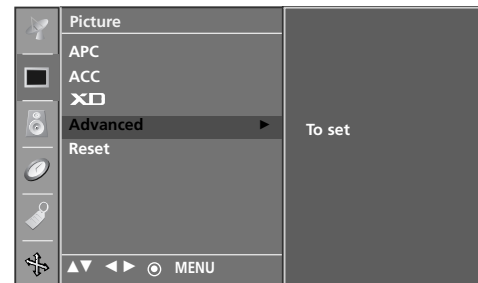
## ADVANCED-BLACK LEVEL

When you watch the movie, this function adjusts the set to the best picture appearance. Adjusting the contrast and the brightness of the screen using the black level of the screen. This function works in the following mode: Video (NTSC-M), S-Video or HDMI.

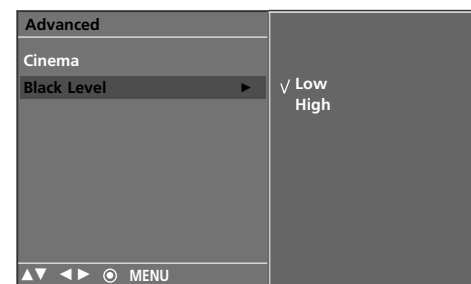
- 1 Press the **MENU** button and then ▲ / ▼ button to select the **Picture** menu.
- 2 Press the ► button and then ▲ / ▼ button to select **Advanced**.
- 3 Press the ► button and then ▲ / ▼ button to select **Black Level**.
- 4 Press the ► button and then ▲ / ▼ button to select **Low** or **High**.
  - **Low** : The reflection of the screen gets darker.
  - **High** : The reflection of the screen gets brighter.
- 5 Press the **EXIT** button to return to TV viewing or press the **MENU** button to return to the previous menu.



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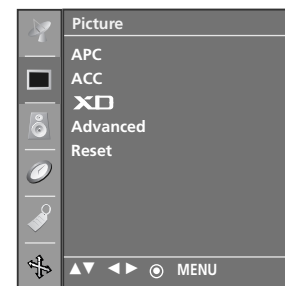
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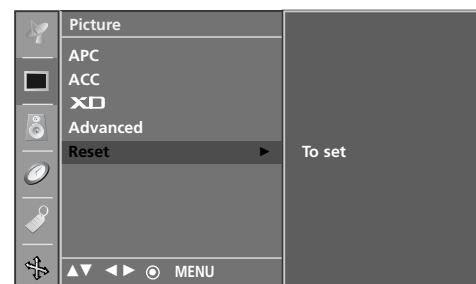
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# RESET

- 1 Press the **MENU** button and then ▲ / ▼ button to select the **Picture** menu.
- 2 Press the ► button and then ▲ / ▼ button to select **Reset**.
- 3 Press the ► button to initialize the adjusted value.
  - Returns to the default settings APC, ACC, XD, Advanced at the factory.



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# TV MENU      Sound Menu Options

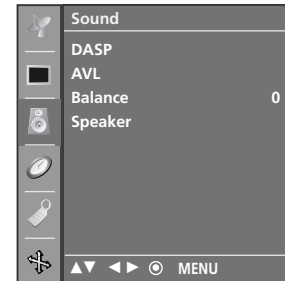
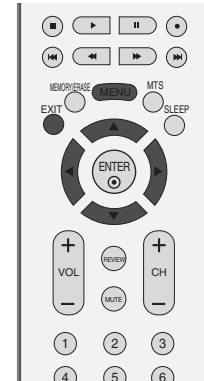
## DIGITAL AUTO SOUND PROCESSING (DASP)

You can select your preferred sound setting; Surround MAX, Flat, Music, Movie or Sports and you can also adjust the sound frequency of the equalizer.

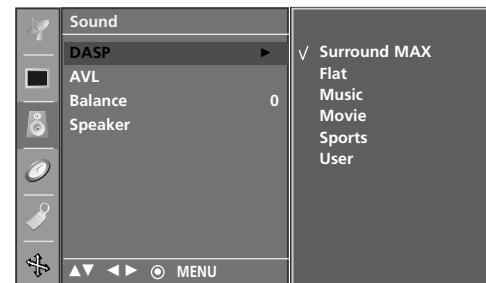
DASP lets you enjoy the best sound without any special adjustment because the TV sets the appropriate sound options based on the program content.

Surround MAX, Flat, Music, Movie, and Sports are preset for good sound quality at the factory and are not adjustable.

- Surround MAX**    Select this option to sound realistic.
- Flat**            The most commanding and natural audio.
- Music**          Select this option to enjoy the original sound when listening to the music.
- Movie**          Select this option to enjoy sublime sound.
- Sports**        Select this option to watch sports broadcasting.
- User**            Select this option to use the user-defined audio settings.



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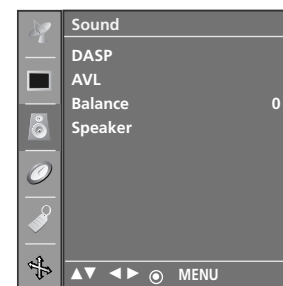
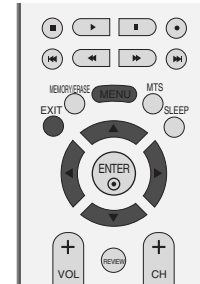
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- 1 Press the **MENU** button and then **▲ / ▼** button to select the **Sound** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **DASP**.
- 3 Press the **▶** button and then **▲ / ▼** button to select **Surround MAX, Flat, Music, Movie, Sports** or **User**.
- 4 Press the **EXIT** button to return to TV viewing or press the **MENU** button to return to the previous menu.

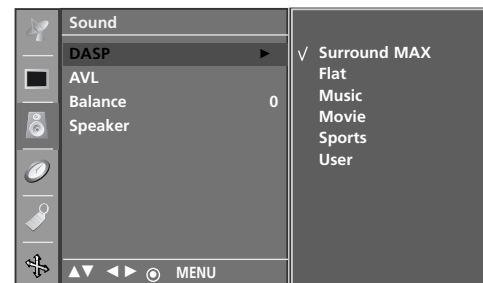
# SOUND FREQUENCY ADJUSTMENT (DASP - USER OPTION)

Adjust the sound equalizer.

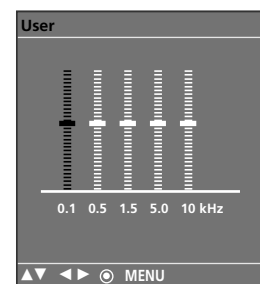
- 1 Press the **MENU** button and then **▲ / ▼** button to select the **Sound** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **DASP**.
- 3 Press the **▶** button and then **▲ / ▼** button to select **User**.
- 4 Press the **▶** button.
- 5 Select a sound band by pressing the **◀ / ▶** button.  
Make appropriate sound level with the **▲ / ▼** button.
- 6 Press the **EXIT** button to return to TV viewing or press the **MENU** button to return to the previous menu.



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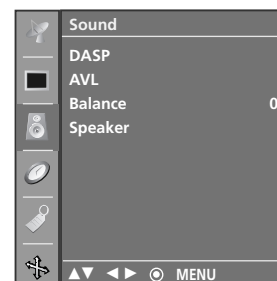


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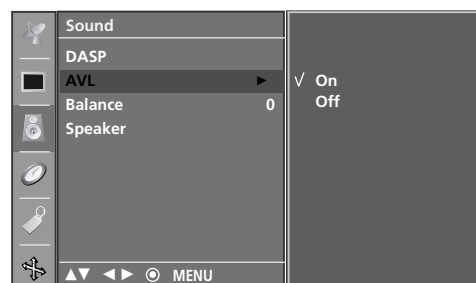
## AUTO VOLUME LEVELER (AVL)

AVL automatically keeps on an equal volume level even if you change programs.

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **Sound** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **AVL**.
- 3 Press the **▶** button and then **▲ / ▼** button to select **On** or **Off**.
- 4 Press the **EXIT** button to return to TV viewing or press the **MENU** button to return to the previous menu.



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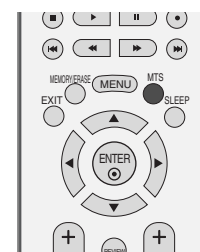


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## STEREO/SAP BROADCASTS SETUP

- The TV can receive MTS stereo programs and any SAP (Secondary Audio Program) that accompanies the stereo program; if the broadcaster transmits one additional sound signal in addition to the original one.
- Mono: The primary language is heard from left and right speakers.  
Signal mode is mono.
- Stereo: The primary language is heard from left and right speakers.  
Signal mode is stereo.
- SAP: The secondary language is heard from left and right speakers in mono sound.

- 1 Press the **MTS** button repeatedly. Each time you press **MTS** button, Mono, Stereo, or SAP appear in turn.
- 2 Press the **EXIT** button to return to TV viewing.



### ! NOTE

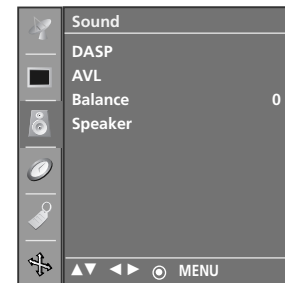
- ▶ Select mono sound mode if the signal is not clear or in poor signal reception areas.
- ▶ **Stereo, SAP** modes are available only if included on the broadcast signal.



# BALANCE ADJUSTMENT

You can adjust the sound balance of speaker to the levels you prefer.

- 1 Press the **MENU** button and then ▲ / ▼ button to select the **Sound** menu.
- 2 Press the ► button and then ▲ / ▼ button to select **Balance**.
- 3 Press the ► button and then ◀ / ▶ button to make desired adjustment.
- 4 Press the **EXIT** button to return to TV viewing or press the **MENU** button to return to the previous menu.



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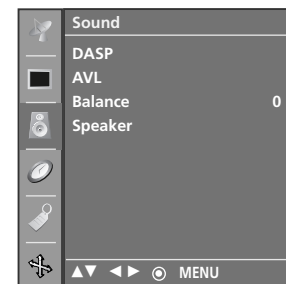
## SPEAKER

You can adjust the internal speaker status.

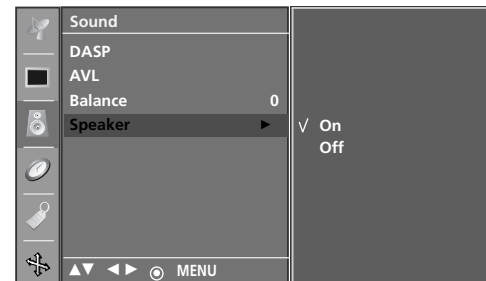
In Video, COMPONENT, RGB[PC], RGB[DTV] and HDMI mode, internal speaker audio or variable audio can be outputted even though there is no video signal.

If you want to use your external hi-fi stereo system, turn off the internal speakers of the set.

- 1 Press the **MENU** button and then ▲ / ▼ button to select the **Sound** menu.
- 2 Press the ► button and then ▲ / ▼ button to select **Speaker**.
- 3 Press the ► button and then ▲ / ▼ button to select **On** or **Off**.
- 4 Press the **EXIT** button to return to TV viewing or press the **MENU** button to return to the previous menu.



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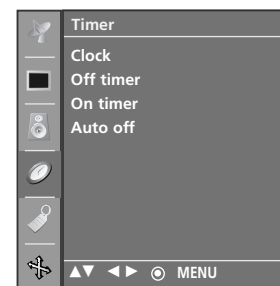
# TV MENU      Timer Menu Options

## CLOCK SETUP

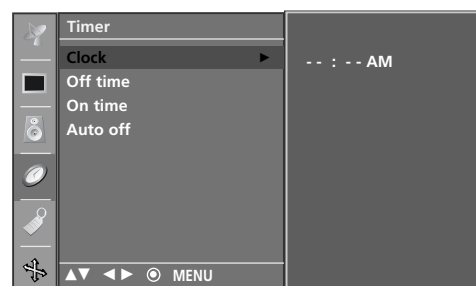
You must set the time correctly before using on/off time function.

If current time setting is erased by a power failure or the set is unplugged, reset the clock.

- 1 Press the **MENU** button and then ▲ / ▼ button to select the **Timer** menu.
- 2 Press the ► button and then ▲ / ▼ button to select **Clock**.
- 3 Press the ► button and then ▲ / ▼ button to set the hour.
- 4 Press the ► button and then ▲ / ▼ button to set the minutes.
- 5 Press the **EXIT** button to return to normal TV viewing.



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## ON/OFF TIMER

The Off timer automatically switches the set to standby at the preset time.

Two hours after the set is switched on by the on time function it will automatically switch back to standby mode unless a button has been pressed.

Once the on timer/off timer is set, these functions operate daily at the preset time.

Off time function overrides On timer function if they are set both to the same time.

The set must be in standby mode for the On timer to work.



**1** Press the **MENU** button and then **▲ / ▼** button to select the **Timer** menu.

**2** Press the **▶** button and then **▲ / ▼** button to select **Off timer/On timer**.

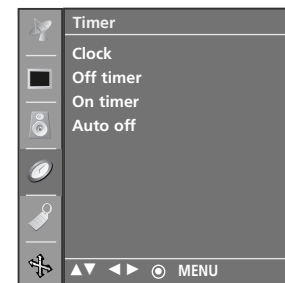
**3** Press the **▶** button and then **▲ / ▼** button to select **On**.  
 • To cancel **On/Off timer** function, select **Off**.

**4** Press the **▶** button and then **▲ / ▼** button to set the hour.

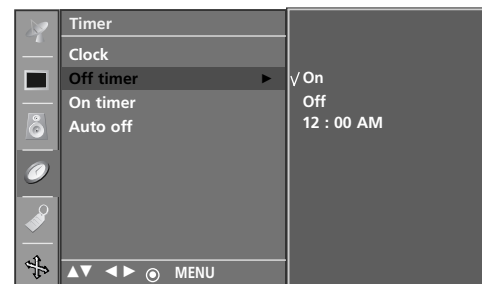
**5** Press the **▶** button and then **▲ / ▼** button to set the minutes.

**6** **For only On timer function**  
 • **Volume:** Press the **▶** button and then **▲ / ▼** button to adjust volume level at turn-on.  
 • **Channel:** Press the **▶** button and then **▲ / ▼** button to select the Channel.

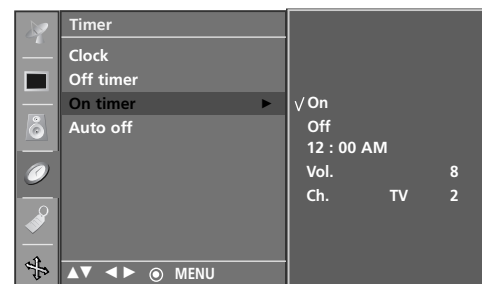
**7** Press the **EXIT** button to return to TV viewing or press the **MENU** button to return to the previous menu.



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**2 3 4 5**

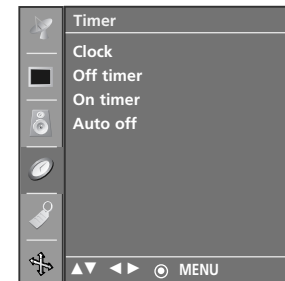


**6**

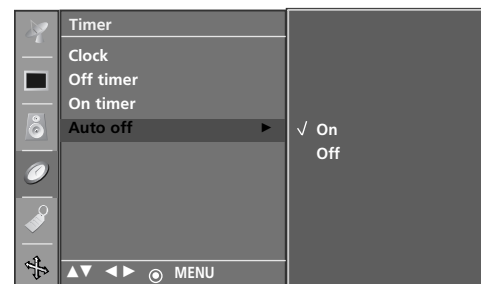
## AUTO OFF

If set to on and there is no input signal, the TV turns off automatically after 10 minutes.

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **Timer** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **Auto off**.
- 3 Press the **▶** button and then **▲ / ▼** button to select **On** or **Off**.
- 4 Press the **EXIT** button to return to TV viewing or press the **MENU** button to return to the previous menu.



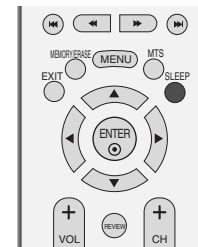
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## SLEEP TIMER

You don't have to remember to switch the set off before you go to sleep. The sleep timer automatically switches the set to stand-by after the preset time has elapsed.



- 1 Press the **SLEEP** button repeatedly to select the number of minutes. The display 'Ⓛ z z - - - ' will appear on the screen, followed by 10, 20, 30, 60, 90, 120, 180 and 240.
- 2 When the number of minutes you want is displayed on the screen, the timer begins to count down from the number of minutes selected.

### ! NOTE

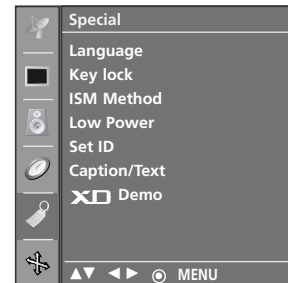
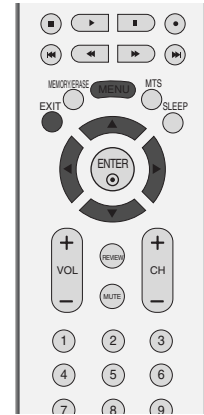
- ▶ To view the remaining sleep time, press the **SLEEP** button once.
- ▶ To cancel the sleep time, repeatedly press the **SLEEP** button until the display 'Ⓛ z z - - - ' appears.
- ▶ When you switch the set off, the set releases the preset sleep time.

# TV MENU      Special Menu Options

## LANGUAGE

The menus can be shown on the screen in the selected language.  
First select your language.

- 1 Press the **MENU** button and then ▲ / ▼ button to select the **Special** menu.
- 2 Press the ► button and then ▲ / ▼ button to select **Language**.
- 3 Press the ► button and then ▲ / ▼ button to select your desired language.
- 4 Press the **EXIT** button to return to TV viewing or press the **MENU** button to return to the previous menu.

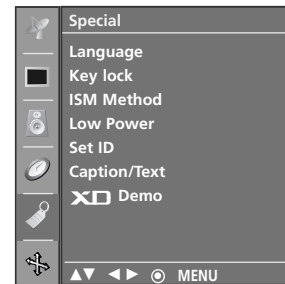


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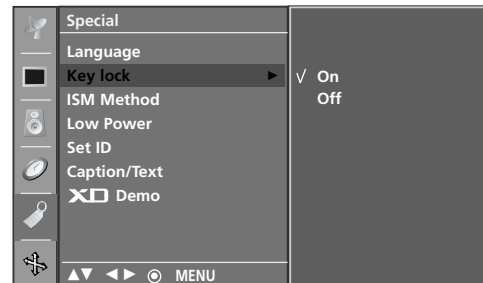
# KEY LOCK

The TV can be set so that the remote control is needed to control it. This feature can be used to prevent unauthorized viewing. This set is programmed to remember which option it was last set to even if you turn the set off.

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **Special** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **Key lock**.
- 3 Press the **▶** button and then **▲ / ▼** button to select **On** or **Off**.
- 4 Press the **EXIT** button to return to TV viewing or press the **MENU** button to return to the previous menu.



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TV MENU

**NOTE**

- ▶ In **Key lock 'On'**, if the set is turned off, press the **⏻ / I**, **INPUT**, **CH ▲ / ▼** button on the set or **POWER**, **INPUT**, **TV**, **CH +/-** or **NUMBER** buttons on the remote control.
- ▶ With the **Key lock On**, the display **'Key lock'** appears on the screen if any button on the front panel is pressed while viewing the set.

## ISM (IMAGE STICKING MINIMIZATION) METHOD

A frozen or still picture from a PC/video game displayed on the screen for prolonged periods will result in a ghost image remaining even when you change the image. Avoid allowing a fixed image to remain on the set's screen for a long period of time.

It's not available to use this function in 26/32LC2R/32LC3R models.

### White wash

White wash removes permanent images from the screen.

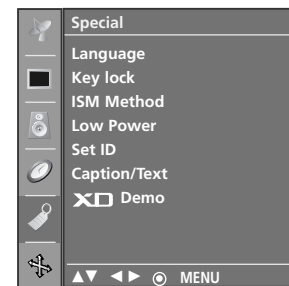
**Note:** An excessive permanent image may be impossible to clear entirely with White Wash.

### Orbiter

Orbiter may help prevent ghost images. However, it is best not to allow any fixed image to remain on the screen. To avoid a permanent image on the screen, the screen will move every 2 minutes.

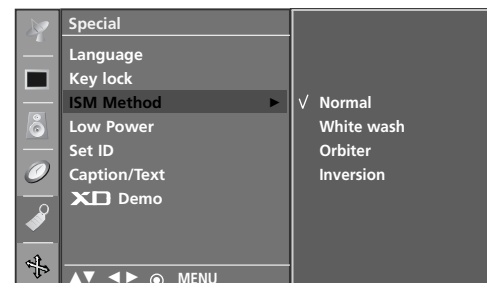
### Inversion

This is the function to invert the panel color of the screen. The panel color is automatically inverted every 30 minutes.



1

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **Special** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **ISM Method**.
- 3 Press the **▶** button and then **▲ / ▼** button to select either **Normal**, **White wash**, **Orbiter** or **Inversion**. If you unnecessary to set this function, set **Normal**.
- 4 Press the **EXIT** button to return to TV viewing or press the **MENU** button to return to the previous menu.



2 3

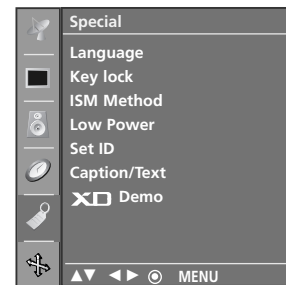
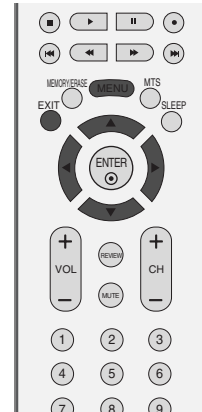


# LOW POWER

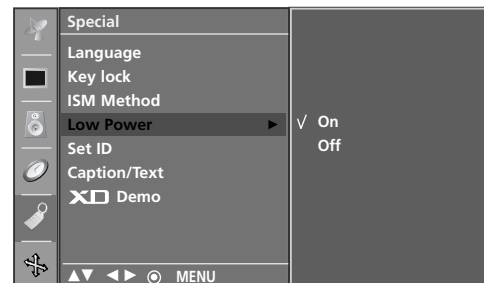
This is the function to reduce the power consumption of the set.

It's not available to use this function in 26/32LC2R/32LC3R models.

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **Special** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **Low power**.
- 3 Press the **▶** button and then **▲ / ▼** button to select **On** or **Off**.
- 4 Press the **EXIT** button to return to TV viewing or press the **MENU** button to return to the previous menu.



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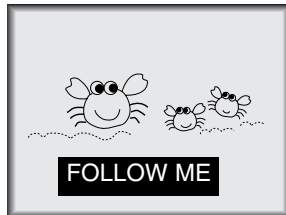
TV MENU

# CLOSED CAPTIONS

Closed captioning is a process which converts the audio portion of a television program into written words which then appear as subtitles on the television screen. Closed captions allow viewers to read the dialogue and narration of television programs.

### Using Closed Captions

Captions are the subtitles of the dialogue and narration of television programs. For prerecorded programs, program dialogue can be arranged into captions in advance. Its possible to caption a live program by using a process called real-time captioning, which creates captions instantly. Real-time captioning is normally done by professional reporters using a machine shorthand system and computer for translation into English.



Captioning is an effective system for the hearing-impaired, and it can also aid in teaching language skills.

- The picture at left shows a typical caption.

### Caption Tips

- Not all TV broadcasts include closed caption signals.
- Sometimes TV stations broadcast four different caption signals on the same channel. By selecting Mode1 to Mode2, you can choose which signal you view. Mode1 is usually the signal with the captions, while Another mode might show demonstration or programming information.
- Your TV might not receive caption signals normally in the following situations.

1. Poor reception conditions are encountered:



#### • IGNITION:

Picture may flutter, drift, suffer from black spots, or horizontal streaking. Usually caused by interference from automobile ignition systems, neon lamps, electrical drills, and other electrical appliances.



#### • GHOSTS:

Ghosts are caused when the TV signal splits and follows two paths. One is the direct path and the other is reflected off tall buildings, hills or other objects. Changing the direction or position of the antenna may improve reception.

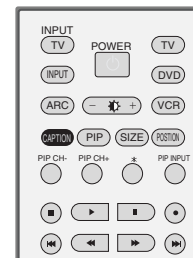


#### • SNOW:

If your receiver is located at the weak, fringe area of a TV signal, your picture may be marred by small dots. It may be necessary to install a special antenna to improve the picture.

2. An old, bad, or illegally recorded tape is being played.
3. Strong, random signals from a car or airplane interfere with the TV signal.
4. The signal from the antenna is weak.
5. The program wasn't captioned when it was produced, transmitted, or taped.

- 1 Use the **CAPTION** button repeatedly to select your caption Mode1, Mode2, Text1, Text2, Off.
- 2 Press the **EXIT** button to return to TV viewing or press the **MENU** button to return to the previous menu.



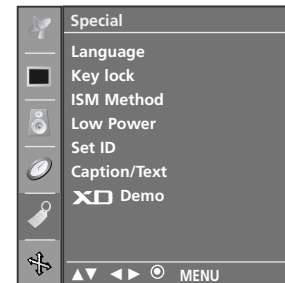
- You can also adjust **Caption/Text** in the **Special** menu.

# XD DEMO

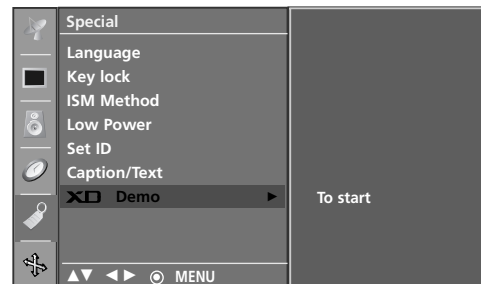
Use it to see the difference between XD Demo on and XD Demo off.

It's not available to use this function in RGB[PC] mode.

- 1 Press the **MENU** button and then use **▲ / ▼** button to select the **Special** menu.
- 2 Press the **▶** button and then use **▲ / ▼** button to select **XD Demo**.
- 3 Press the **▶** button to begin **XD Demo**.
- 4 To stop **XD Demo**, press the **MENU** button.



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## • XD Demo



# TV MENU      Screen Menu Options

## AUTO CONFIGURE (RGB [PC] MODE ONLY)

Automatically adjusts picture position and minimizes image shaking.

Although the image is still not correct, your set is functioning properly but needs further adjustment.

### Auto configure

This function is for the automatic adjustment of the screen position, clock, and phase. The displayed image will be unstable for a few seconds while the auto configuration is in progress.



---

**1** Press the **MENU** button and then use **▲ / ▼** button to select the **Screen** menu.

---

**2** Press the **▶** button and then use **▲ / ▼** button to select **Auto config.**

---

**3** Press the **▶** button to start **Auto config.**

- When **Auto config.** has finished, **OK** will be shown on screen.
- If the position of the image is still not correct, try Auto adjustment again.

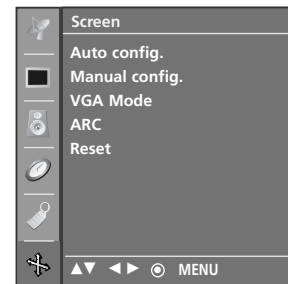
---

**4** If picture needs to be adjusted more after Auto adjustment in RGB (PC), you can adjust the **Manual config.**

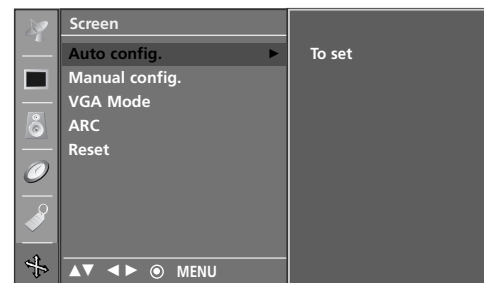
---

**5** Press the **EXIT** button to return to TV viewing or press the **MENU** button to return to the previous menu.

---



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# MANUAL CONFIGURE

If the picture isn't clear after auto adjustment and especially if characters are still trembling, adjust the picture phase manually.

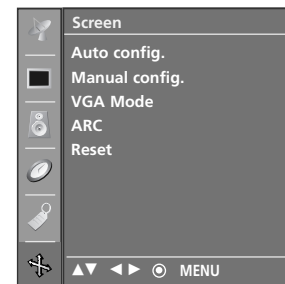
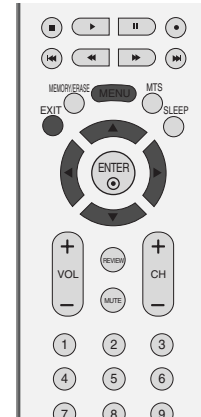
To correct the screen size, adjust Clock.

This function works in the following mode : RGB[PC], RGB[DTV], COMPONENT (480p/720p/1080i), HDMI (480p/720p/1080i).

It's not available to use Phase, Clock function in RGB[DTV], COMPONENT (480p/720p/1080i), HDMI (480p/720p/1080i).

**Clock** This function is to minimize any vertical bars or stripes visible on the screen background. And the horizontal screen size will also change.

**Phase** This function allows you to remove any horizontal noise and clear or sharpen the image of characters.



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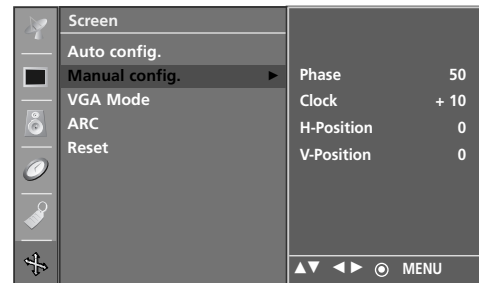
1 Press the **MENU** button and then use **▲ / ▼** button to select the **Screen** menu.

2 Press the **▶** button and then **▲ / ▼** button to select **Manual config.**

3 Press the **▶** button and then **▲ / ▼** button to select **Phase, Clock, H-position** or **V-position**.

4 Press the **◀ / ▶** button to make appropriate adjustments.

5 Press the **EXIT** button to return to TV viewing or press the **MENU** button to return to the previous menu.

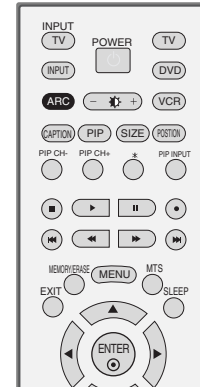


2 3 4

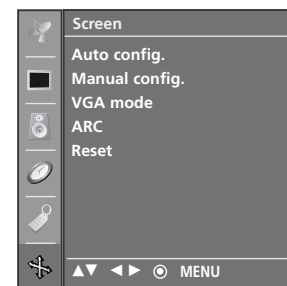
## SETTING THE PICTURE FORMAT

You can watch the screen in various picture formats; 4:3, 16:9, Horizon and Zoom1/2.

If a fixed image is displayed on the screen for a long time, that fixed image may become imprinted on the screen and remain visible.



- 1 Press the **ARC** button repeatedly to select the desired picture format.
  - **4:3**  
Following selection will lead you to view a picture with an original 4:3 aspect ratio, with gray bars appearing at both the left and right sides.
  - **16:9 (Wide)**  
Following selection will lead you to adjust the picture horizontally, in a linear proportion, to fill the entire screen (useful for viewing 4:3 formatted DVDs).
  - **Horizon**  
Choose Horizon when you want to adjust the picture in a non-linear proportion, that is, more enlarged at both sides, to create a spectacular view.
  - **Zoom1**  
Following selection will lead you to view the picture without any alternation, while filling the entire screen. However, the top and bottom portions of the picture will be cropped.
  - **Zoom2**  
Choose **Zoom2** when you want the picture to be altered, both horizontally extended and vertically cropped. The picture taking a halfway trade off between alteration and screen coverage.



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- 2 Press the **EXIT** button to return to TV viewing or press the **MENU** button to return to the previous menu.

- You can also adjust **ARC** in the **Screen** menu.

### ! NOTE

- ▶ You can only select **4:3**, **16:9 (Wide)** in Component, RGB, HDMI mode only.

## SELECTING WIDE VGA/XGA MODE

To see a normal picture, match the resolution of RGB mode and selection of VGA/XGA mode.

This function works in the following mode: RGB[PC] mode.

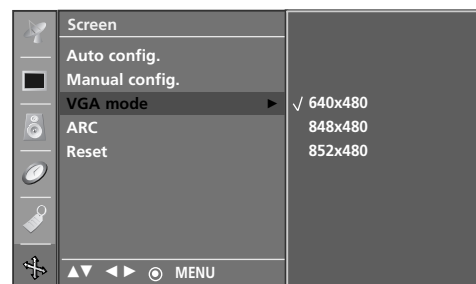
- VGA Mode: 42PC1RV, 42PC1RVH
- XGA Mode: 26/32LC2R/32LC3R, 42PC1R, 42PC7R, 42PC7RH



- 1 Press the **MENU** button and then use ▲ / ▼ button to select the **Screen** menu.
- 2 Press the ► button and then use ▲ / ▼ button to select **VGA mode** (or **XGA mode**).
- 3 Press the ► button and then use ▲ / ▼ button to select the desired VGA/XGA resolution.
- 4 Press the **EXIT** button to return to TV viewing or press the **MENU** button to return to the previous menu.



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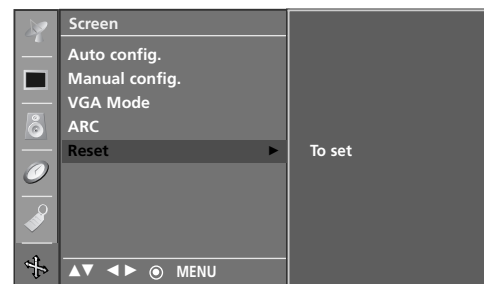
# INITIALIZING (RESET TO ORIGINAL FACTORY SETTINGS)

This function operates in current mode.  
To initialize the adjusted value.

- 1 Press the **MENU** button and then ▲ / ▼ button to select the **Screen** menu.
- 2 Press the ► button and then ▲ / ▼ button to select **Reset**.
- 3 Press the ► button.
  - You can initialize Position, PIP size, PIP position. (PIP size and PIP position are available to work in PIP mode only.)



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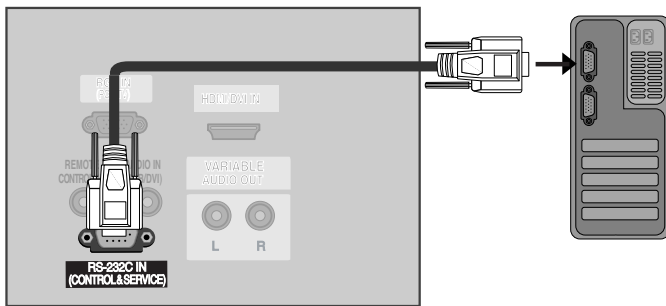
# APPENDIX

## EXTERNAL CONTROL DEVICE SETUP

Connect the RS-232C input jack to an external control device (such as a computer or an A/V control system) and control the Monitor's functions externally.

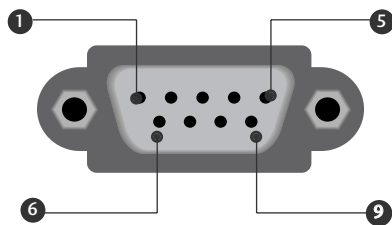
Connect the serial port of the control device to the RS-232C jack on the Monitor back panel. RS-232C connection cables are not supplied with the Monitor.

### RS-232C Setup



### Type of Connector; D-Sub 9-Pin Male

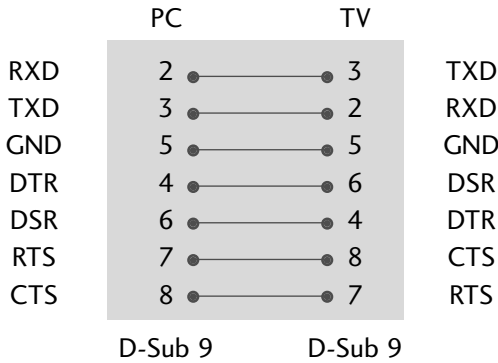
No.	Pin Name
1	No connection
2	RXD (Receive data)
3	TXD (Transmit data)
4	DTR (DTE side ready)
5	GND
6	DSR (DCE side ready)
7	RTS (Ready to send)
8	CTS (Clear to send)
9	No Connection



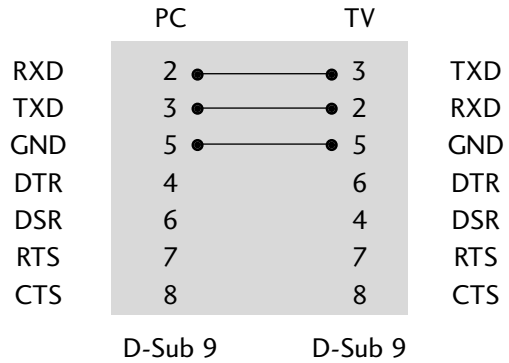
# APPENDIX

## RS-232C Configurations

### 7-Wire Configurations (Standard RS-232C cable)



### 3-Wire Configurations (Not standard)

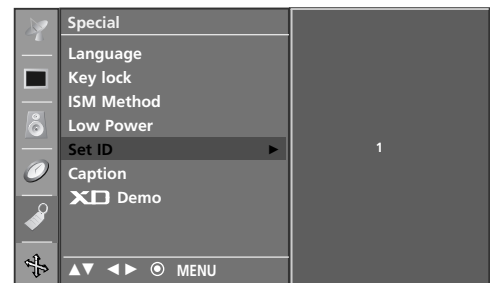


## Set ID

- Use this function to specify a set ID number.
- Refer to 'Real Data Mapping 1'. See page 68.

TV MENU

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **Special** menu.
- 2 Press the **▶** button and then use **▲ / ▼** button to select **Set ID**.
- 3 Press the **▶** button and then use **◀ / ▶** button to adjust **Set ID** to choose the desired monitor ID number.
  - The adjustment range of **Set ID** is 1 ~ 99.
- 4 Press the **EXIT** button to return to normal TV viewing.



## Communication Parameters

- Baud rate : 9600 bps (UART)
- Data length : 8 bits
- Parity : None
- Stop bit : 1 bit
- Communication code : ASCII code
- Use a crossed (reverse) cable.

## Command Reference List

	COMMAND1	COMMAND2	DATA (Hexadecimal)		COMMAND1	COMMAND2	DATA (Hexadecimal)
01. Power	k	a	0 ~ 1	16. Color Temperature	k	u	0 ~ 3
02. Aspect Ratio	k	c	*	17. Red Adjustment	k	v	0 ~ 3C (or 50)
03. Screen Mute	k	d	0 ~ 1	18. Green Adjustment	k	w	0 ~ 3C (or 50)
04. Volume Mute	k	e	0 ~ 1	19. Blue Adjustment	k	\$	0 ~ 3C (or 50)
05. Volume Control	k	f	0 ~ 64	20. Abnormal Status (option)	k	z	FF
06. Contrast	k	g	0 ~ 64	21. ISM Method (option)	j	p	0 ~ 3
07. Brightness	k	h	0 ~ 64	22. Low Power (option)	j	q	0 ~ 1
08. Color	k	i	0 ~ 64	23. Orbiter Time Setting (option)	j	r	1 ~ FE
09. Tint	k	j	0 ~ 64	24. Orbiter Pixel Setting (option)	j	s	1 ~ 3
10. Sharpness	k	k	0 ~ 64	25. Auto Configure	j	u	1
11. OSD Select	k	l	0 ~ 1	26. Tune Command	m	a	*
12. Remote Control lock mode	k	m	0 ~ 1	27. Key	m	c	Key Code
13. PIP/DW	k	n	0 ~ 2	28. Input select (Main)	x	b	*
14. PIP Position	k	q	0 ~ 3	29. Input select (PIP)	x	y	*
15. Balance	k	t	0 ~ 64	30. Channel Add/Del	m	b	0 ~ 1

## Transmission / Receiving Protocol

### Transmission

**[Command1][Command2][ ][Set ID][ ][Data][Cr]**

[Command 1] : First command to control the set.(j,k,mor x)

[Command 2] : Second command to control the set.

[Set ID] : You can adjust the set ID to choose desired TV ID number in Setup menu. Adjustment range is 1 ~ 99. When selecting Set ID '0', every connected the TV is controlled. Set ID is indicated as decimal (1 ~ 99) on menu and as Hexa decimal (0x0 ~ 0x63) on transmission/receiving protocol.

[DATA] : To transmit command data.

Transmit 'FF' data to read status of command.

[Cr] : Carriage Return

ASCII code '0x0D'

[ ] : ASCII code 'space (0x20)'

### OK Acknowledgement

**[Command2][ ][Set ID][ ][OK][Data][x]**

The TV transmits ACK (acknowledgement) based on this format when receiving normal data. At this time, if the data is data read mode, it indicates present status data. If the data is data write mode, it returns the data of the PC computer.

### Error Acknowledgement

**[Command2][ ][Set ID][ ][NG][Data][x]**

The TV transmits ACK (acknowledgement) based on this format when receiving abnormal data from non-viable functions or communication errors.

Data1: Illegal Code

Data2: Not supported function

Data3: Wait more time

# APPENDIX

## 01. Power (Command2:a)

To control Power On/Off of the TV.

*Transmission* [k][a][ ][Set ID][ ][Data][Cr]

Data 0 : Power Off      Data 1 : Power On

*Acknowledgement* [a][ ][Set ID][ ][OK][Data][x]

To show Power On/Off.

*Transmission* [k][a][ ][Set ID][ ][FF][Cr]

*Acknowledgement* [a][ ][Set ID][ ][OK][Data][x]

- \* In a like manner, if other functions transmit 'FF' data based on this format, Acknowledgement data feedback presents status about each function.
- \* To change the Power on input the transmission more than twice.

## 02. Aspect Ratio (Command2:c) (Main picture size)

To adjust the screen format. (Main picture format)

You can also adjust the screen format using the ARC (Aspect Ratio Control) button on remote control or in the SCREEN menu.

*Transmission* [k][c][ ][Set ID][ ][Data][Cr]

Data 1: Normal screen (4:3)      Data 4: Full screen (Zoom1)  
Data 2: Wide screen (16:9)      Data 5: Full screen (Zoom2)  
Data 3: Horizon

*Acknowledgement* [c][ ][Set ID][ ][OK][Data][x]

- \* Using the RGB-PC or Component input, you select either 16:9 or 4:3 screen aspect ratio.

## 03. Screen Mute (Command2:d)

To select screen mute on/off.

*Transmission* [k][d][ ][Set ID][ ][Data][Cr]

Data 0 : Screen mute off (Picture on)  
Data 1 : Screen mute on (Picture off)

*Acknowledgement* [d][ ][Set ID][ ][OK][Data][x]

## 04. Volume Mute (Command2:e)

To control volume mute on/off.

You can also adjust mute using the MUTE button on remote control.

*Transmission* [k][e][ ][Set ID][ ][Data][Cr]

Data 0 : Volume mute off (Volume on)  
Data 1 : Volume mute on (Volume off)

*Acknowledgement* [e][ ][Set ID][ ][OK][Data][x]

## 05. Volume Control (Command2:f)

To adjust volume.

You can also adjust volume with the volume buttons on remote control.

*Transmission* [k][f][ ][Set ID][ ][Data][Cr]

Data Min : 0 ~ Max : 64

Refer to 'Real data mapping 1'. See page 68.

*Acknowledgement* [f][ ][Set ID][ ][OK][Data][x]

## 06. Contrast (Command2:g)

To adjust screen contrast.

You can also adjust contrast in the PICTURE menu.

*Transmission* [k][g][ ][Set ID][ ][Data][Cr]

Data Min : 0 ~ Max : 64

Refer to 'Real data mapping 1'. See page 68.

*Acknowledgement* [g][ ][Set ID][ ][OK][Data][x]

## 07. Brightness (Command2:h)

To adjust screen brightness.

You can also adjust brightness in the PICTURE menu.

*Transmission* [k][h][ ][Set ID][ ][Data][Cr]

Data Min : 0 ~ Max : 64

Refer to 'Real data mapping 1'. See page 68.

*Acknowledgement* [h][ ][Set ID][ ][OK][Data][x]

## 08. Color (Command2:i)

To adjust the screen color.

You can also adjust color in the PICTURE menu.

*Transmission* [k][i][ ][Set ID][ ][Data][Cr]

Data Min : 0 ~ Max : 64

Refer to 'Real data mapping 1'. See page 68.

*Acknowledgement* [i][ ][Set ID][ ][OK][Data][x]

## 09. Tint (Command2:j)

To adjust the screen tint.

You can also adjust tint in the PICTURE menu.

*Transmission* [k][j][ ][Set ID][ ][Data][Cr]

Data Red : 0 ~ Green : 64

Refer to 'Real data mapping 1'. See page 68.

*Acknowledgement* [j][ ][Set ID][ ][OK][Data][x]

**10. Sharpness (Command2:k)**

To adjust the screen sharpness.

You can also adjust sharpness in the PICTURE menu.

*Transmission* [k][k][ ][Set ID][ ][Data][Cr]

Data Min: 0 ~ Max: 64

Refer to 'Real data mapping 1'. See page 68.

*Acknowledgement* [k][ ][Set ID][ ][OK][Data][x]

**11. OSD Select (Command2:l)**

To select OSD (On Screen Display) on/off when controlling remotely.

*Transmission* [k][l][ ][Set ID][ ][Data][Cr]

Data 0: OSD off

Data 1: OSD on

*Acknowledgement* [l][ ][Set ID][ ][OK][Data][x]

**12. Remote Control Lock Mode (Command2:m)**

To lock the remote control and the front panel controls on the set.

*Transmission* [k][m][ ][Set ID][ ][Data][Cr]

Data 0: Lock off

Data 1: Lock on

*Acknowledgement* [m][ ][Set ID][ ][OK][Data][x]

If you're not using the remote control and front panel controls on the TV, use this mode. When main power is on/off, remote control lock is released.

**13. PIP / DW (Command2:n)**

To control the PIP (Picture In picture)/DW.

You can also control the PIP/DW using the PIP button on the remote control or in the PIP/DW menu.

*Transmission* [k][n][ ][Set ID][ ][Data][Cr]

Data 0: PIP/DW off

Data 1: PIP

Data 2: DW1 (option)

Data 3: DW2

Data 5: POP (option)

*Acknowledgement* [n][ ][Set ID][ ][OK][Data][x]

**14. PIP Position (Command2:q)**

To select sub picture position for PIP.

You can also adjust the sub picture position using POSITION button on the remote control or in the PIP/DW menu.

*Transmission* [k][q][ ][Set ID][ ][Data][Cr]

Data 0: Right down on screen

Data 1: Left down on screen

Data 2: Left up on screen

Data 3: Right up on screen

*Acknowledgement* [q][ ][Set ID][ ][OK][Data][x]

**15. Balance (Command2:t)**

To adjust balance.

You can also adjust balance in the SOUND menu.

*Transmission* [k][t][ ][Set ID][ ][Data][Cr]

Data Min: 0 ~ Max: 64

Refer to 'Real data mapping 1'. See page 68.

*Acknowledgement* [t][ ][Set ID][ ][OK][Data][x]

**16. Color Temperature (Command2:u)**

To adjust color temperature.

You can also adjust ACC in the PICTURE menu.

*Transmission* [k][u][ ][Set ID][ ][Data][Cr]

Data 0: Cool 1: Normal 2: Warm 3: User

*Acknowledgement* [u][ ][Set ID][ ][OK][Data][x]

**17. Red Adjustment (Command2:v)**

To adjust red in color temperature.

*Transmission* [k][v][ ][Set ID][ ][Data][Cr]

Data Min: 0 ~ Max: 3C (or 50)

Refer to 'Real data mapping 2'. See page 68.

*Acknowledgement* [v][ ][Set ID][ ][OK][Data][x]

**18. Green Adjustment (Command2:w)**

To adjust green in color temperature.

*Transmission* [k][w][ ][Set ID][ ][Data][Cr]

Data Min: 0 ~ Max: 3C (or 50)

Refer to 'Real data mapping 2'. See page 68.

*Acknowledgement* [w][ ][Set ID][ ][OK][Data][x]

**19. Blue Adjustment (Command2:\$)**

To adjust blue in color temperature.

*Transmission* [k][\$][ ][Set ID][ ][Data][Cr]

Data Min: 0 ~ Max: 3C (or 50)

Refer to 'Real data mapping 2'. See page 68.

*Acknowledgement* [\$][ ][Set ID][ ][OK][Data][x]

# APPENDIX

## 20. Abnormal State (Command2:z)

To recognize an abnormal state. (This feature is not available for all models.)

*Transmission* [k][z][ ][Set ID][ ][FF][ ][Cr]

Data FF: Read

*Acknowledgement* [z][ ][Set ID][ ][OK][Data][x]

Data 0: Normal (Power on and signal exist)

Data 1: No signal (Power on)

Data 2: Turn the TV off by remote control

Data 3: Turn the TV off by sleep time function

Data 4: Turn the TV off by RS-232C function

Data 5: 5V down

Data 6: AC down

Data 7: Turn the TV off by Fan Alarm function (option)

Data 8: Turn the TV off by Off time function

Data 9: Turn the TV off by Auto sleep function

\* This function is "read only".

## 21. ISM Method (Command1:j, Command2:p)

To control the ISM method. You can also adjust ISM Method in SPECIAL menu. (This feature is not available for all models.)

*Transmission* [j][p][ ][Set ID][ ][Data][Cr]

Data 0: Normal Mode      Data 1: White Wash

Data 2: Orbiter            Data 3: Inversion

*Acknowledgement* [p][ ][Set ID][ ][OK][Data][x]

## 22. Low Power (Command1:j, Command2:q)

To reduce the power consumption of the monitor. You can also adjust Low Power in SPECIAL menu. (This feature is not available for all models.)

*Transmission* [j][q][ ][Set ID][ ][Data][ ][Cr]

Data 0: Off                      Data 1: On

*Acknowledgement* [q][ ][Set ID][ ][OK][Data][x]

## 23. Orbiter Time Setting (Command1:j, Command2:r)

To adjust orbiter operation time term. (This feature is not available for all models.)

*Transmission* [j][r][ ][Set ID][ ][Data][ ][Cr]

Data Min: 1 ~ Max: FE

Refer to 'Real data mapping 1'.

*Acknowledgement* [r][ ][Set ID][ ][OK][Data][x]

## 24. Orbiter Pixel Setting (Command1:j, Command2:s)

To adjust pixel number in orbiter function. (This feature is not available for all models.)

*Transmission* [j][s][ ][Set ID][ ][Data][Cr]

Data Min: 1 ~ Max: 3

Refer to 'Real data mapping 1'.

*Acknowledgement* [s][ ][Set ID][ ][OK][Data][x]

## 25. Auto Configure (Command1:j, Command2:u)

To adjust picture position and minimize image shaking automatically. It works only in RGB (PC) mode.

*Transmission* [j][u][ ][Set ID][ ][Data][Cr]

Data 1: To set

*Acknowledgement* [u][ ][Set ID][ ][OK][Data][x]

## 26. Tune Command (Command1:m, Command2:a)

Tune channel to following physical number.

*Transmission* [m][a][ ][Set ID][ ][Data0][ ][Data1][ ][Data2][ ][Data3][ ][Data4][ ][Data5][ ][Cr]

Data 0: Air: 02 ~ 45, CATV: 01, 0E ~ 87

Refer to 'Real data mapping 1'.

Data 1: Don't care

Data 2: Don't care

Data 3: Don't care

Data 4: Don't care

Data 5: 0 : Main[Air]                      80 : Sub[Air] (option)

1 : Main[Cable]                      81 : Sub [Cable]

*Acknowledgement* [a][ ][Set ID][ ][OK][Data0][x]

Data Min: 0 ~ Max: 87

### \* Real data mapping 1

0 : Step 0  
 ⋮  
 A : Step 10 (Set ID 10)  
 ⋮  
 F : Step 15 (Set ID 15)  
 10 : Step 16 (Set ID 16)  
 ⋮  
 64 : Step 100  
 ⋮  
 6E : Step 110  
 ⋮  
 73 : Step 115  
 74 : Step 116  
 ⋮  
 C7 : Step 199  
 ⋮  
 FE : Step 254  
 FF : Step 255

### \* Real data mapping 2

0 : -30  
 1 : -29  
 2 : -28  
 ⋮  
 1E : 0  
 ⋮  
 3A : +28  
 3B : +29  
 3C : +30

### 27. Key (Command1:m, Command2:c)

To send IR remote key code.

*Transmission* [m][c][ ][Set ID][ ][Data][Cr]

Data: Key code - Refer to page 71.

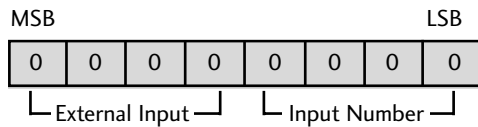
*Acknowledgement* [c][ ][Set ID][ ][OK][Data][x]

### 28. Input select (Command1:x, Command2:b) (Main Picture Input)

To select input source for TV.

*Transmission* [x][b][ ][Set ID][ ][Data][Cr]

Data: Structure



External Input				Data
0	0	0	1	Analog
0	0	1	0	AV
0	1	0	0	Component
0	1	0	1	RGB-DTV
0	1	1	0	RGB-PC
1	0	0	1	HDMI (option)

Input Number				Data
0	0	0	0	Input1
0	0	0	1	Input2

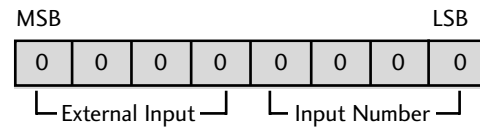
*Acknowledgement* [b][ ][Set ID][ ][OK][Data][x]

### 29. Input select (Command1:x, Command2:y)

To adjust input source for sub picture in PIP mode.

*Transmission* [x][y][ ][Set ID][ ][Data][Cr]

Data: Structure



External Input				Data
0	0	0	1	Analog
0	0	1	0	AV

Input Number				Data
0	0	0	0	Input1
0	0	0	1	Input2

*Acknowledgement* [y][ ][Set ID][ ][OK][Data][x]

### 30. Channel Add/Del (Command1:m, Command2:b)

To add and delete the channel.

*Transmission* [m][b][ ][Set ID][ ][Data][Cr]

Data 0: Delete

Data 1: Add

*Acknowledgement* [b][ ][Set ID][ ][OK][Data][x]

# APPENDIX

## IR CODES

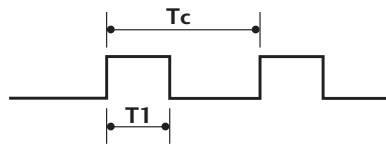
### 1. How to Connect

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

### 2. Remote Control IR Codes

#### ■ Output waveform

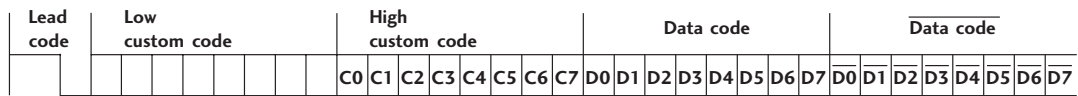
Single pulse, modulated with 37.917KHz signal at 455KHz



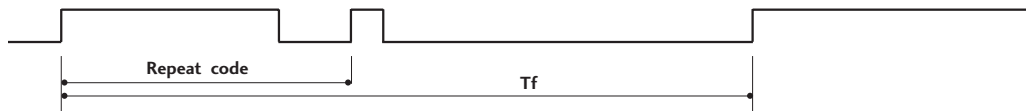
Carrier frequency  
 $FCAR = 1/TC = fOSC/12$   
 Duty ratio =  $T1/TC = 1/3$

#### ■ Configuration of frame

1st frame



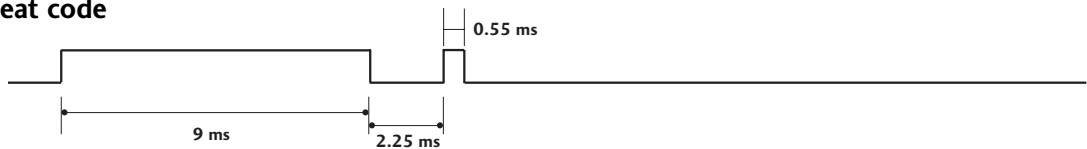
Repeat frame



#### ■ Lead code

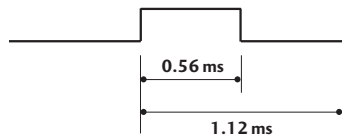


#### ■ Repeat code

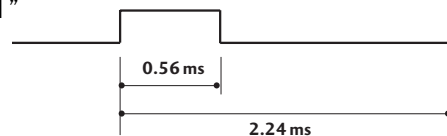


#### ■ Bit description

Bit "0"



Bit "1"



#### ■ Frame interval: Tf

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





## REMOTE CONTROL IR CODES

Code (Hexa)	Function	Note	Code (Hexa)	Function	Note
0F	TV	R/C Button	44	ENTER	R/C Button
0B	INPUT	R/C Button	72	PIP CH-	R/C Button
08	POWER	R/C Button (Power On/Off)	71	PIP CH+	R/C Button
C4	POWER ON	Discrete IR Code (Only Power On)	61	PIP INPUT	R/C Button
C5	POWER OFF	Discrete IR Code (Only Power OFF)	02	VOL +	R/C Button
60	PIP	R/C Button	03	VOL -	R/C Button
0E	SLEEP	R/C Button	00	CH +	R/C Button
38	Caption/Text	R/C Button	01	CH -	R/C Button
0A	MTS	R/C Button	09	MUTE	R/C Button
43	MENU	R/C Button	55	Memory/Erase	R/C Button
79	ARC	R/C Button	10 ~ 19	Number Key 0 ~ 9	R/C Button
5B	EXIT	R/C Button	1E	FCR	R/C Button
07	◀	R/C Button	1A	REVIEW	R/C Button
06	▶	R/C Button	64	SIZE	R/C Button
40	▲	R/C Button	62	PIP: POSITION,	R/C Button
41	▼	R/C Button	E0	☼+	R/C Button
			E1	☼-	R/C Button

# APPENDIX

## PROGRAMMING THE REMOTE

The remote is a multi-brand or a universal remote. It can be programmed to operate most remote-control-able devices of other manufacturers.

Note that the remote may not control all models of other brands.

### Programming a code into a remote mode

- 1 Test your remote control.  
To find out whether your remote control can operate the component without programming, turn on the component such as a VCR and press the corresponding mode button (such as a **DVD** or **VCR**) on the remote control, while pointing at the component. Test the **POWER** and **CH +/-** buttons to see if the component responds properly. If not, the remote requires programming to operate the device.
- 2 Turn on the component to be programmed, then press the corresponding mode button (such as a **DVD** or **VCR**) on the remote control. The remote control button of desired device is lighted.
- 3 Press the **MENU** and **MUTE** buttons simultaneously, the remote control is ready to be programmed for the code.
- 4 Enter a code number using the number buttons on the remote control. Programming code numbers for the corresponding component can be found on the following pages. Again, if the code is correct, the device will turn off.
- 5 Press the **MENU** button to store the code.
- 6 Test the remote control functions to see if the component responds properly. If not, repeat from step 2.

### Programming code

#### DVD

Brand	Codes	Brand	Codes	Brand	Codes
APEX DIGITAL	022	MITSUBISHI	002	RCA	005 006
DENON	020 014	NAD	023	SAMSUNG	011 015
GE	005 006	ONKYO	008 017	SONY	007
HARMAN KARDON	027	PANASONIC	003 009	THOMPSON	005 006
JVC	012	PHILIPS	013	TOSHIBA	019 008
LG	001 010 016 025	PIONEER	004 026	YAMAHA	009 018
MAGNAVOX	013	PROCEED	021	ZENITH	010 016 025
MARANTZ	024	PROSCAN	005 006		

## VCRs

Brand	Codes	Brand	Codes	Brand	Codes
AIWA	034	MAGNAVOX	031 033 034 041	SAMSUNG	032 040 102 104
AKAI	016 043 046 124		067 068		105 107 109 112
	125 146	MARANTZ	012 031 033 067		113 115 120 122
AMPRO	072		069		125
ANAM	031 033 103	MARTA	101	SANSUI	022 043 048 135
AUDIO DYNAMICS	012 023 039 043	MATSUI	027 030	SANYO	003 007 010 014
BROKSONIC	035 037 129	MEI	031 033		102 134
CANON	028 031 033	MEMOREX	003 010 014 031	SCOTT	017 037 112 129
CAPEHART	108		033 034 053 072		131
CRAIG	003 040 135		101 102 134 139	SEARS	003 008 009 010
CURTIS MATHES	031 033 041	MGA	045 046 059		013 014 017 020
DAEWOO	005 007 010 064	MINOLTA	013 020		031 042 073 081
	065 108 110 111	MITSUBISHI	013 020 045 046		101
	112 116 117 119		049 051 059 061	SHARP	031 054 149
DAYTRON	108		151	SHINTOM	024
DBX	012 023 039 043	MTC	034 040	SONY	003 009 031 052
DYNATECH	034 053	MULTITECH	024 034		056 057 058 076
ELECTROHOME	059	NEC	012 023 039 043		077 078 149
EMERSON	006 017 025 027		048	SOUNDESIGN	034
	029 031 034 035	NORDMENDE	043	STS	013
	036 037 046 101	OPTONICA	053 054	SYLVANIA	031 033 034 059
	129 131 138 153	PANASONIC	066 070 074 083		067
FISHER	003 008 009 010		133 140 145	SYMPHONIC	034
FUNAI	034			TANDY	010 034
GE	031 033 063 072	PENTAX	013 020 031 033	TATUNG	039 043
	107 109 144 147		063	TEAC	034 039 043
GO VIDEO	132 136	PHILCO	031 034 067	TECHNICS	031 033 070
HARMAN KARDON	012 045	PHILIPS	031 033 034 054	TEKNIKA	019 031 033 034
HITACHI	004 018 026 034		067 071 101		101
	043 063 137 150	PILOT	101	THOMAS	034
INSTANTREPLAY	031 033	PIONEER	013 021 048	TMK	006
JCL	031 033	PORTLAND	108	TOSHIBA	008 013 042 047
JCPENNY	012 013 015 033	PULSAR	072		059 082 112 131
	040 066 101	QUARTZ	011 014	TOTEVISION	040 101
JENSEN	043	QUASAR	033 066 075 145	UNITECH	040
JVC	012 031 033 043	RCA	013 020 033 034	VECTOR RESEARCH	012
	048 050 055 060		040 041 062 063	VICTOR	048
	130 150 152		107 109 140 144	VIDEO CONCEPTS	012 034 046
KENWOOD	014 034 039 043		145 147	VIDEOSONIC	040
	047 048	REALISTIC	003 008 010 014	WARDS	003 013 017 024
LG (GOLDSTAR)	001 012 013 020		031 033 034 040		031 033 034 040
	101 106 114 123		053 054 101		053 054 131
LLOYD	034	RICO	058	YAMAHA	012 034 039 043
LXI	003 009 013 014	RUNCO	148	ZENITH	034 048 056
	017 034 101 106	SALORA	014		058 072 080 101
MAGIN	040				

# APPENDIX

## TROUBLESHOOTING CHECKLIST

The operation does not work normally.	
<b>The remote control doesn't work</b>	<ul style="list-style-type: none"> <li>■ Check to see if there is any object between the product and the remote control causing obstruction.</li> <li>■ Are batteries installed with correct polarity (+ to +, - to -)?</li> <li>■ Correct remote operating mode set: TV, VCR etc.?</li> <li>■ Install new batteries.</li> </ul>
<b>Power is suddenly turned off</b>	<ul style="list-style-type: none"> <li>■ Is the sleep timer set?</li> <li>■ Check the power control settings. Power interrupted</li> <li>■ No broadcast on station tuned with Auto off activated.</li> </ul>

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

**The audio function does not work.**

<p><b>Picture OK &amp; No sound</b></p>	<ul style="list-style-type: none"> <li>■ Press the <b>VOL +/- (or Volume)</b> button.</li> <li>■ Sound muted? Press <b>MUTE</b> button.</li> <li>■ Try another channel. The problem may be with the broadcast.</li> <li>■ Are the audio cables installed properly?</li> </ul>
<p><b>No output from one of the speakers</b></p>	<ul style="list-style-type: none"> <li>■ Adjust Balance in menu option.</li> </ul>
<p><b>Unusual sound from inside the product</b></p>	<ul style="list-style-type: none"> <li>■ A change in ambient humidity or temperature may result in an unusual noise when the product is turned on or off and does not indicate a fault with the product.</li> </ul>

**There is a problem in PC mode. (Only PC mode applied)**

<p><b>The signal is out of range.</b></p>	<ul style="list-style-type: none"> <li>■ Adjust resolution, horizontal frequency, or vertical frequency.</li> <li>■ Check the input source.</li> </ul>
<p><b>Vertical bar or stripe on background &amp; Horizontal Noise &amp; Incorrect position</b></p>	<ul style="list-style-type: none"> <li>■ Work the Auto configure or adjust clock, phase, or H/V position.</li> </ul>
<p><b>Screen color is unstable or single color</b></p>	<ul style="list-style-type: none"> <li>■ Check the signal cable.</li> <li>■ Reinstall the PC video card.</li> </ul>



# APPENDIX

## MAINTENANCE

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

### Cleaning the Screen

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

### Cleaning the Cabinet

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

### Extended Absence

#### CAUTION

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

# PRODUCT SPECIFICATIONS

MODELS		26LC2R (26LC2R-MJ)	32LC2R (32LC2R-MJ)	32LC3R (32LC3R-MJ)
Dimensions (Width x Height x Depth)	including stand	26.8 x 21.3 x 6.8 inches 681.0 x 542.0 x 172.0 mm	31.9 x 24.8 x 9.3 inches 811.0 x 630.0 x 235.0 mm	37.4 x 22.4 x 10.0 inches 924.0 x 570.0 x 254.0 mm
	excluding stand	26.8 x 19.3 x 4.6 inches 681.0 x 490.8 x 119.0 mm	31.9 x 22.3 x 4.9 inches 811.0 x 566.8 x 123.5 mm	37.4 x 20.5 x 4.9 inches 924.0 x 520.0 x 123.5 mm
Weight	including stand	40.8 pounds / 18.5 kg	48.2 pounds / 21.9 kg	46.7 pounds / 21.2 kg
	excluding stand	33.5 pounds / 15.2 kg	40.8 pounds / 18.5 kg	42.5 pounds / 19.3 kg
Power requirement	AC100-240V -50/60Hz, 1.3A, 130W		AC100-240V -50/60Hz, 1.5A, 150W	
Television System	NTSC, PAL-M/N			
Program Coverage	VHF 2 ~ 13, UHF 14 ~ 69, CATV 1 ~ 125			
External Antenna Impedance	75 ohm			
Environment condition	Operating Temperature	32 ~ 104°F (0 ~ 40°C)		
	Operating Humidity	Less than 80%		
Environment condition	Storage Temperature	-4 ~ 140°F (-20 ~ 60°C)		
	Storage Humidity	Less than 85%		

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

# PRODUCT SPECIFICATIONS

MODELS		42PC1R/42PC1RV/42PC1RVH (42PC1R/42PC1RV/42PC1RVH-MJ)
Dimensions (Width x Height x Depth)	including stand	44.4 x 29.5 x 15.0 inches 1129.0 x 748.5 x 380.0 mm
	excluding stand	44.4 x 27.4 x 4.1 inches 1129.0 x 695.0 x 103.7 mm
Weight	including stand	61.1 pounds / 27.7 kg
	excluding stand	53.4 pounds / 24.2 kg
Power requirement Television System Program Coverage External Antenna Impedance		AC100-240V -50/60Hz, 3A, 260W NTSC, PAL-M/N VHF 2 ~ 13, UHF 14 ~ 69, CATV 1 ~ 125 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		42PC7R/42PC7RH (42PC7R/42PC7RH-MA)
Dimensions (Width x Height x Depth)	including stand	47.9 x 27.6 x 11.3 inches 1216.0 x 701.0 x 286.5 mm
	excluding stand	47.9 x 25.6 x 3.3 inches 1216.0 x 649.0 x 85.0 mm
Weight	including stand	67.2 pounds / 30.5 kg
	excluding stand	60.8 pounds / 27.6 kg
Power requirement Television System Program Coverage External Antenna Impedance		AC100-240V -50/60Hz, 3A, 260W NTSC, PAL-M/N VHF 2 ~ 13, UHF 14 ~ 69, CATV 1 ~ 125 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.