

LG Electronics Inc.

LCD TV | PLASMA TV | OWNER'S MANUAL

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LCD TV MODELS PLASMA TV MODELS

37LC2RR* 42PC1RR*
42LC2RR* 50PC1RR*

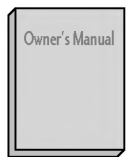
Please read Information Manual included together before reading this manual and operating your set.

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.

Model number :
Serial number :

ACCESSORIES

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



Owner's Manual



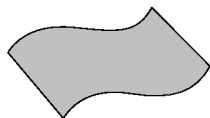
Batteries



Remote Control



Power Cord



Polishing Cloth
Polish the screen with the cloth
(Option)

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 42PC1RR*, 50PC1RR*



2-Wall brackets



2-eye-bolts



2-bolts for stand assembly
(Refer p.11)

This feature is not available for all models.

For 37LC2RR*, 42LC2RR*



2-TV brackets
2-Wall brackets



Twister Holder
Arrange the wires with the twister holder.



Cable
Management



2-bolts

CONTENTS

Accessories	1
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INTRODUCTION

Controls / Connection Options	4-7
Remote Control Key Functions	8-9
Home Menu	10

INSTALLATION

Unfolding The Base Stand	11
Basic connection	12-13
How to join the set assembly to the wall to protect the set tumbling	14
Stand installation	15

CONNECTIONS & SETUP

Antenna Connection	16
VCR Setup	17-18
External Equipment Connections	19
DVD Setup	20-21
STB(SET-TOP BOX) Setup	22-23
PC Setup	24-26

BASIC OPERATION

Turning the set on	27
Volume Adjustment	27
Programme Selection	28
On-Screen Menu Language Selection (option) ...	28

SPECIAL FUNCTIONS

DVR (Digital Video Recorder)

TimeShift	29
Progressing the Timeshift function	30-31
Recording	32-33
Watching & Record	34
Recorded TV	35
Recorded program Selection and Popup Menu	35-36
Playing recorded programs	36
Using the remote control	37
Manual Recording	38
Scheduled List	39
Video Quality	39
Format hard disk	40

PIP/POP/Twin Picture

PIP (Picture-In-Picture) Feature	41
Watching PIP	41
Adjusting PIP Transparency (PIP mode only)	41
Programme Selection for Sub Picture	42
Adjusting the screen for the PIP	42
Selecting an Input Signal Source for the PIP	42
Sub Picture Size Adjustment (PIP mode only)	42
Moving the PIP (PIP mode only)	42
Swapping between main and sub pictures	43
POP (Picture-out-of-Picture: Channel Scan)	43

TELETEXT

Teletext Language Selection (option)	44
Switch on/off	44
SIMPLE Text (option)	45
TOP Text (option)	45
FASTEXT	45
Special Teletext Functions	46

TV MENU

On Screen Menus Selection and Adjustment	47
--	----

Setting up TV stations

Auto programme Tuning	48
Manual programme Tuning	49
Fine tuning	50
Assigning a station name	51
Booster (option)	52
Programme edit	53
Favourite programme	54
Calling the programme table	55

Picture Menu Options

PSM (Picture Status Memory)	56
CSM (Colour Status Memory)	57
Manual Colour Temperature Control (CSM - User option)	58
XD Function	59
sRGB Function	60
ACM (Active Colour Management)	61
Manual Picture Control	62

Sound Menu Options

SSM (Sound Status Memory)	63
AVL (Auto Volume Leveler)	64
Adjusting Sound Control	65
TV Speaker	65
Stereo/Dual Reception	66
NICAM Reception (option)	67
Sound Output Selection	67

Time Menu Options

Setting the Clock	68
Setting the On/Off Time	69
Auto Sleep	70
Sleep Timer	70

Special Menu Options

Child Lock	71
ISM Method (Image Sticking Minimization)	72
Low Power	73
XD Demo	73
Index (option)	74

Screen Menu Options

Auto Config.	75
Manual Config.	76
Selecting Wide XGA/VGA mode	77
Setting Picture Format	78
Cinema	79
NR (Noise Reduction)	80
Initializing (Reset to original factory settings)	80

APPENDIX

External Control Device Setup	81-87
IR Codes	88-89
Programming the Remote	90
Programming Codes	91-94
Troubleshooting Checklist	95-96
Maintenance	97
Product Specifications	98-99

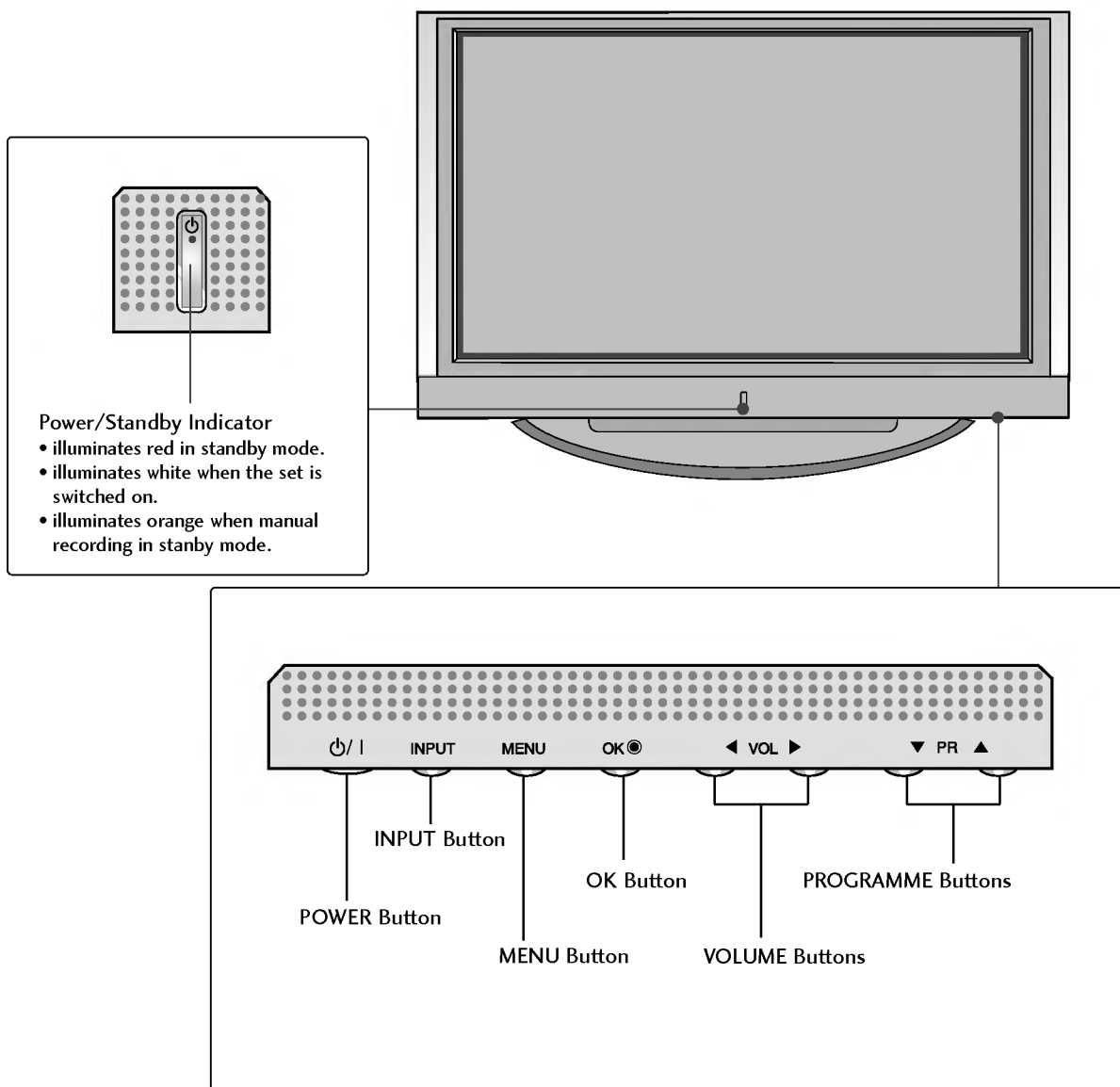
INTRODUCTION

CONTROLS

This manual explains the features available on the 42PC1RR*, 50PC1RR* set.

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

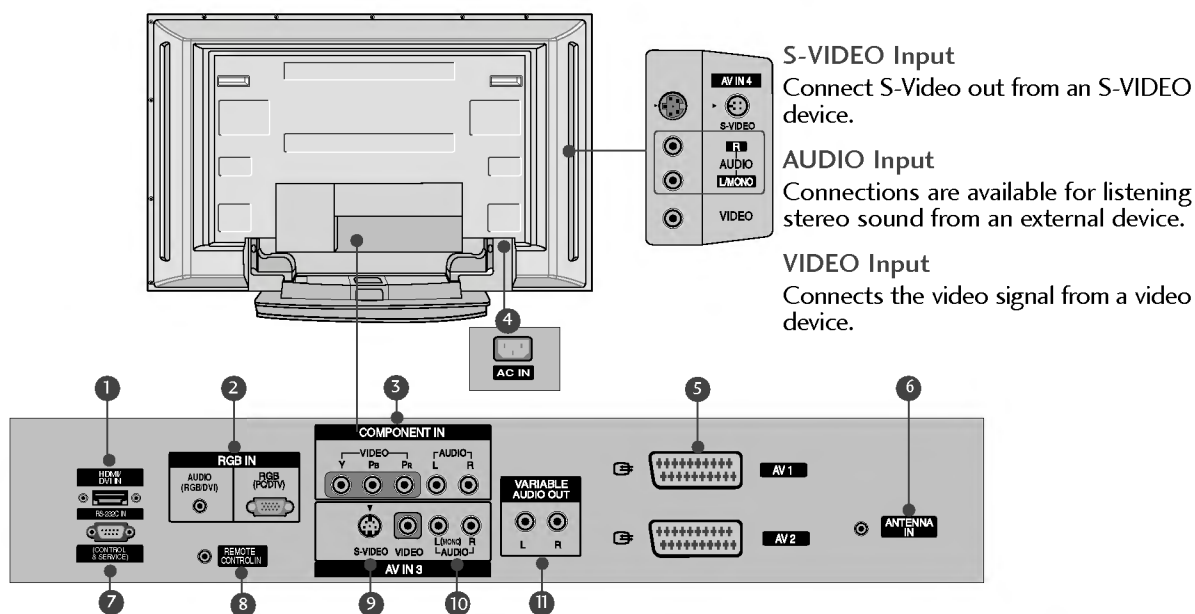
Front Panel Controls



CONNECTION OPTION

This is the back panel of 42PC1RR*, 50PC1RR* sets.

Back Connection Panel



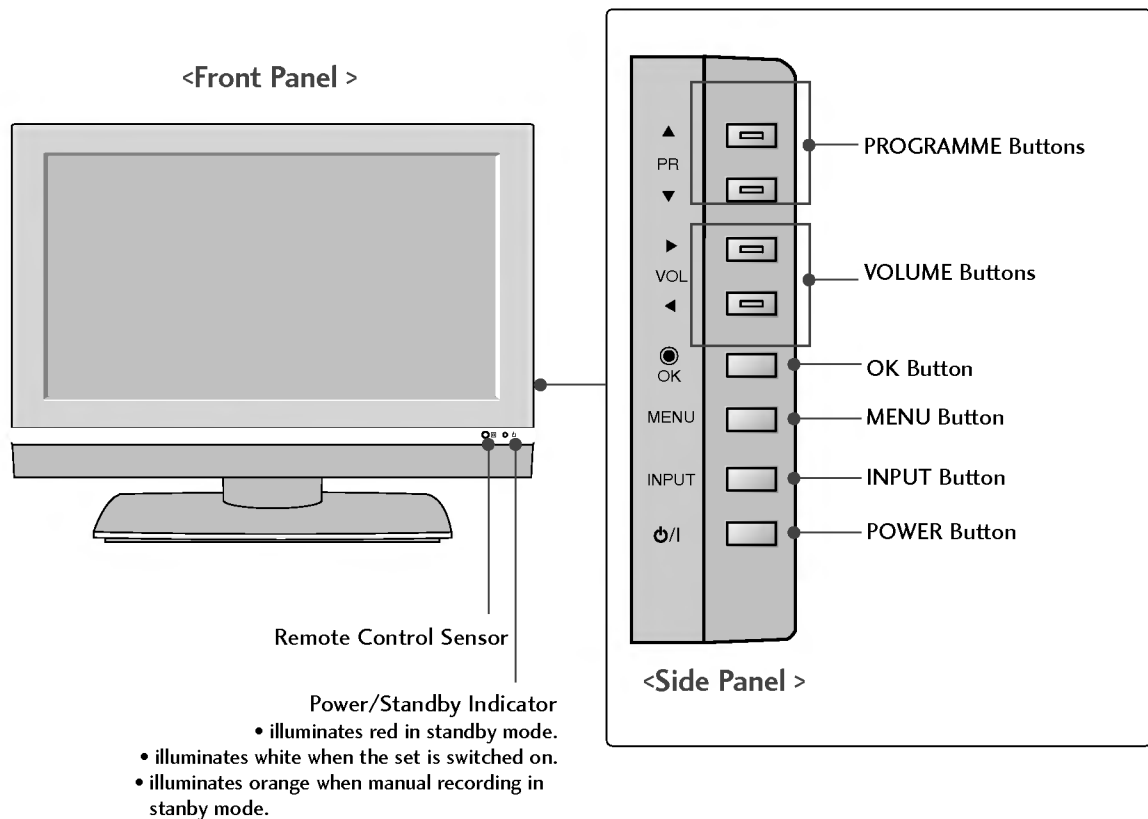
- ① **HDMI/DVI Input**
Connect a HDMI signal to HDMI/DVI.
- ② **RGB/Audio Input**
Connect the monitor output from a PC/DTV to the appropriate input port.
- ③ **Component Input**
Connect a component video/audio device to these jacks.
- ④ **Power Cord Socket**
This set operates on an AC power. The voltage is indicated on the Specifications page. Never attempt to operate the set on DC power.
- ⑤ **Euro Scart Socket (AV1/AV2)**
Connect scart socket input or output from an external device to these jacks.
- ⑥ **Antenna Input**
- ⑦ **RS-232C Input (CONTROL & SERVICE) Port**
Connect the serial port of the control devices to the RS-232C jack.
- ⑧ **Remote Control Port**
- ⑨ **S-Video Input**
Connect S-Video out from an S-VIDEO device.
- ⑩ **Audio/Video Input**
Connect audio/video output from an external device to these jacks.
- ⑪ **Variable Audio Output**
Connect an external amplifier or add a subwoofer to your surround sound system.

INTRODUCTION

CONTROLS

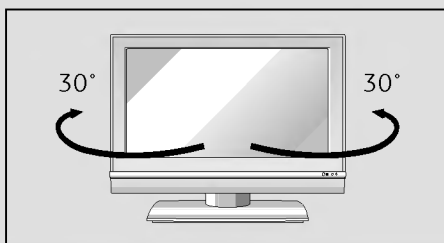
This is the front panel of models **37LC2RR***, **42LC2RR*** sets.

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



Swivel Stand (42LC2RR * only)

- This feature is not available for all models.

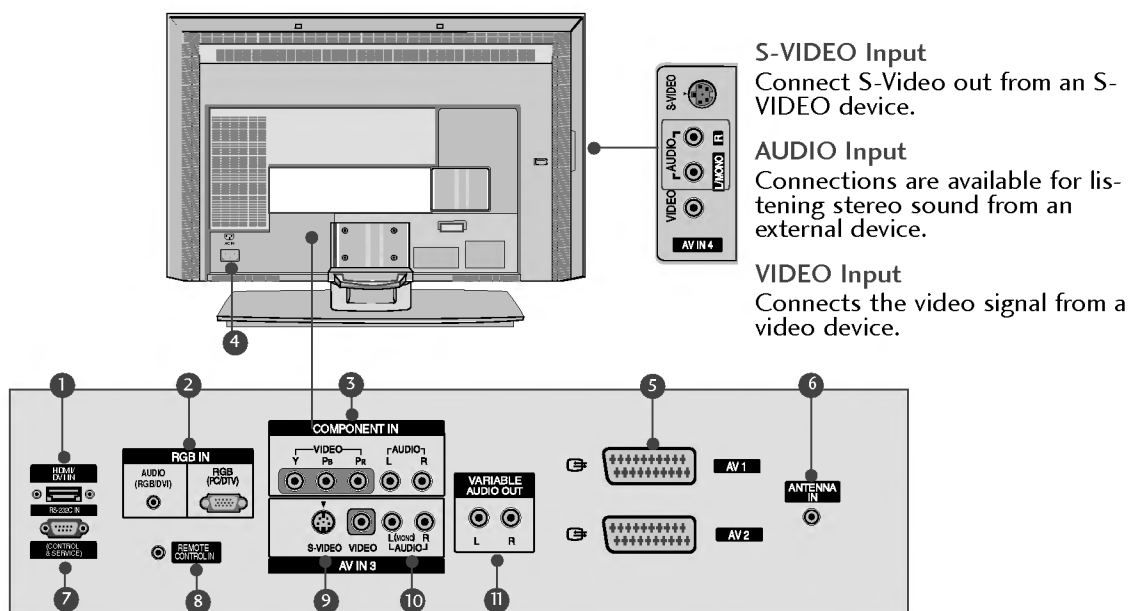


- The set can be conveniently swivelled on its stand 30° to the left or right to provide the optimum viewing angle.

CONNECTION OPTION

This is the back panel of models **37LC2RR***, **42LC2RR*** sets.

Back Connection Panel



1 HDMI/DVI Input

Connect a HDMI signal to HDMI/DVI.

2 RGB/Audio Input

Connect the monitor output from a PC/DTV to the appropriate input port.

3 Component Input

Connect a component video/audio device to these jacks.

4 Power Cord Socket

This set operates on an AC power. The voltage is indicated on the Specifications page. Never attempt to operate the set on DC power.

5 Euro Scart Socket (AV1/AV2)

Connect scart socket input or output from an external device to these jacks.

6 Antenna Input

7 RS-232C Input (CONTROL & SERVICE) Port

Connect the serial port of the control devices to the RS-232C jack.

8 Remote Control Port

9 S-Video Input

Connect S-Video out from an S-VIDEO device.

10 Audio/Video Input

Connect audio/video output from an external device to these jacks.

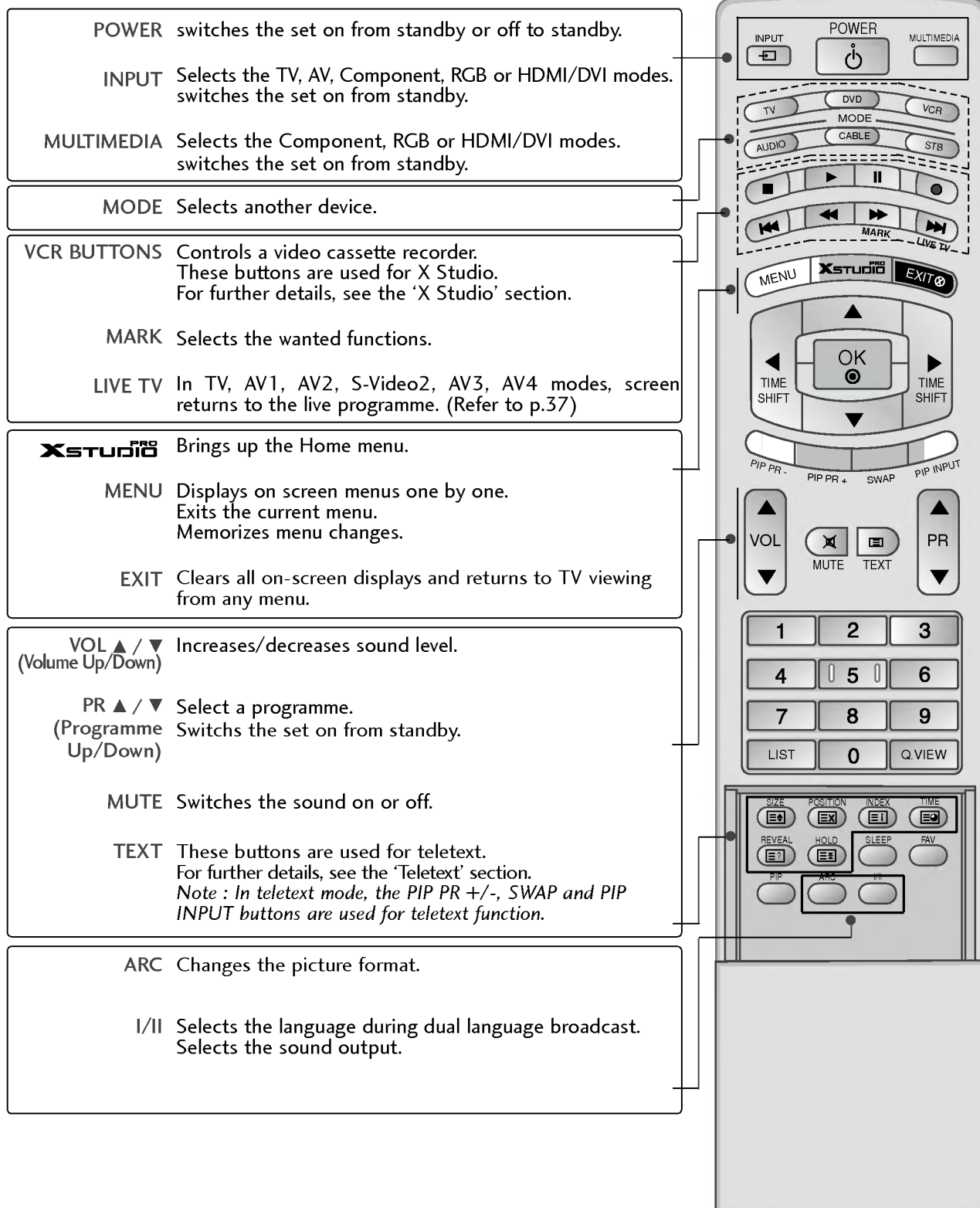
11 Variable Audio Output

Connect an external amplifier or add a subwoofer to your surround sound system.

INTRODUCTION

REMOTE CONTROL KEY FUNCTIONS

When using the remote control, aim it at the remote control sensor on the set.
There may be a defect in consecutive operation of remote control in a specified brightness according to this set.

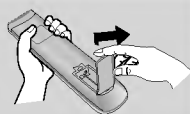


REMOTE CONTROL KEY FUNCTIONS

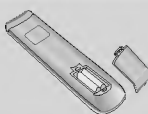
<p>OK accepts your selection or displays the current mode.</p> <p>▲ / ▼ or ◀ / ▶ Adjusts menu settings. (TIME SHIFT) Selects menu item.</p>	
<p>PIP Switches the sub picture on or off. Selects PIP, POP or DW modes.</p> <p>PIP PR +/- Selects a programme for the sub picture.</p> <p>SWAP Alternates between main and sub picture.</p> <p>PIP INPUT Selects the input mode for the sub picture.</p> <p>SIZE Adjusts the sub picture size.</p> <p>POSITION Moves the sub picture to ▲ / ▼ or ◀ / ▶ direction.</p>	
<p>NUMBER buttons Selects a programme. Selects numbered items in a menu. Switchs the set on from standby.</p> <p>LIST Displays the programme table.</p> <p>Q.VIEW Returns to the previously viewed programme.</p>	
<p>SLEEP Sets the sleep timer.</p> <p>FAV Selects a favourite programme.</p>	

Installing Batteries

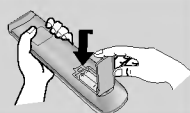
- ① Open the battery compartment cover on the back side.



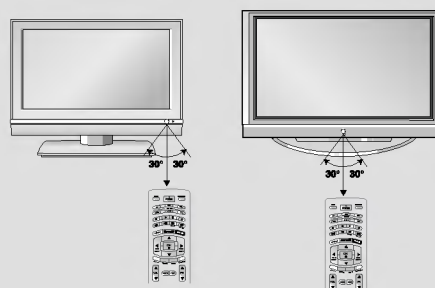
- ② Insert two batteries in correct polarity (+ with +, - with -). Don't mix old or used batteries with new ones.



- ③ Close the cover.



Remote control effective range



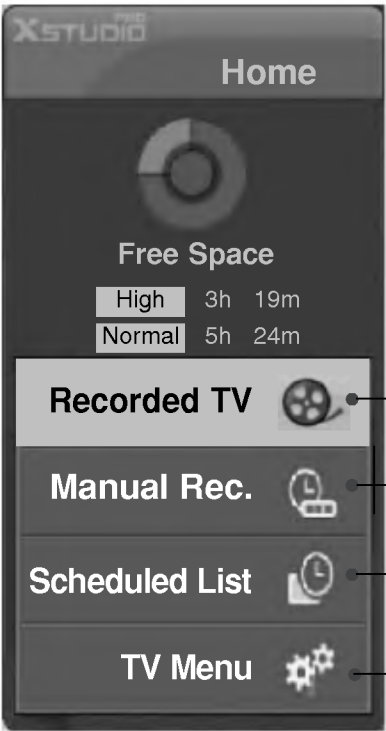
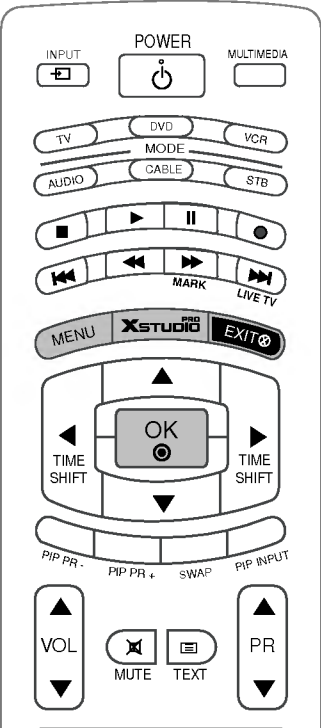
- Use a remote control 7 meter distance and 30 degree (left/right) within the receiving unit scope.
- Dispose of used batteries in a recyclebin to preserve environment.

INTRODUCTION

HOME MENU

This menu is a contents guide.

In Home Menu, you enter the Recorded list of DVR, Manual Rec, Scheduled List or TV Menu.



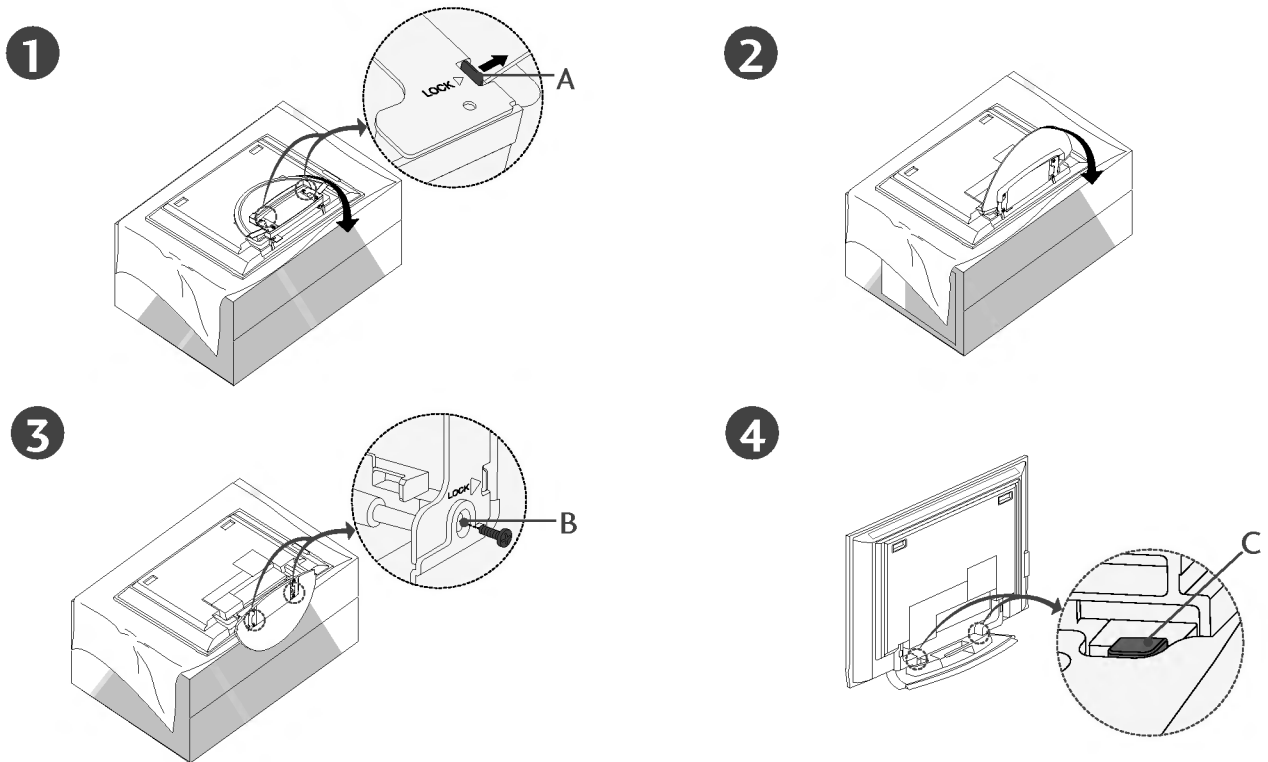
DVR
► p.29

TV Menu
► p.47

INSTALLATION

UNFOLDING THE BASE STAND (42PC1RR*)

- 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.

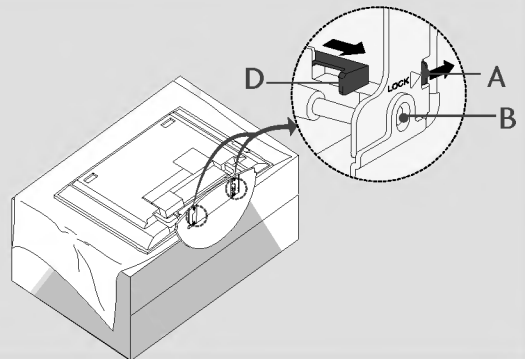
! NOTE

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.



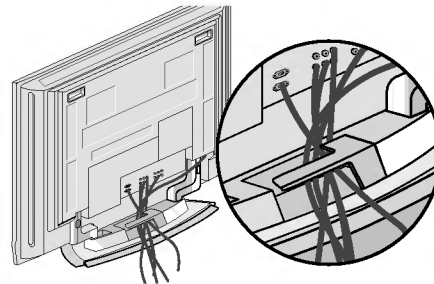
INSTALLATION

BASIC CONNECTION (42PC1RR *, 50PC1RR *)

- These models have two cable arrangement methods according to the stand type.

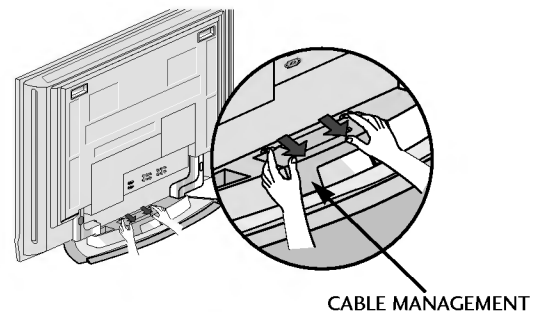
Stand type 1

Arrange the cables as shown picture.

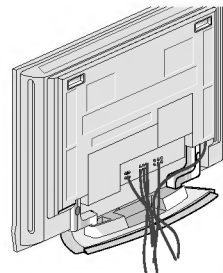


Stand type 2

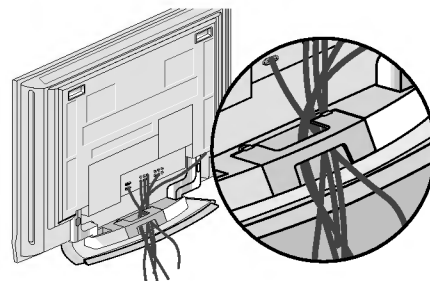
- 1 Hold the **CABLE MANAGEMENT** with both hands and push it as shown.



- 2 Connect the cables as necessary.
To connect an additional equipment, see the **External equipment Connections** section.

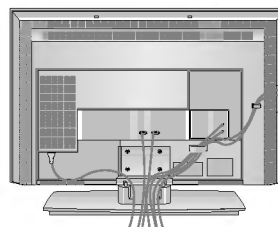


- 3 Reinstall the **CABLE MANAGEMENT** as shown.

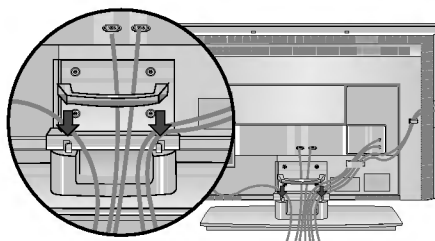


BASIC CONNECTION (37LC2RR*, 42LC2RR*)

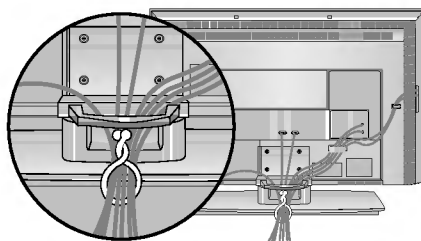
- 1 Connect the cables as necessary.
After connecting the cables neatly, arrange the cables to the Cable Holder.
- To connect an additional equipment, see the **CONNECTIONS & SETUP** section.



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

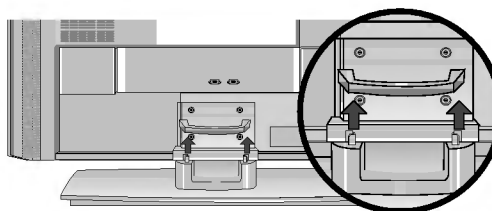


- 3 Bundle the cables using the supplied twister holder.



HOW TO REMOVE THE CABLE MANAGEMENT

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



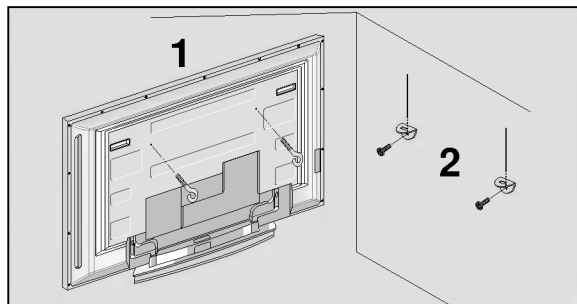
! NOTE

- 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.

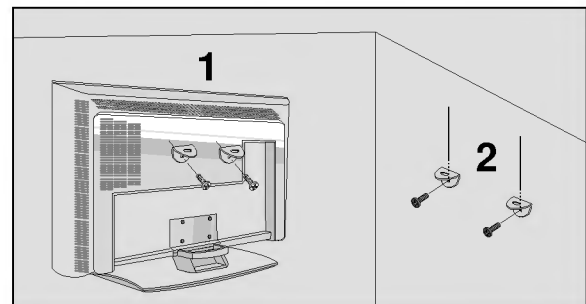
INSTALLATION

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

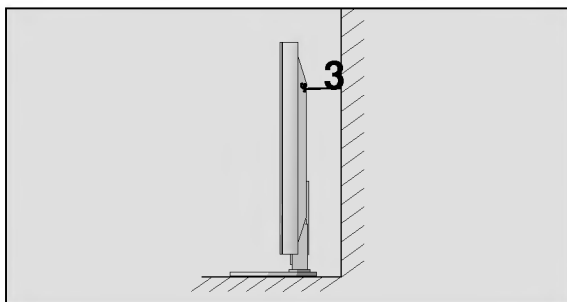
- Set it up close to the wall so the set doesn't fall over when it is pushed backwards.
- The instructions shown below is a safer way to set up the set, which is to fix it on the wall so the set doesn't fall over when it is pulled in the forward direction. It will prevent the set from falling forward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



or



- 1 Use the eye-bolts or set brackets/bolts to fix the set to the wall as shown in the picture.
(If your set has the bolts in the eye-bolts position before inserting the eye-bolts, loosen the bolts.)
* Insert the eye-bolts or set brackets/bolts and tighten them securely in the upper holes.
- 2 Secure the wall brackets with the bolts (not provided as parts of the set, must purchase separately) on the wall. Match the height of the bracket that is mounted on the wall.



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

! NOTE

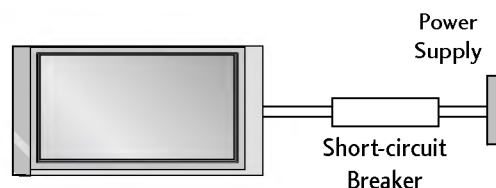
- ▶ When moving the set to another place undo the ropes first.
- ▶ Use a set holder or a cabinet that is big and strong enough for the size and weight of the set.
- ▶ To use the set safely make sure that the height of the bracket that is mounted on the wall is same as that of the set.

STAND INSTALLATION

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

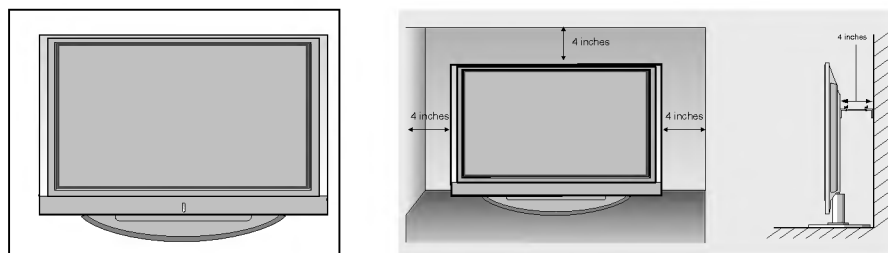
GROUNDING

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, lightening rods, or gas pipes.



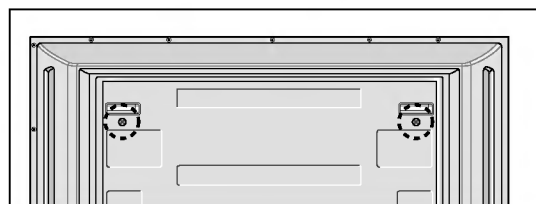
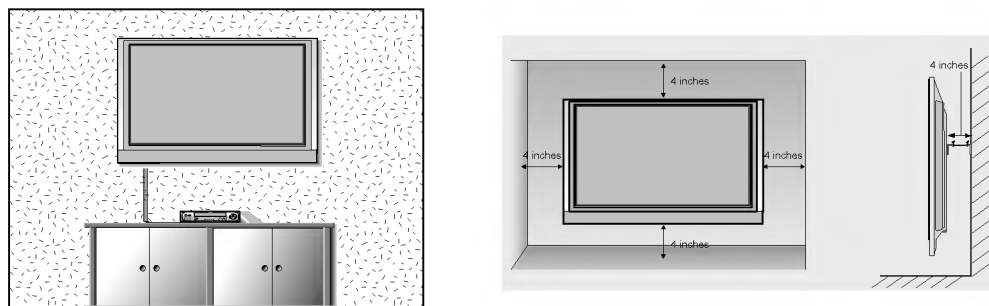
Desktop Pedestal Installation

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 42PC1RR>

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

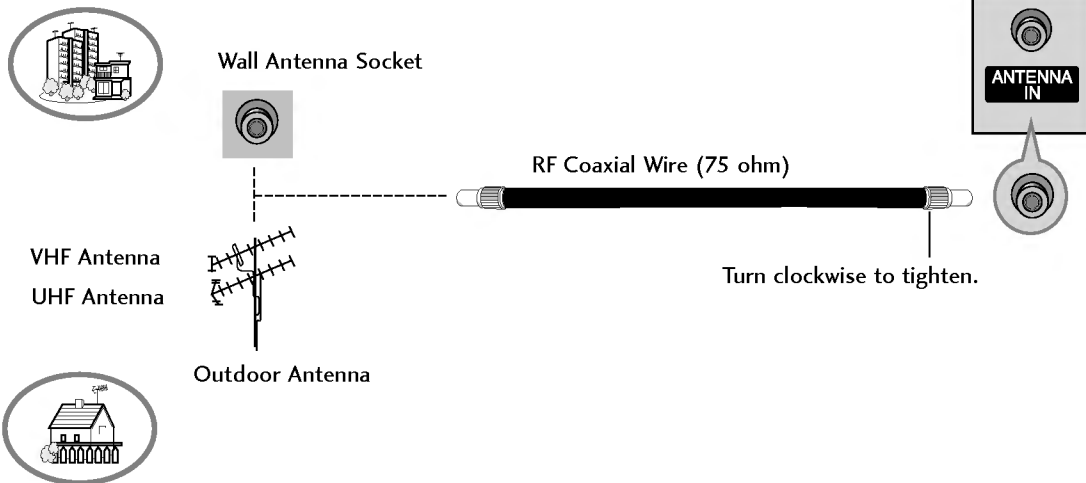
CONNECTIONS & SETUP

- To prevent the equipment damage, never plug in any power cords until you have finished connecting all equipment.
- This part of CONNECTION & SETUP mainly use pictures for the 42PC1RR*, 50PC1RR*.

ANTENNA CONNECTION

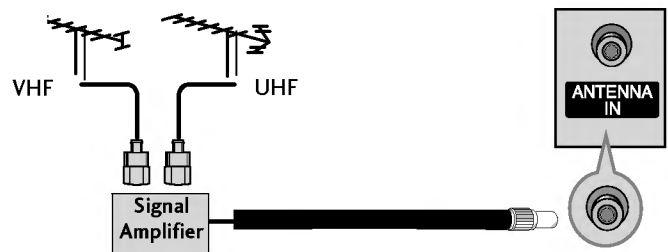
- For optimum picture quality, adjust antenna direction.
- An antenna cable and converter are not supplied.

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



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

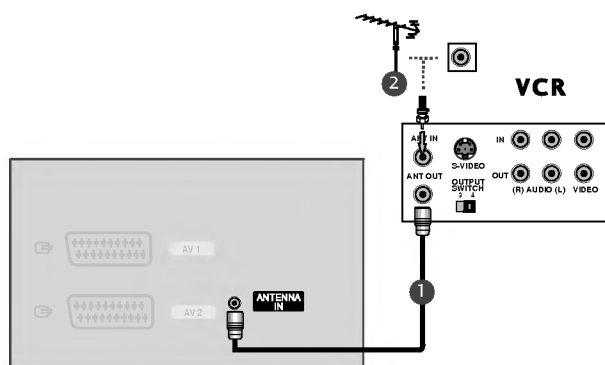
- In poor signal areas, to get better picture quality, install a signal amplifier to the antenna as shown to the right.
- If signal needs to be split for two TVs, use an antenna signal splitter for connection.



VCR SETUP

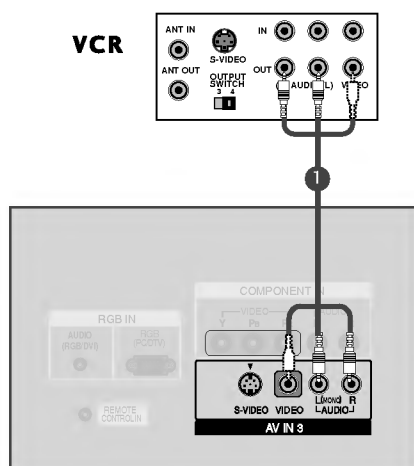
- To avoid picture noise (interference), leave an adequate distance between the VCR and TV.
- Typically a frozen still picture from a VCR. If the 4:3 picture format is used; the fixed images on the sides of the screen may remain visible on the screen.

When connecting with an antenna



- 1 Connect the **ANT OUT** of the VCR to the **ANTENNA IN** socket on the set.
- 2 Connect the antenna cable to the **ANT IN** antenna socket of the VCR.
- 3 Press the **PLAY** button on the VCR and match the appropriate programme 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 **AV3** input source using the **INPUT** button on the remote control.
- If connected to **AV IN4**, select **AV4** input source.

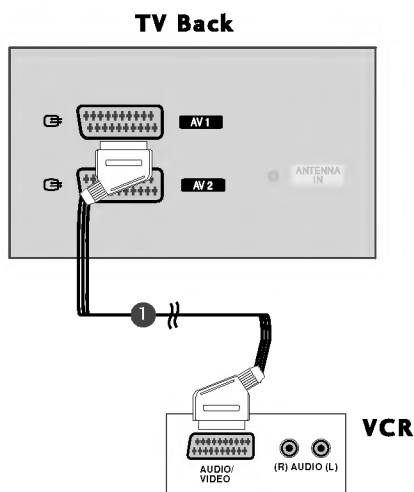
! NOTE

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

CONNECTIONS & SETUP

VCR SETUP

When connecting with a Euro Scart

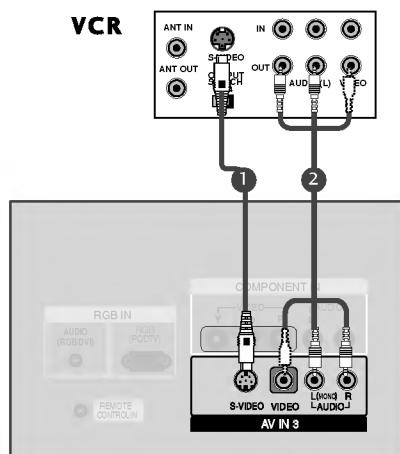


- 1 Connect the Euro scart socket of the VCR to the **AV1** Euro scart socket on the set.
- 2 Insert a video tape into the VCR and press **PLAY** on the VCR. (Refer to the VCR owner's manual.)
- 3 Select **AV1** input source with using the **INPUT** button on the remote control.
- If connected to **AV2** Euro scart socket, select **AV2** input source.

! NOTE

- If the S-VIDEO(Y/C) signal is received through the Euro scart socket 2 (AV2), you must change to the S-Video2 mode.
- If you want to use the EURO scart cable, you have to use the signal shielded Euro scart cable.

When connecting with an S-Video cable

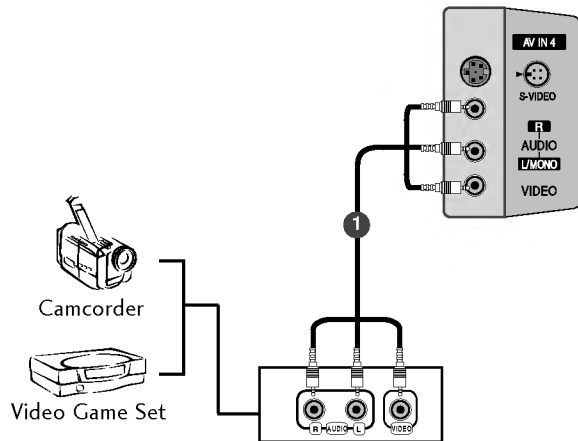


- 1 Connect the S-VIDEO output of the VCR to the **S-VIDEO** input on the set. The picture quality is improved; compared to normal composite (RCA cable) input.
- 2 Connect the audio outputs of the VCR to the **AUDIO** input jacks on the set.
- 3 Insert a video tape into the VCR and press **PLAY** on the VCR. (Refer to the VCR owner's manual.)
- 4 Select **AV3** 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

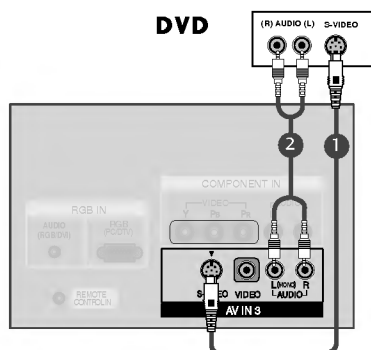


- 1 Connect the **AUDIO/VIDEO** jacks between TV and external equipment. Match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red).
- 2 Select **AV4** input source with using the **INPUT** button on the remote control.
- If connected to **AV IN3** input, select **AV3** input source.
- 3 Operate the corresponding external equipment. Refer to external equipment operating guide.

CONNECTIONS & SETUP

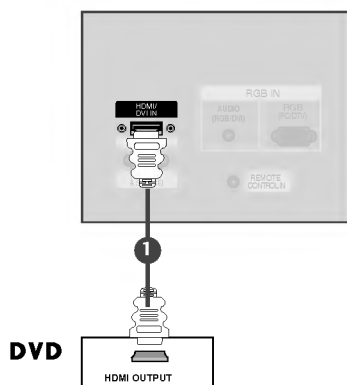
DVD SETUP

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 **AV3** input source with using the **INPUT** button on the remote control.
- 5 Refer to the DVD player's manual for operating instructions.

When connecting with a HDMI cable



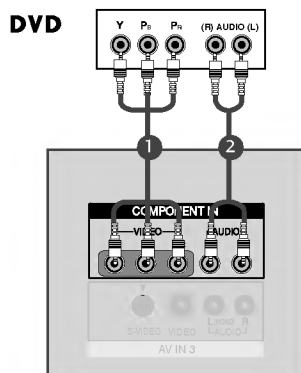
- 1 Connect the HDMI output of the DVD to the **HDMI/DVI IN** jack on the set.
- 2 Select **HDMI/DVI** input source with using the **INPUT** button on the remote control.
- 3 Refer to the DVD player's manual for operating instructions.

! NOTE

- ▶ Set 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.

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 **Component** input source with using the **INPUT** button on the remote control.
- 5 Refer to the DVD player's manual for operating instructions.

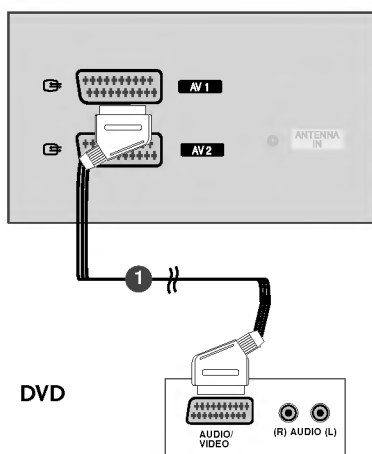
! NOTE

► Component Input ports

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

Component ports on the SET	Y	P _B	P _R
Video output ports on DVD player	Y	P _b	P _r
	Y	B-Y	R-Y
	Y	C _b	C _r
	Y	P _B	P _R

When connecting with a Euro Scart



- 1 Connect the Euro scart socket of the DVD to the **AV1** Euro scart socket on the set.
- 2 Turn on the DVD player, insert a DVD.
- 3 Select **AV1** input source with using the **INPUT** button on the remote control.
- If connected to **AV2** Euro scart socket, select **AV2** input source.

! NOTE

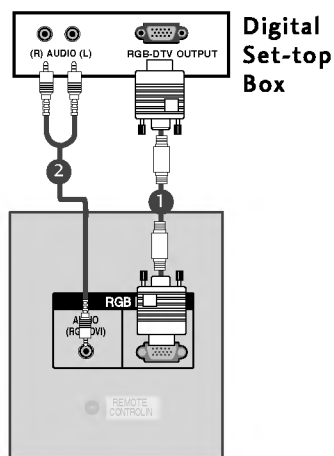
► Please use the shield scart cable.

CONNECTIONS & SETUP

STB(SET-TOP BOX) SETUP

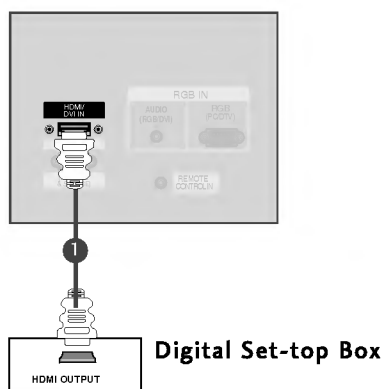
- This set can receive Digital Over-the-air/Cable signals without an external digital set-top box. However, if you do receive Digital signals from a digital set-top box or other digital external device, refer to the figure as shown below.

When connecting 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 (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** input source with using the **INPUT** button on the remote control.

When connecting with a HDMI cable



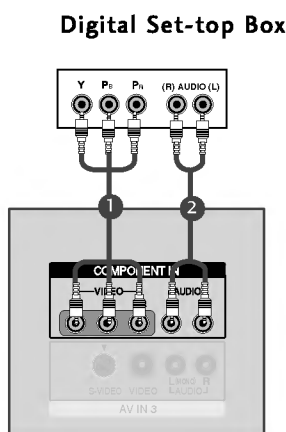
- 1 Connect the HDMI output of the digital set-top box to the **HDMI/DVI IN** jack on the set.
- 2 Select **HDMI/DVI** input source with using the **INPUT** button on the remote control.
- 3 Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)

NOTE

- ▶ Set 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.

STB(SET-TOP BOX) SETUP

When connecting with a component cable

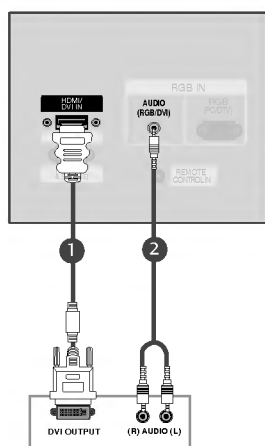


- 1 Connect the video outputs (Y, Pb, Pr) of the digital set-top box to the **COMPONENT IN VIDEO** jacks on the set.
- 2 Connect the audio output of the digital set-top box to the **COMPONENT IN AUDIO** jacks on the set.
- 3 Turn on the digital set-top box. (Refer to the owner's manual for the digital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

! NOTE

Signal	Component	RGB-DTV	HDMI-DTV
480i/576i	Yes	No	No
480p/576p/720p/1080i	Yes	Yes	Yes

When connecting with a HDMI to DVI cable



Digital Set-top Box

- 1 Connect the DVI output of the digital set-top box to the **HDMI/DVI IN** jack on the set.
- 2 Connect the audio outputs of the set-top box to the **AUDIO (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/DVI** input source with using the **INPUT** button on the remote control.

! NOTE

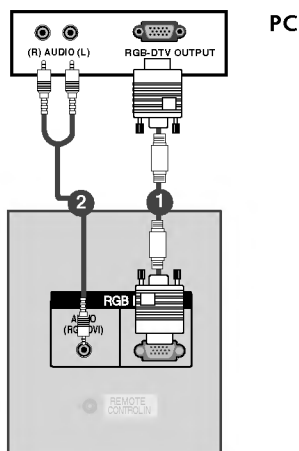
- ▶ If the digital set-top box has a DVI output and no HDMI output, a separated audio connection is necessary.
- ▶ If the digital set-top box supports Auto DVI function, the output resolution of the digital set-top box will be automatically set to 1280x720p.
- ▶ If the digital set-top box does not support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

PC SETUP

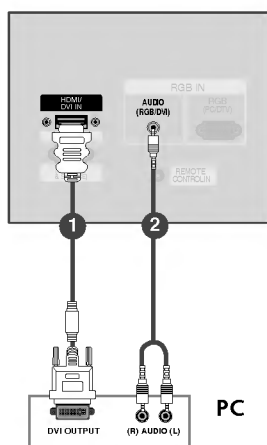
- This set provides Plug and Play capability, meaning that the PC adjusts automatically to the set's settings.

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 (RGB/DVI)** jack on the set.
- 3 Turn on the PC and the set.
- 4 Select **RGB** input source with using the **INPUT** button on the remote control.

When connecting with a HDMI to DVI cable



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

! NOTE

- ▶ If the PC has a DVI output and no HDMI output, a separated audio connection is necessary.
- ▶ If the PC does not support Auto DVI, you need to set the output resolution appropriately. To get the best picture quality, adjust the output resolution of PC graphics card's output resolution to 1024x768, 60Hz.

! NOTE

- ▶ To enjoy vivid picture and sound, connect a PC to the set.
- ▶ 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.
- ▶ Connect PC to the RGB (PC/DTV) or HDMI/DVI port of the set; change the resolution output of PC accordingly.
- ▶ There might be noise according to some resolution, vertical pattern, contrast or brightness in PC mode. Change the PC mode into another resolution or change the refresh rate into another 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.
- ▶ The synchronization input waveform for Horizontal and Vertical frequencies are separate.
- ▶ In 42PC1RR/50PC1RR models, we recommend using 1024x768, 60Hz for the PC mode, they provide the best picture quality.
- ▶ In 37LC2RR/42LC2RR models, we recommend using 1360x768, 60Hz for the PC mode, they provide the best picture quality.
- ▶ If the resolution of PC is over UXGA, there will be no picture on the set.
- ▶ Connect the signal cable from the monitor output port of the PC to the RGB (PC/DTV) port of the set or the signal cable from the HDMI output port of the PC to the HDMI/DVI port on the set.
- ▶ Connect the audio cable from the PC to the Audio input on the set. (Audio cables are not included with the set).
- ▶ If using a sound card, adjust PC sound as required.
- ▶ This set uses a VESA Plug and Play Solution. The set provides EDID data to the PC system with a DDC protocol. The PC adjusts automatically when using this set.
- ▶ DDC protocol is preset for RGB (Analog RGB), HDMI (Digital RGB) mode.
- ▶ If required, adjust the settings for Plug and Play functionally.
- ▶ If graphic card on the PC does not output analog and digital RGB simultaneously, connect only one of either RGB (PC/DTV) or HDMI/DVI to display the PC on the set.
- ▶ If graphic card on the PC does output analog and digital RGB simultaneously, set the set to either RGB or HDMI; (the other mode is set to Plug and Play automatically by the set.)
- ▶ DOS mode may not work depending on video card if you use a HDMI to DVI cable.
- ▶ 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.

CONNECTIONS & SETUP

Supported Display Resolution (RGB / HDMI mode)
(37LC2RR *, 42LC2RR *)

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
720x400	31.468	70.8
640x480	31.469 59.94	37.684 75.00
800x600	37.879 60.31	46.875 75.00
832x624	49.725	74.55
1024x768	48.363 60.123 70.00	56.47 60.00 75.029
1280x768	47.776	59.870
1360x768	47.720	59.799
1366x768	47.720	59.799

Supported Display Resolution (RGB / HDMI mode)
(42PC1RR *, 50PC1RR *)

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
640x350	31.468 37.861	70.09 85.08
720x400	31.469 37.927	70.08 85.03
640x480	31.469 35.000 37.861 37.500 43.269	59.94 66.66 72.80 75.00 85.00
848x480	31.500 37.799 39.375	60.00 70.00 75.00
852x480	31.500 37.799 39.375	60.00 70.00 75.00
800x600	35.156 37.879 48.077 46.875 53.674	56.25 60.31 72.18 75.00 85.06
832x624	49.725	74.55
1024x768	48.363 56.476 60.023 68.677	60.00 70.06 75.02 85.00
1360x768	47.700	60.00
1366x768	47.700	60.00
1152x864	54.348 63.995	60.05 70.01
1280x768	47.776	59.87

BASIC OPERATION

TURNING THE SET ON

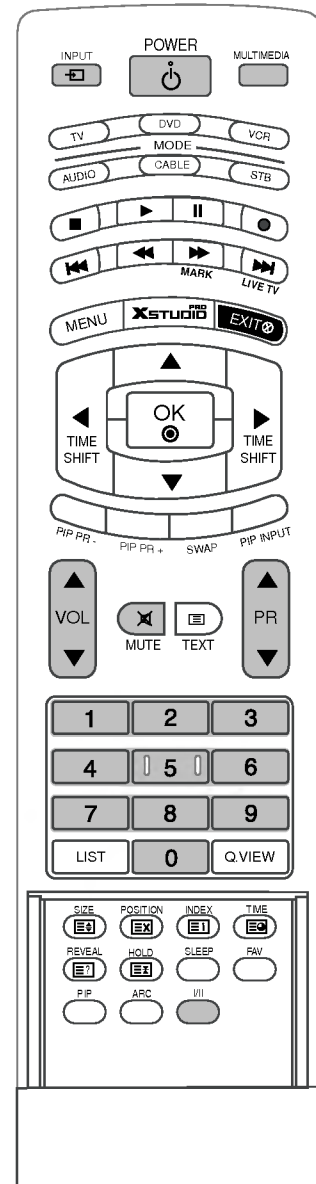
If your set will be turned on, you will be able to use its features.

Turning the set on

- 1 First, connect power cord correctly.
At this moment, the set switches to standby mode.
 - In standby mode to turn set on, press the **⏻/I**, **INPUT**, **PR ▲ / ▼** button on the set or press the **POWER**, **INPUT**, **MULTIMEDIA**, **PR ▲ / ▼**, **NUMBER** button on the remote control and then the set 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 **I/II** button.



BASIC OPERATION

TURNING THE SET ON

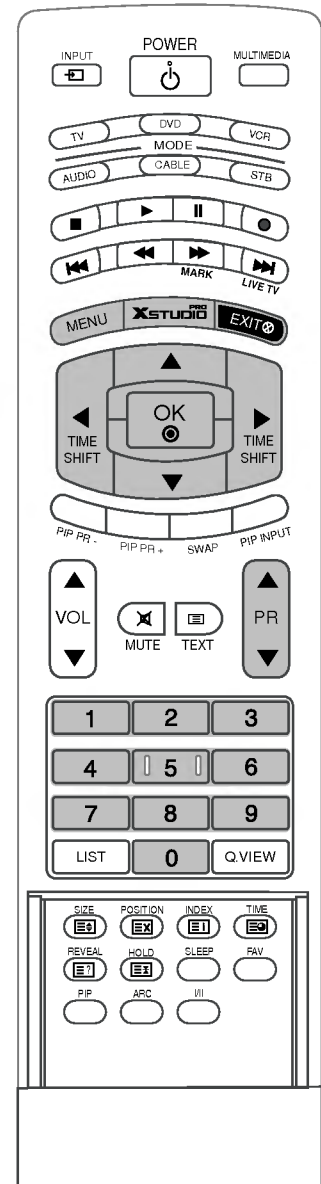
Programme selection

- 1 Press the **PR** ▲ / ▼ or **NUMBER** button to select a programme number.

On-Screen Menu Language Selection (option)

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

- 1 Press the **MENU** button and then use ▲ / ▼ button to select the **SPECIAL** menu.
- 2 Press the ► button and then use ▲ / ▼ button to select **Language**.
- 3 Press the ► button and then use ▲ / ▼ button to select your desired language. From this point on, the on-screen menus will be shown in the language of your choice.
- 4 Press the **EXIT** button to return to normal TV viewing.



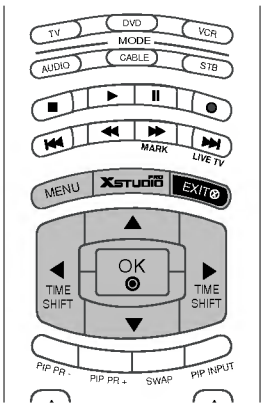
! NOTE

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

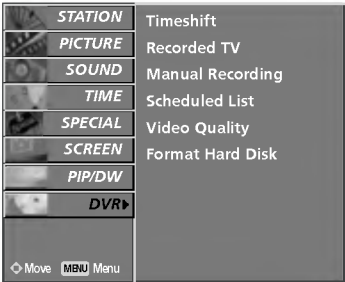
SPECIAL FUNCTIONS | DVR (Digital Video Recorder)

TIMESHIFT

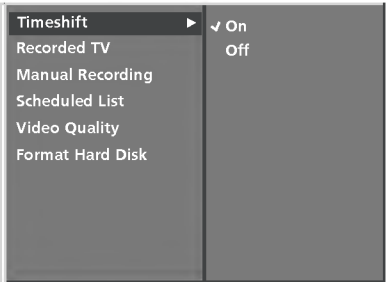
- This function allows the unit to automatically record live TV and make it available for reviewing at any time.
- With Timeshift turned on, you may pause and rewind normal TV viewing at any time without missing any of the live broadcast.



- 1 Press the **MENU** button and then use ▲ / ▼ button to select the **DVR** menu.
- 2 Press the ► button and then use ▲ / ▼ button to select the **Timeshift**.
- 3 Press the ► button and then use ▲ / ▼ button to select **On** or **Off**.
- 4 Press the **EXIT** button to return to normal TV viewing.



1



2 3

PROGRESSING THE TIMESHIFT FUNCTION



- 1 After selecting the **Timeshift On**, press the **OK** button.
 - As soon as Timeshift starts, a progress bar indicating the current recording status is displayed in the bottom of the screen.
 - Press the **EXIT** button to hide the 'Progress Bar' or press the **OK** button to display the 'Progress Bar'.
 - This function is preserved even change a programme on progressing the Timeshift.

The 'Progress Bar'?

This function indicates a possible DVR reshowing section ,a current on-screen and real on-broad-casting position, a section of section-recording.

- 1 Status of current displayed video.
- 2 Current save time.
- 3 15 minute intervals from Timeshift start time.
(Total - one hour).
- 4 Indicates current Timeshift position.

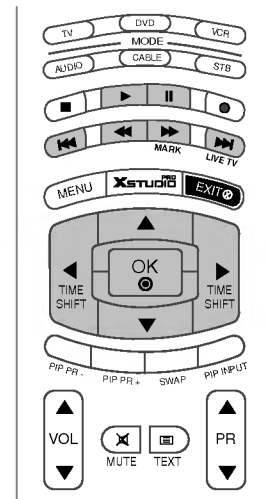
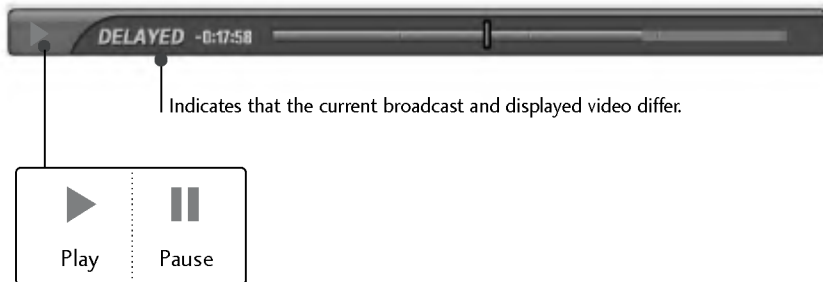
- 2 When finishing the Timeshift function, enter the option menu and turn **Timeshift Off**.

! NOTE

- ▶ DVR (Digital Video Recorder) : A device which records and plays broadcast program contents onto a hard disk in set or SET TOP BOX.
- ▶ In order to save hard-disk space, nothing is saved when there is no signal.
- ▶ The total storage space of the hard-disk is 80 GB. 4 GB minimum is reserved for Timeshift.
- ▶ When turning power on, it may take up to maximum 3 minutes to initialize the HDD.
- ▶ The Recording function will not initiate for a copy-protected program.
- ▶ Because an analog broadcast is transferred to a digital signal, video that contains rapid movement may show "cross stripes". This happens when the analog signal is compressed and then restored in the digital signal. The unit will attempt to reduce this excessive picture noise.
- ▶ When using the PIP/DW, POP mode, Timeshift is stopped.
- ▶ Timeshift is available in TV, AV1, AV2, S-Video2, AV3, AV4 mode.
- ▶ Timeshift is not available for Audio only channels.

Progressing the Timeshift function, play

- On progressing Timeshift, it can do a diversified playing.



Using the remote control

You can shift playback to any point within playing the recorded program





MARK

When playing,

repeatedly, press the **REW**() button to speed up

->  -> .



repeatedly, press the **FF**() button to speed up


->  -> .


- Pressing these buttons repeatedly increases the fast forward/reverse speed.




Press the  or  button to move back and forth within the current program.





- Press the  button to jump at the front of the programme.
- Pressing the  button to jump at the end of the programme.

Press the  button to jump about 20 seconds forward.



- Pressing the  button to jump about 8 seconds backward.




During playback, press the **Pause**() button.

- Still screen is displayed.
- Repeatedly press the **Pause**() button to advance frame by frame.
- Press the **Pause**() button and then use the **FF**() button for slow motion (as showing the )




- When using the  or  button during playback the cursor can be viewed on the screen.



Press the **PLAY**() button to return to normal playback.



If you want to return to the current live broadcast, press the  button.



RECORDING


- Use this function to record the program you are watching on the main screen.


Instant Record


This function records the currently displayed programme.


- 1


Select the desired programme to record and then press the  button. During recording  is displayed. Use this feature to record up to 2 hours of programming.
- 2

If you want to stop recording, press the  button.


■ While recording, if you press the  button fewer than 10 seconds, this message is displayed.

 Recording is not completed.
Recording time must exceed 10 seconds.

■ If you press the  button more than 10 seconds, this message is displayed.

 Recording is completed.

- 3

You can add/subtract recording time by pressing the  button while recording. Press the ◀ or ▶ button repeatedly to add/subtract to the recording time. Each time you press ◀ or ▶ button the recording duration changes as shown below.

No Change

↗

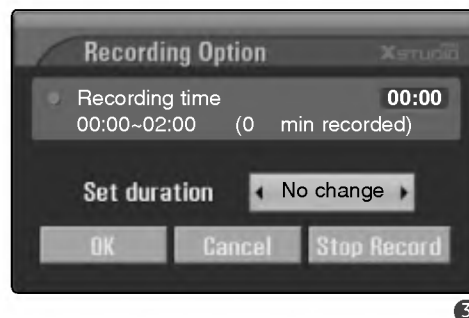
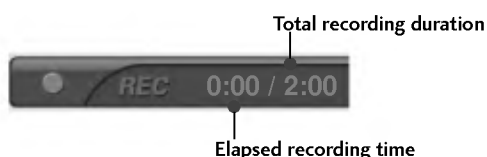
+10min → +20min → +30min → +40min → +50min → +60min

↘


-10min → -20min → -30min → -40min → -50min → -60min

The extra recording time added to existing setting equals the final recording time.

- 4 After adjusting the recording time, select **OK**. The Status bar will be displayed.

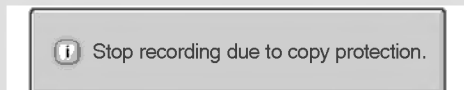


- Press the **EXIT** button to hide the Status bar. Press the **OK** button to display the Status bar.

- 5 Recording stops when the selected duration is reached or when you press the  button. Although recording has stopped, the Timeshift feature remains active.

NOTE

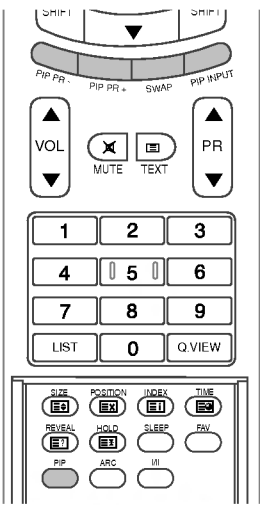
- When recording, if the available storage space becomes low, the recording will be automatically stopped.
- Recordings of less than 10 seconds will not be saved.
- To save disk space while recording broadcasts, no data will be saved if there is no signal.
- The recording function will not initiate for a copy-protected program.
- The displayed time slightly differ from the actual time.
- In no signal or film source, the displayed time slightly differ from the actual time.
- The recording can not be used with content-protected programs on progressing Timeshift .



- If the old tape is recorded, this may cause damage to the recording quality.
- It will be stored separately the programme according to the colour system signal.

WATCHING & RECORD

- While recording, you can change programmes or inputs without disturbing the recording. The broadcast being recorded can be shown in the lower-right corner of the main screen.



- 1
- After starting an Instant Record or Reserved Record, change the programme or input.
- You can check the show being recorded in the lower-right corner the main screen (as shown below).
 - Press the **PIP** button to hide or show the program being recorded.
 - Press the **SWAP** button to return to the program being recorded in Watching & Record.
 - When changed to the programme recorded in Watching & Record, the screen is changed to Instant Record state or Reserved Record state.



screen being recorded

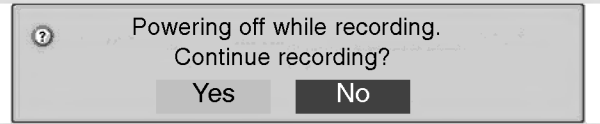
Record	Analog	AV1	AV2	S-Video2	AV3	AV4
Watching						
Analog	0	0	0	0	0	0
AV1	0	0	0	0	0	0
AV2	0	0	0	x	0	0
S-Video2	0	0	x	0	0	0
AV3	0	0	0	0	0	0
AV4	0	0	0	0	0	0
Component	0	0	0	0	0	0
RGB	0	0	0	0	0	0
HDMI/DVI	0	0	0	0	0	0

Watching & Record Input

CAUTION

- ▶

If you turn the power off on recording, this message is displayed as shown below.



- ▶

If you selects No, recording stops and then power is off.
- ▶

If you selects Yes, recording continues and the power is turned off.
- ▶

If you press the **EXIT** button to disappear this message.