

User's Guide Specification

담당

관리자

Song js
07.01.09

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07.01.09

1. Model Description

MODEL	32/37/42LC2D-AA 42/50/60PC1D-AA	BRAND	LG	Part No.	38289U0569A (0701-REV06)
SUFFIX	AUSTRALIA	Product Name	32/37/42LC2D, 42/50/60PC1D		

2. Printing Specification

1. Trim Size (Format) : 210mm x 280 mm
 2. Printing Colors
 - Cover : 3 COLORS (PMS207C, PMS431C, BLACK)
 - Inside : 2 COLOR (BLACK, PMS207U)
 3. Stock (Paper)
 - Cover : Coated paper , Snow White 150 g/㎡
 - Inside : Uncoated paper , 백상지 80 g/㎡
 4. Printing Method : Off set
 5. Bindery : Perfect bind
 6. Language : English (1)
 7. Number of pages : 104
- * 앞/뒷표지는 단면 유광 코팅

NOTES

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

3. Special Instructions

(1) Origin Notification

- * LGEDI : Printed in Indonesia
- * LGESP : Printed in Brazil
- * LGENT : Printed in China
- * LGEMA : Printed in Poland
- * LGEWA : Printed in U.K.
- * LGEMX : Printed in Mexico
- * LGEIL : Printed in India

4. Changes

9				
8				
7				
6	Jan./09/01	Song ju seok	S7-68122	Added Polishing cloth in the 60PC1D-AA model
5	Aug./23/06	Park sun young	S6-53267	1.Changed the EPG OSD 2.Added model 60PC1D-AA
4	June/27/06	Park sun young	S6-48217	1.Added the EPA logo 2.Applied the LP Test results of 42PC1DG-AA
3	June/14/06	Park sun young	S6-46928	Applied the LP Test results of 32LC2D-AA
2	Apr./18/06	Park sun young	S6-40549	1.Changed the RS-232C (#24.ISM method) 2.Added the model name (32LC2D-AA,42/50PC3D-AA)
1	Apr./03/06	Park sun young	S6-38977	Applied the LP Test results
REV. NO.	MM/DD/YY	SIGNATURE	CHANGE NO.	CHANGE CONTENTS

Pagination sheet

P/NO.38289U0569A
Total pages : 104 pages

Front cover

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P/NO.

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Rear cover

LG

LG Electronics Inc.

LCD TV | PLASMA TV | OWNER'S MANUAL

LG Electronics Inc.



LCD TV | PLASMA TV OWNER'S MANUAL

LCD TV MODELS	PLASMA TV MODELS
32LC2D	42PC1DG
37LC2D	42PC1DV
42LC2D	50PC1D
	60PC1D

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

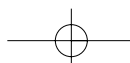
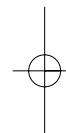
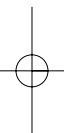
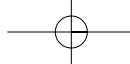
Please read this manual carefully before operating your set. Retain it for future reference. Record model number and serial number of the set. See the label attached on the back cover and quote this information to your dealer when you require service.



DVB is a registered trademark of the DVB Project



P/NO : 38289U0569A (0701-REV06)
Printed in Korea





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



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HDMI™, the HDMI logo and High-Definition Multimedia Interface is a trademark or registered trademark of HDMI Licensing."



LG's own special digital image generator. It consists of full digital image processor, APM mode & 6 different main picture quality factors.

CONTENTS

CONTENTS

INTRODUCTION

Accessories	5
Controls / Connection Options (42PC1D*, 50PC1D*, 60PC1D*)	6-7
Controls / Connection Options (32/37/42LC2D*)	8-9
Remote Control Key Functions	10-11

INSTALLATION

Stand Installation	12-13
Wire Arrangement	14-15
Attaching the TV to a wall	16
Desktop Pedestal Installation	17
Swivel Stand	17

CONNECTIONS & SETUP

Antenna Connection	18
Antenna Loop Through Socket	19
HDSTB Setup	20-22
VCR Setup	23-24
AV Out Setup	25
Digital Audio Output	26
External A/V Source Setup	27
DVD Setup	28-29
PC Setup	30-33

BASIC OPERATION

Turning the TV On	34
Initializing setup	34
Volume Adjustment	35
Programme Selection	35

SPECIAL FUNCTIONS

PIP/POP/Twin Picture

- Watching PIP/POP/Twin Picture	36
- Selecting an Input Signal Source for PIP/Twin Picture	37
- TV Program Selection for PIP	37
- Moving the PIP sub picture	37
- Swapping PIP/Twin Picture	38
- Adjusting Main and Sub Picture Sizes for Twin Picture	38
- POP(Picture-out-of-Picture: Programme Scan)	39

TELETEXT

Switch On/Off	40
Simple Text	40
Top Text	40
Fastext	41
Special Teletext	41

EPG (Electronic Programme Guide)

- Switch on/off EPG	42
- Select a programme	42

TV MENU

On Screen Menus Selection and Adjustment 43

Setup(Programme)

Auto Programme Tuning 44
 Manual Programme Tuning 45-46
 Fine tuning (In Analogue mode only) 47
 Assigning a station name (In Analogue mode only) 48
 Programme Edit 49-50
 Calling up the Programme Table 51
 Digital signal strength (In Digital mode only) 52
 Booster (In Digital mode only) 53

Video Adjustment

Picture Status Memory (PSM) 54
 Adaptive Picture Mode (APM) 55
 Brightness Adjustment 55
 Manual Picture Control (PSM-User Option) 56
 XD 57
 Colour Temperature Control 58-59
 - Auto Colour Temperature Control 58
 - Manual Colour Temperature Control 59
 Advanced 60-61
 - Cinema 60
 - Black Level 61
 Video Preset 62

Audio Adjustment

Sound Status Memory (SSM) 63
 Manual Sound Control (SSM-User Option) 64-65
 Auto Volume Leveller (AVL) 66
 Balance 67
 TV Speakers On/Off Setup 68
 Stereo Reception (In Analogue mode only) 69
 Sound output selection 69

Time Setting

Auto Clock Setup 70
 Manual Clock Setup 71
 On/Off Time Setup 72
 Sleep Timer 73
 Auto Sleep 74

Optional Features

Main Picture Source Selection 75
 Subtitle (In Digital mode only) 76
 Child Lock 77
 Picture Format 78
 XD Demo 79
 ISM (Image Sticking Minimization) Method (42PC1D*, 50PC1D*, 60PC1D* only) 80
 Low Power (42PC1D*, 50PC1D*, 60PC1D* only) .. 81

Lock Adjustment

Setting Up Your password 82
 Lock System 82
 Set Password 83
 Block Programme 84
 Parental Guidance (In Digital mode only) 85
 Aux. Block 85

APPENDIX

External Control Device Setup 86-92
 IR Codes 93-94
 Programming the Remote Control 95
 Programming Codes 96-97
 Troubleshooting Checklist 98-99
 Product Specifications 100

INTRODUCTION

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.

Cooling Fan Noise- This feature is not available for all models.

In the same way that a fan is used in a PC computer to keep the CPU (Central Processing Unit) cool, the Plasma TV is equipped with cooling fans to cool the Monitor and improve its reliability. Therefore, a certain level of noise could occur while the fans are operating and cooling the Plasma TV.

The fan noise doesn't have any negative effect on the Plasma TV's efficiency or reliability. The noise from these fans is normal during the operation of this product. We hope you understand that a certain level of noise from the cooling fans is acceptable and is not sufficient cause for the Plasma TV to be exchanged or returned.

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.

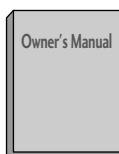
Avoid touching the LCD screen or holding your finger(s) against it for long periods of time. Doing so may produce some temporary distortion effects on the screen.

On Disposal

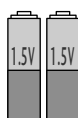
- The fluorescent lamp used in this product contains a small amount of mercury.
- Do not dispose of this product with general household waste.
- Disposal of this product must be carried out in accordance to the regulations of your local authority.

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.



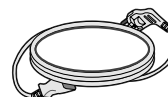
Owner's Manual



Batteries

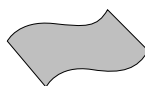


Remote Control



Power Cord

**37LC2D*/42LC2D*/
42PC1DG/50PC1D/60PC1D only**



Polishing Cloth
Polish the screen with the cloth.

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

* Do not wipe roughly when removing stain. Please be cautious of that excessive power may cause scratch or discoloration.

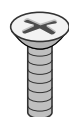
For 42PC1D*/50PC1D*



2-Wall brackets

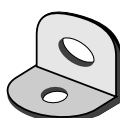


2-eye-bolts



**2- Bolts
(Refer to p.13)**

42PC1D* only



**2-TV Brackets,
2-Wall Brackets**



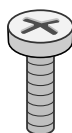
4-bolts



4-Ring Spacer

For 60PC1D*

For 32LC2D*/37LC2D*/42LC2D*



2-TV Bracket Bolts



**2-TV Brackets,
2-Wall Brackets**



**Cable Management
(Refer to p.15)**



Twister Holder
Arrange the wires
with the twister holder.



32LC2D* only
4-bolts for stand assembly
See below for detail information.
(Refer to p.12)

INTRODUCTION

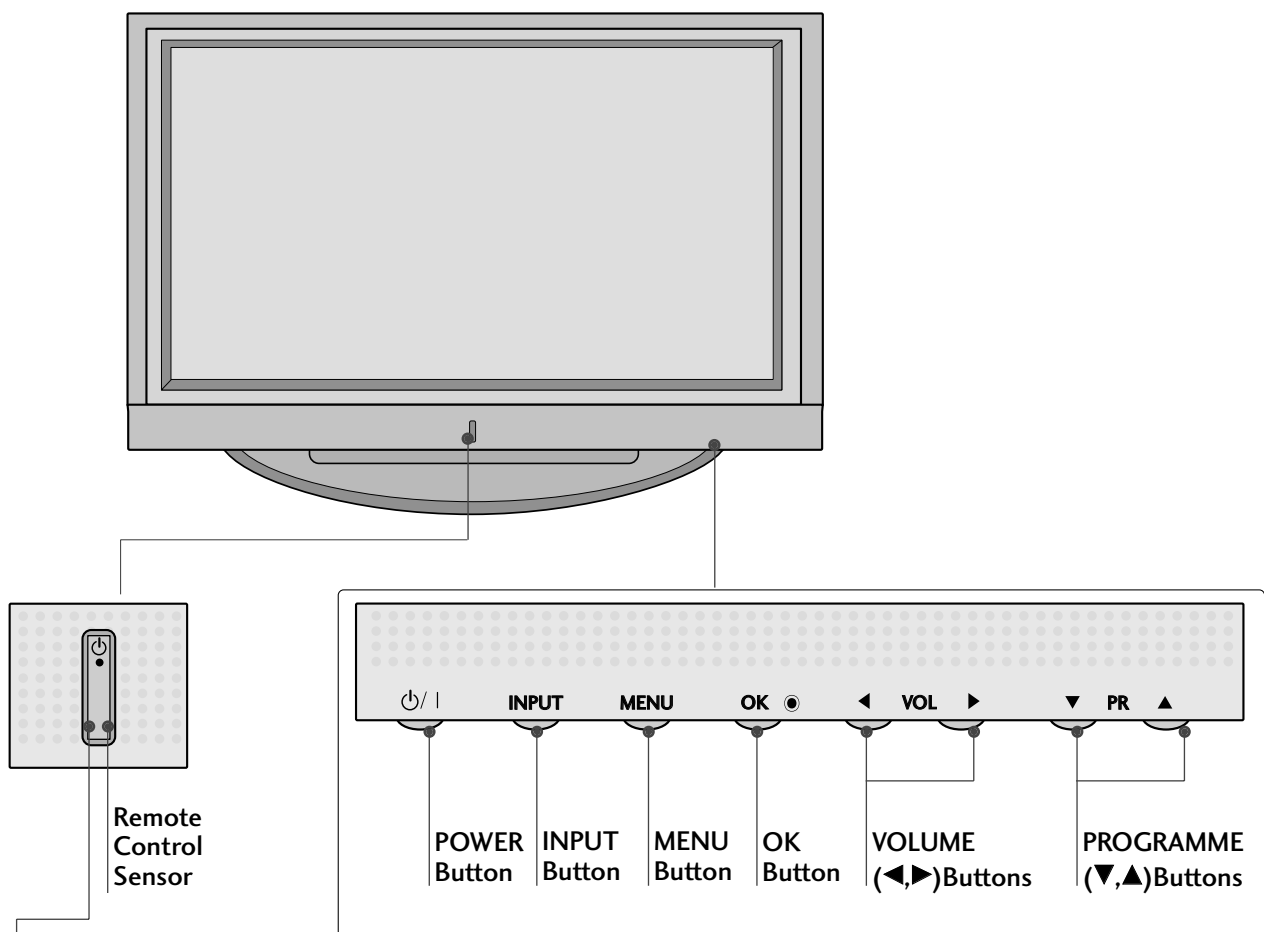
CONTROLS

- Here shown may be somewhat different from your TV.

Front Panel Controls

This is a representation of the front panel of model 42PC1D*, 50PC1D*, 60PC1D*.

INTRODUCTION



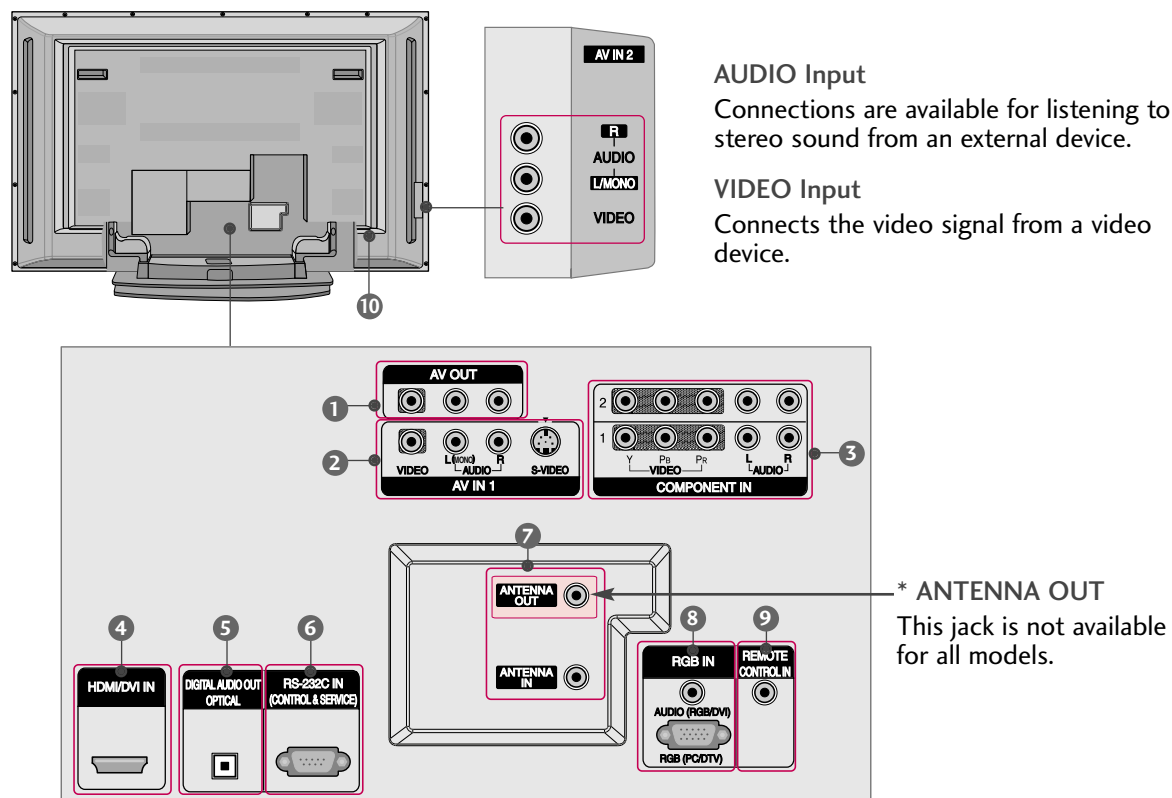
Power Standby Indicator
Illuminates red in stand-by mode.
When the TV is turned on, the indicator blinks white and then illuminates white before the picture is displayed.

CONNECTION OPTIONS

This manual explains the features available on the 42PC1D*, 50PC1D*, 60PC1D*.

- Here shown may be somewhat different from your TV.

Back Connection Panel



1 AV OUT

Connect a second TV or monitor.

2 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.

3 COMPONENT IN

Connect a component video/audio device to these jacks.

4 HDMI/DVI IN

Connect a HDMI signal.
Or DVI(VIDEO) signal to the this port with a HDMI to DVI cable.

5 DIGITAL AUDIO OUT OPTICAL

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

6 RS-232C IN (CONTROL & SERVICE) PORT

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

7 ANTENNA IN / ANTENNA OUT

Connect cable signals to this jack.

8 RGB/AUDIO IN

Connect the output from a settop box or PC to the appropriate input port.

9 Remote Control Port

Connect your wired remote control.

10 Power Cord Socket

For operation with AC power.

Caution: Never attempt to operate the TV on DC power.

INTRODUCTION

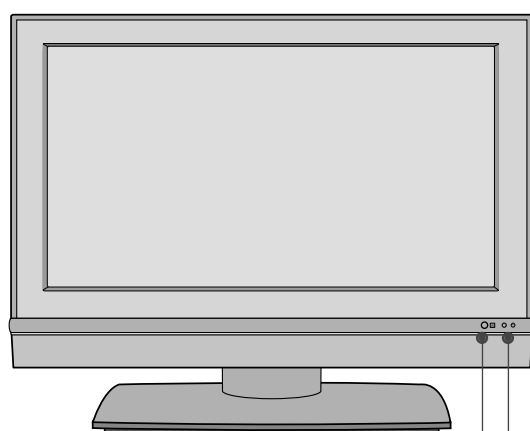
CONTROLS

This is a front panel of 32LC2D*, 37LC2D*, 42LC2D*.

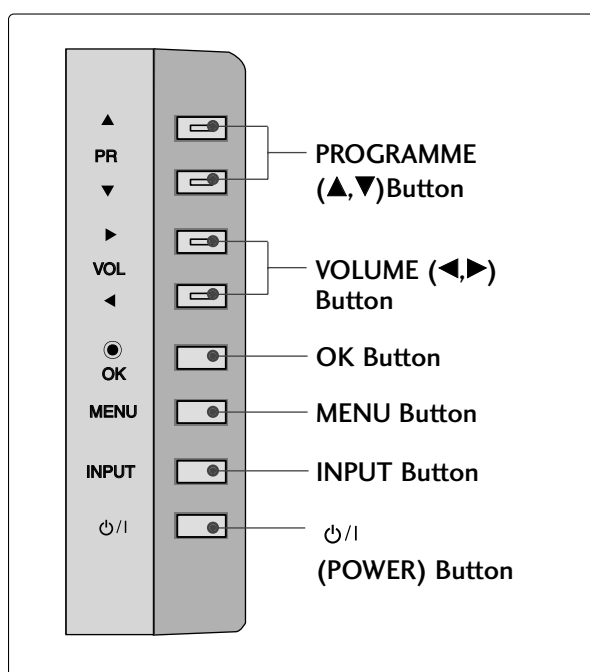
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INTRODUCTION

Front Panel Controls



Remote Control Sensor



Power Standby Indicator

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When the TV is turned on, the indicator blinks white and then illuminates white before the picture is displayed.

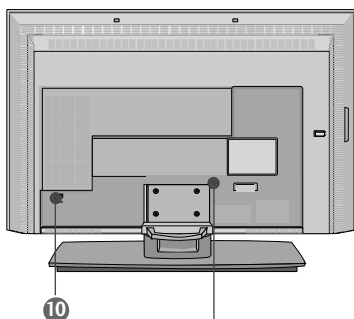
CONNECTION OPTIONS

This is the back panel of 32LC2D*, 37LC2D*, 42LC2D*.

■ Here shown may be somewhat different from your TV.

Back Connection Panel

37/42LC2D*



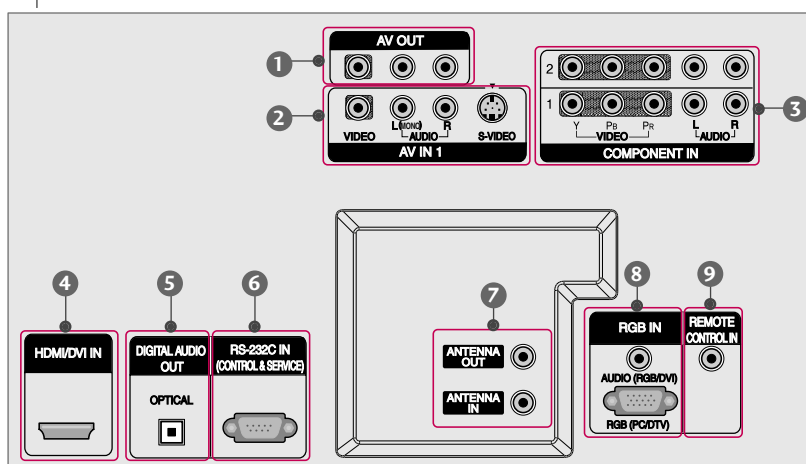
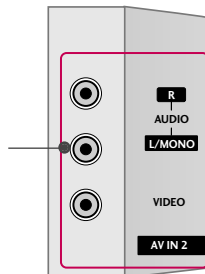
AUDIO Input

Connections are available for listening to stereo sound from an external device.

VIDEO Input

Connects the video signal from a video device.

32LC2D*



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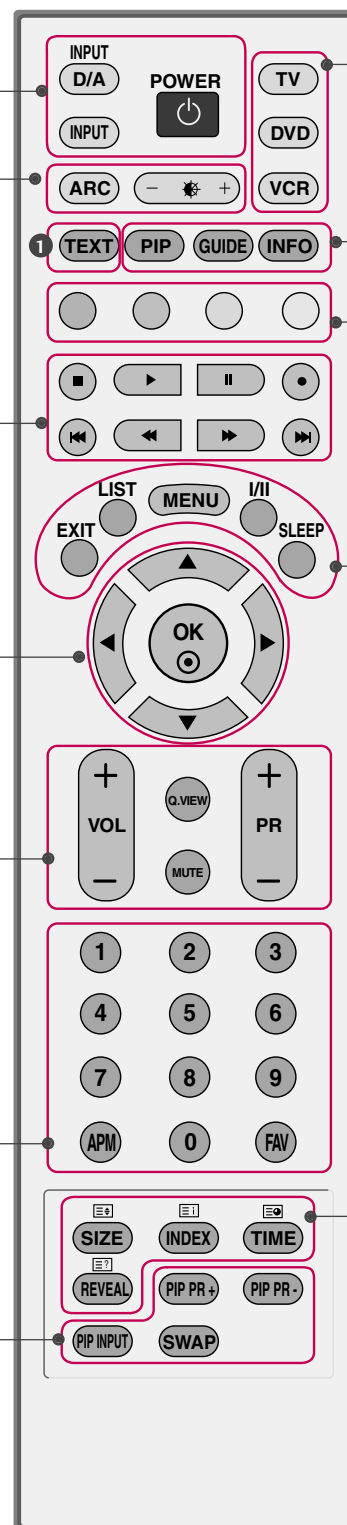
INTRODUCTION

REMOTE CONTROL KEY FUNCTIONS

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

INTRODUCTION

<p>D/A INPUT (Digital TV / Analogue TV) Selects digital or analogue mode.</p> <p>INPUT External input modes rotate in regular sequence: Digital, Analogue, AV1 -2, Component 1-2, RGB-DTV (or RGB-PC), HDMI/DVI.</p> <p>POWER Switches the set between ON and STANDBY.</p>	
<p>ARC Selects your desired picture format. ► p.78</p> <p>+/- ◉ Adjusts brightness on screen. ► p.55</p> <p>◉ It returns to the default settings brightness by changing mode source.</p>	
<p>VCR/DVD control buttons Control some video cassette recorders or DVD players ("RECORD" button is not available for DVD player).</p>	
<p>OK Accepts your selection or displays the current mode.</p> <p>THUMBSTICK (Up/Down/Left Right/OK)</p> <ul style="list-style-type: none"> ◉ Adjusts menu settings. ◉ Selects menu item. 	
<p>VOLUME +/- Increase/decrease the sound level.</p> <p>Q.VIEW Returns to the previously viewed programme.</p> <p>MUTE Switches the sound on or off.</p> <p>Programme +/- Selects a programme.</p>	
<p>NUMBER button</p> <p>APM Concurrently, compare with the Dynamic, Standard, Mild, User1 and User2 on the screen. ► p.55</p> <p>FAV (FAVOURITE) Displays the selected favourite programmes.</p>	
<p>PIP PR +/- Selects a programme for the sub picture.► p.37</p> <p>PIP INPUT Selects the input mode for the sub picture.► p.37</p> <p>SWAP Alternates between main and sub picture in PIP/Twin picture mode.► p.38</p>	



TV, DVD, VCR Selects the remote operating mode: TV, VCR, DVD. Select other operating modes, for the remote to operate external devices.

PIP Switches to PIP, POP and Twin picture modes or off mode. ► **p.36-39**

GUIDE Shows a programme schedule. ► **p.42**

INFO Shows the present screen information.

COLOURE Button They are used as per the indications or functions displayed on the TV screen in the case of Text displays (Teletext, EPG) and programme edit.

EXIT Returns to TV viewing from any menu.

LIST Displays the programme table. ► **p.51**

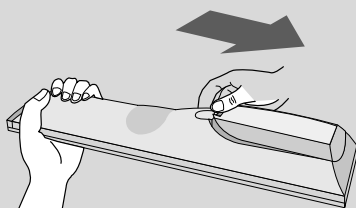
MENU Selects a menu.

I/II Selects the sound output or the audio mode. ► **p.69**

SLEEP Sets the sleep timer. ► **p.73**

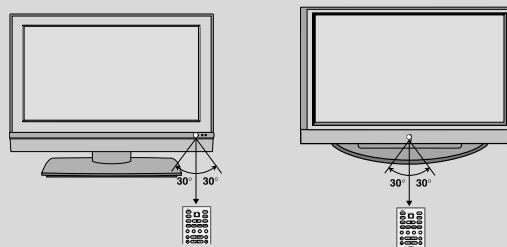
① TELETEXT BUTTONS These buttons are used for teletext. Text button is used to enable teletext services while other buttons are for teletext functions.
* For further details, see the 'Teletext' section. ► **p.40-41**

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

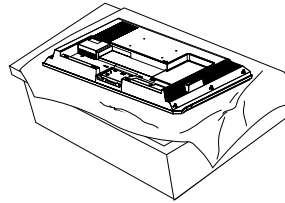


- Use a remote control up to 7 meters distance and 30 degree (left/right) within the receiving unit scope.
- Dispose of used batteries in a recycle bin to preserve environment.

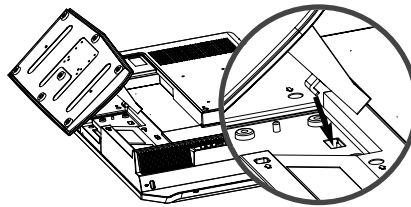
INSTALLATION

STAND INSTALLATION (FOR 32LC2D*)

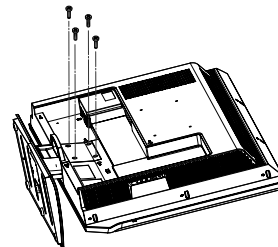
- 1 Carefully place the product screen side down on a cushioned surface that will protect product and screen from damage.



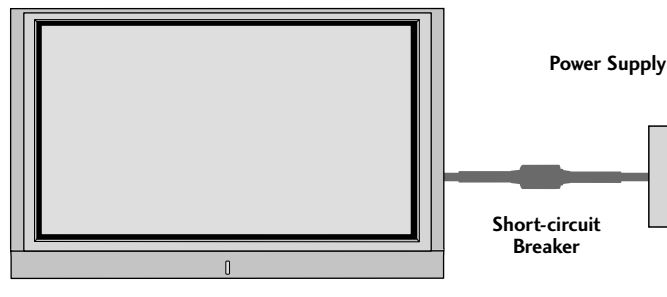
- 2 Place the hook of the stand in the back of the product as shown.



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



- This manual explains the features available on the 42PC1D*, 50PC1D*, 60PC1D*.
- Here shown may be somewhat different from your TV.



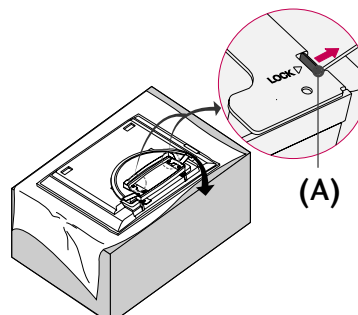
GROUNDING

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.

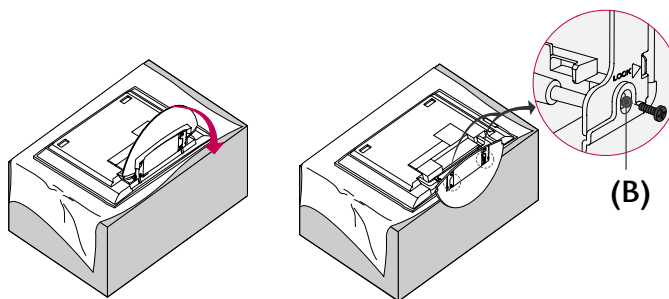
Do not try to ground the unit by connecting it to telephone wires, lightening rods, or gas pipes.

STAND INSTALLATION (FOR 42PC1D*)

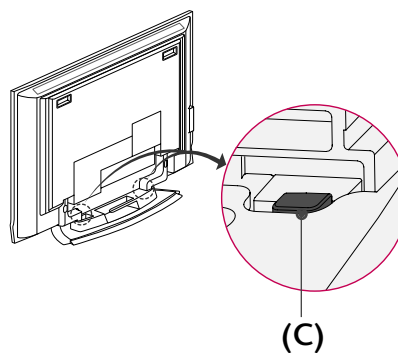
- 1 Place the set with the screen facing down on a cushion or soft cloth as shown.
Before unfolding the stand, please make sure two locks (A) on the bottom of the stand push outward.



- 2 Pull the stand out as shown.
After unfolding the stand, please insert and tighten the screws (provided as parts of the product) in the holes (B) on the bottom of the stand.



- 3 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.

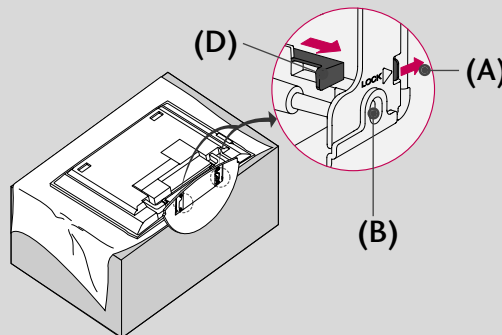


! NOTE

Image 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 the two Locks (A) of the stand bottom outward.

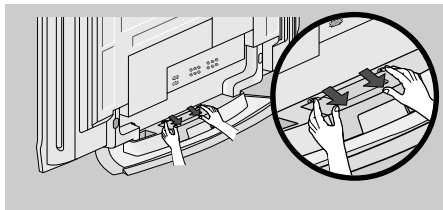


INSTALLATION

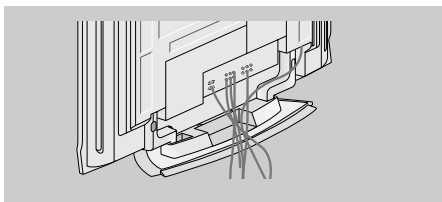
WIRE ARRANGEMENT

This function explains the features available on the 50PC1D*.

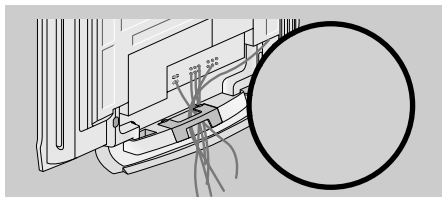
- 1 Hold the **CABLE MANAGEMENT** with both hands and pull it backward as shown.



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



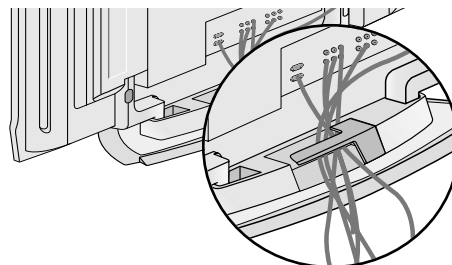
- 3 Install the **CABLE MANAGEMENT** as shown.

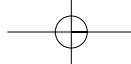


This function explains the features available on the 42PC1D*, 60PC1D*.

- 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 Arrange the cable as shown.

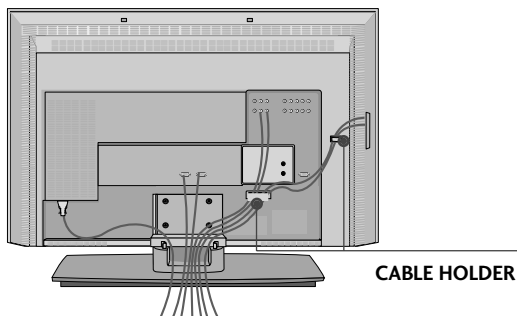




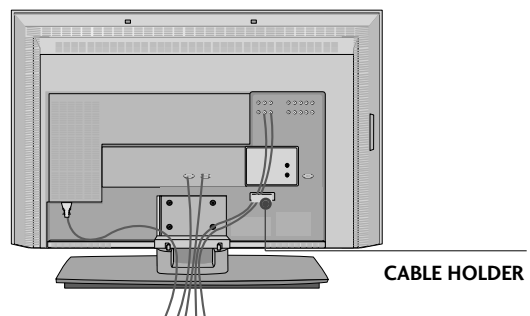
This function explains the features available on the 32LC2D*, 37LC2D*, 42LC2D*.

- 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.

37LC2D*, 42LC2D*

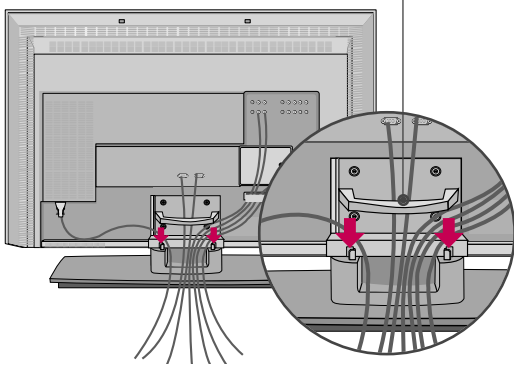


32LC2D*

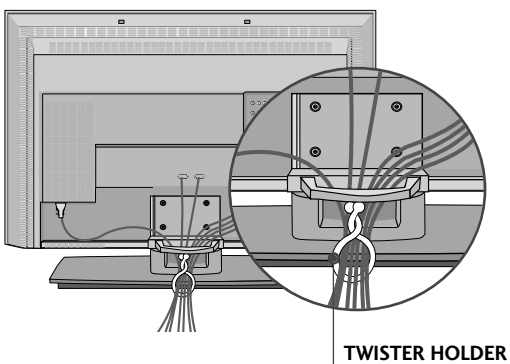


- 2 Install the **CABLE MANAGEMENT** as shown.

CABLE MANAGEMENT



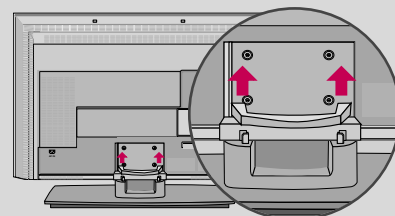
- 3 Bundle the cables using the supplied twister holder.



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.

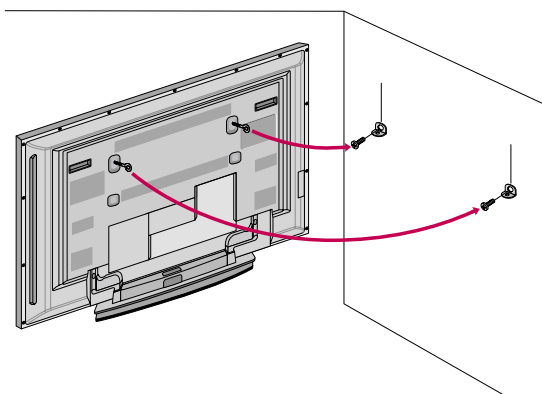
INSTALLATION

ATTACHING THE TV TO A WALL

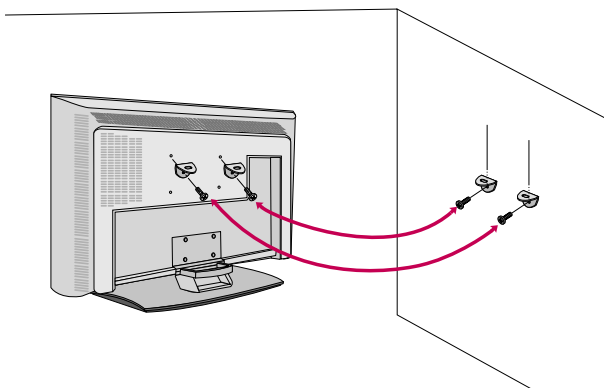
Set it up close to the wall so the product doesn't fall over when it is pushed backwards.

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 forward 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.

42/50/60PC1D*



32/37/42LC2D*



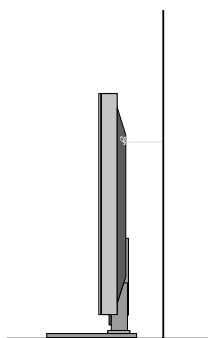
- Insert the eye-bolts (or TV brackets and bolts) to tighten the product to the wall as shown in the picture.

* If your product has the bolts in the eye-bolts position before inserting the eye-bolts, loosen the bolts.

Insert the eye-bolts and tighten them securely in the upper holes.

Secure the wall brackets with the bolts (not provided as parts of the product, must purchase separately) on the wall. Match the height of the bracket that is mounted on the wall to the holes in the product.

Ensure the eye-bolts or brackets are tightened securely.

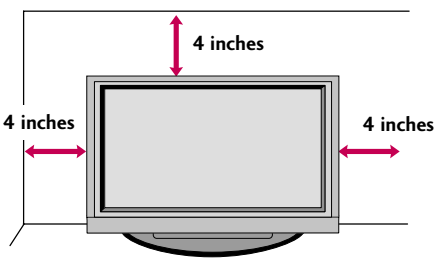


- Use a sturdy rope (must be purchased separately) to secure the TV. It is safer to tie the rope so it runs horizontally between the wall and the TV.

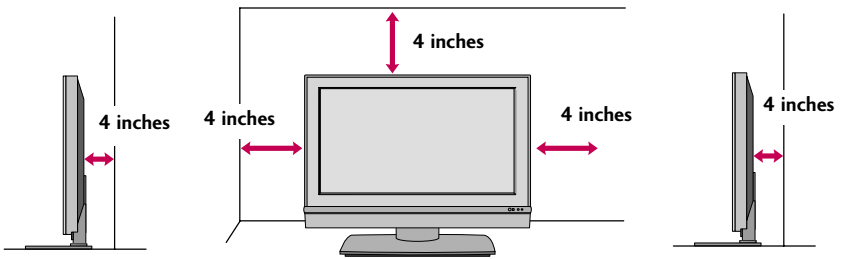
DESKTOP PEDESTAL INSTALLATION

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

42/50/60PC1D*



32/37/42LC2D*



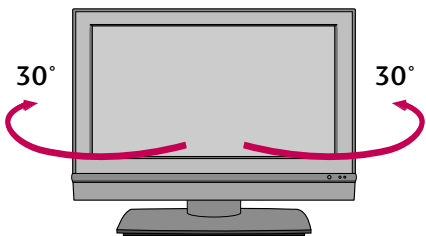
INSTALLATION

⚠ CAUTION

- Ensure adequate ventilation by following the clearance recommendations.

SWIVEL STAND

This function explains the features available on the 42LC2D*.



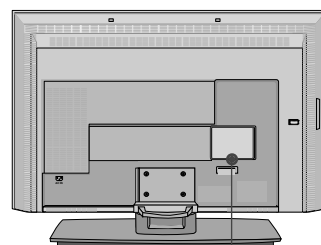
The TV can be conveniently swivelled on its stand 30° to the left or right to provide the optimum viewing angle.

CONNECTIONS & SETUP

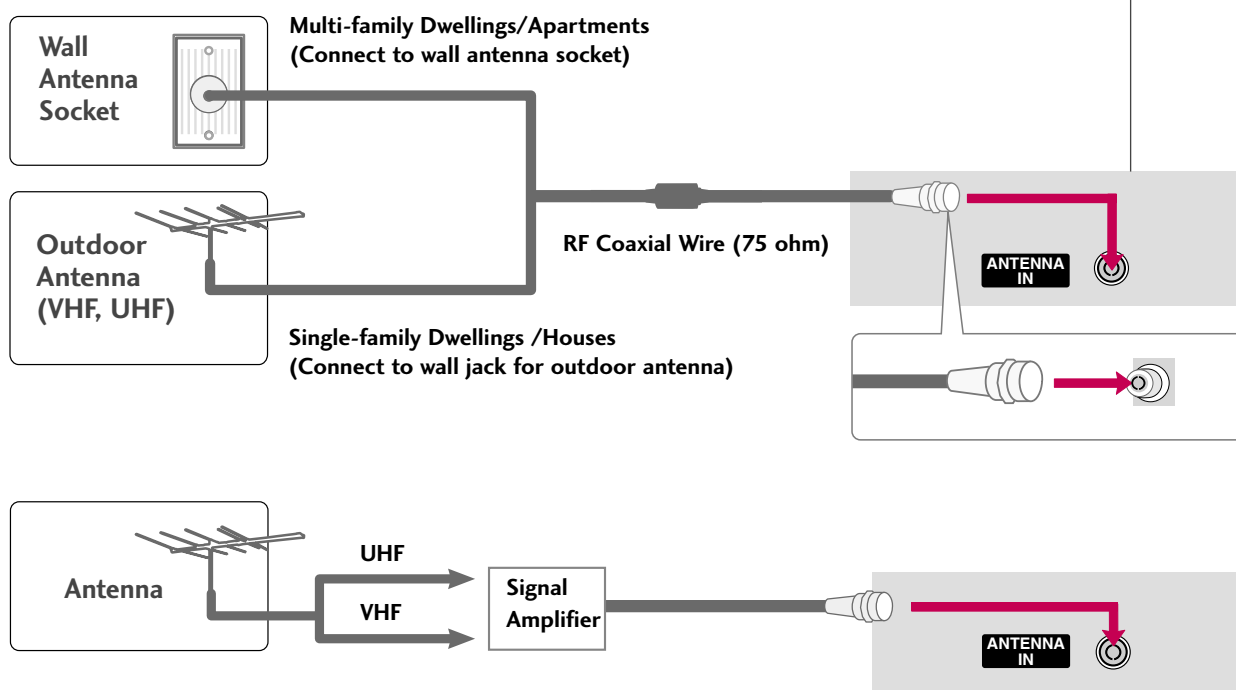
'Connections & Setup' part explains the features available on the 32/37/42LC2D*.

ANTENNA CONNECTION

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



CONNECTIONS & SETUP



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

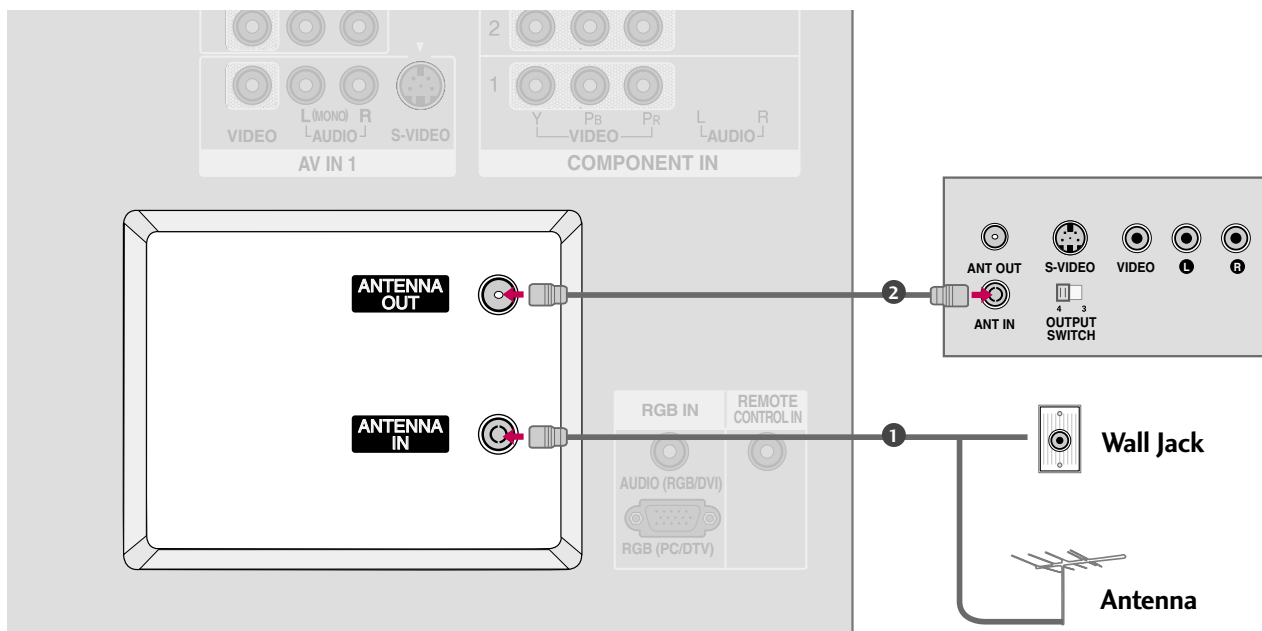
! NOTE

- ▶ The TV will let you know when the analogue, cable, and digital programme scans are complete.

ANTENNA LOOP THROUGH SOCKET

- 42PC1DV, 32/37/42LC2D only

The TV has a special signal output capability which allows you to hook up the second TV.



1. How to connect

- 1 Connect the wall antenna socket or outdoor antenna to the TV's **ANTENNA IN** socket.
- 2 Connect a second TV's antenna socket to the TV's **ANTENNA OUT** socket.

! NOTE

► In standby mode, these ports do not work.

CONNECTIONS & SETUP

HDSTB SETUP

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

This TV supports HDCP (High-bandwidth Digital Contents Protection) protocol for Digital Contents (480p,720p,1080i).

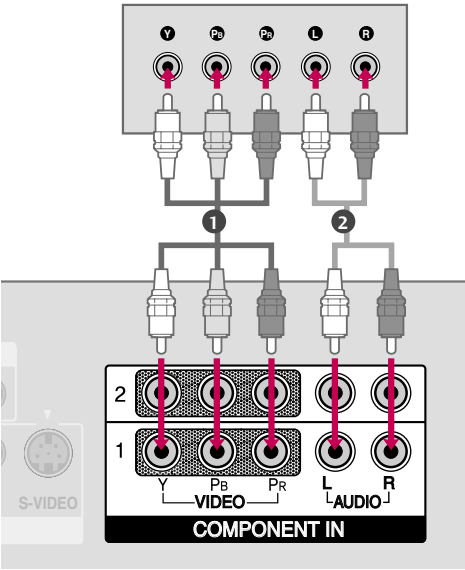
When connecting Component cable

1. How to connect

- Connect the video outputs (Y, PB, PR) of the digital set top box to the **COMPONENT IN VIDEO 1** jacks on the set. Match the jack colors (Y = green, PB = blue, and PR = red)
- Connect the audio output of the digital set-top box to the **COMPONENT IN AUDIO 1** jacks on the set.

2. How to use

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



Signal	Component 1/2	RGB-DTV, HDMI
480i	Yes	No
480p	Yes	Yes
576i	Yes	No
576p	Yes	Yes
720p	Yes	Yes
1080i	Yes	Yes

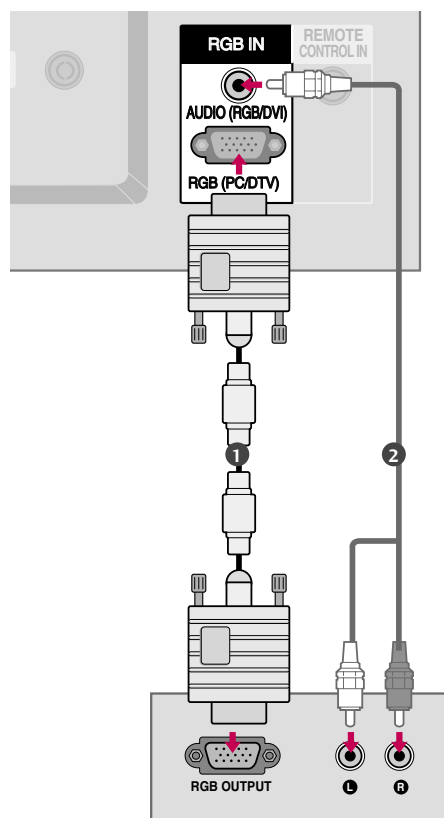
When connecting D-sub 15pin cable

1. How to connect

- 1 Connect the RGB output of the digital set-top box to the **RGB (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.

2. How to use

- Turn on the digital set-top box.
(Refer to the owner's manual for the digital set-top box.)
- Select **RGB-DTV** input source with using the **INPUT** button on the remote control.



When connecting HDMI cable

1. How to connect

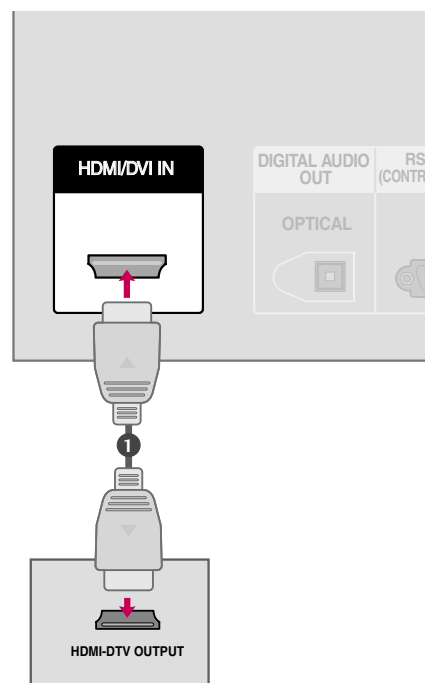
- 1 Connect the digital set-top box to **HDMI/DVI IN** jack on the set.
- 2 No separated audio connection is necessary.

2. How to use

- Turn on the digital set-top box.
(Refer to the owner's manual for the digital set-top box.)
- Select **HDMI/DVI** input source with using the **INPUT** button on the remote control.

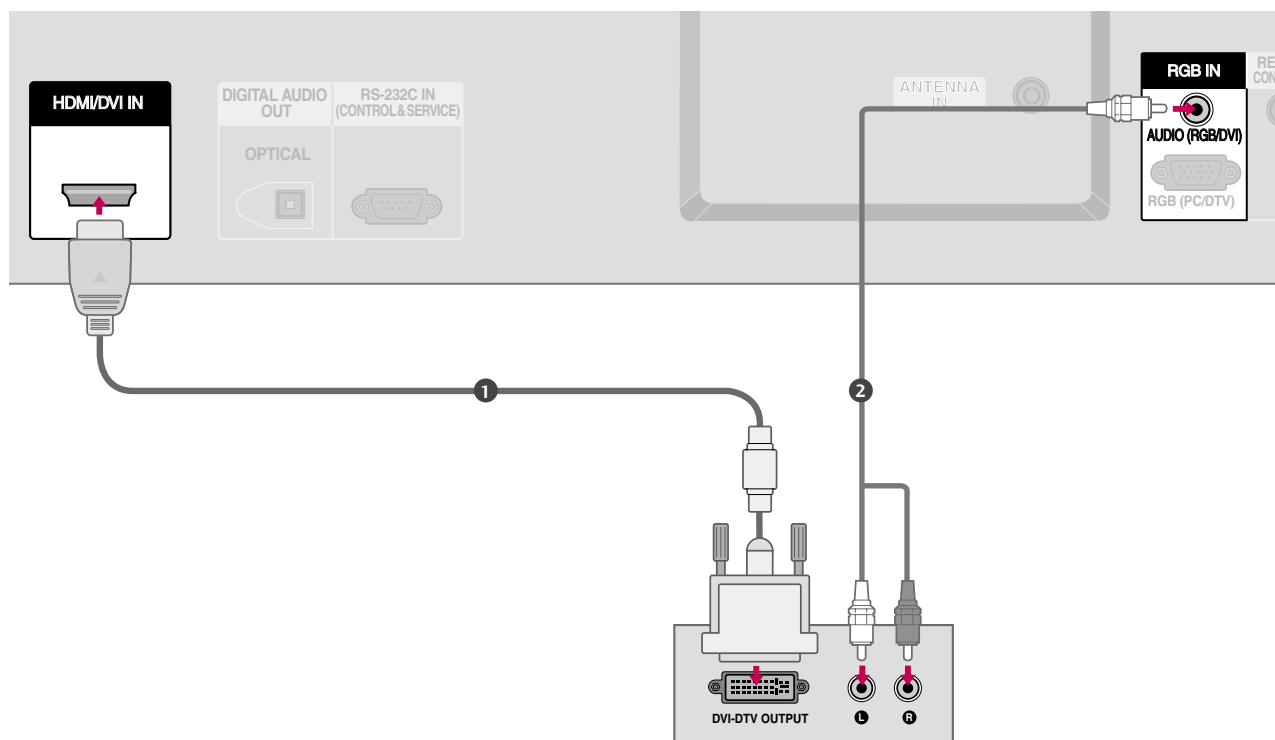
! NOTE

- ▶ If the digital set-top box supports Auto HDMI function, the output resolution of the source device will be automatically set to 1280x720p.
- ▶ If the digital set-top box player 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 source device to 1280x720p.



CONNECTIONS & SETUP

When connecting HDMI to DVI cable



CONNECTIONS & SETUP

1. How to connect

- 1 Connect the DVI output of the digital set-top box to the **HDMI /DVI IN** jack on the set.
- 2 Connect the audio output of the digital set-top box to the **AUDIO (RGB/DVI)** jack on the set.

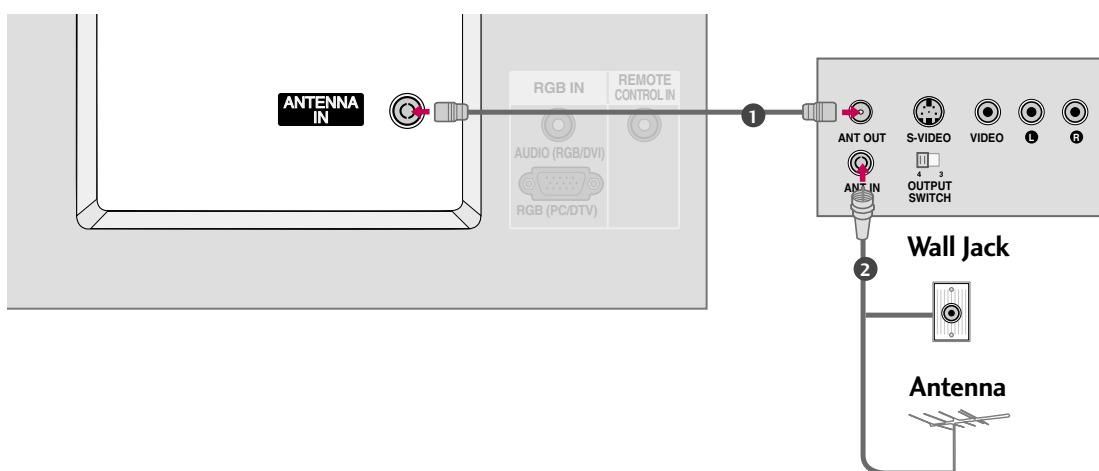
2. How to use

- Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
- Select **HDMI/DVI** input source with using the **INPUT** button on the remote control.

VCR SETUP

- To avoid picture noise (interference), leave an adequate distance between the VCR and TV.
- If the 4:3 picture format is used; the fixed images on the sides of the screen may remain visible on the screen. This phenomenon is common to all manufactures and in consequence the manufactures warranty does not cover the product bearing this phenomenon.

When connecting with an antenna



1. How to connect

- 1 Connect the RF antenna out socket of the VCR to the **Antenna** socket on the set.
- 2 Connect the antenna cable to the RF antenna in socket of the VCR.

2. How to use

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

CONNECTIONS & SETUP

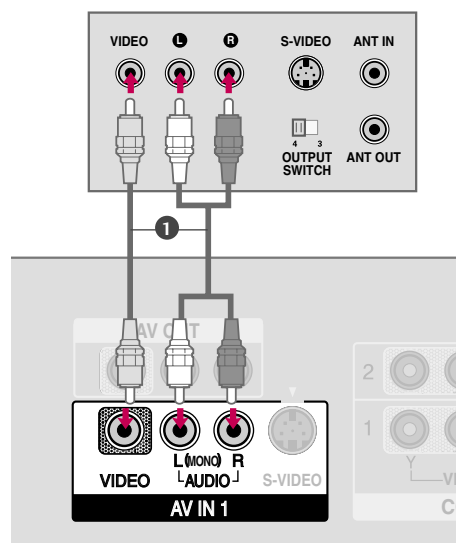
When connecting with a RCA cable

1. How to connect

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

2. How to use

- Insert a video tape into the VCR and press **PLAY** on the VCR. (Refer to the VCR owner's manual.)
- Select **AV1** input source with using the **INPUT** button on the remote control.
- If connected to **AV IN2**, select **AV2** input source.



! NOTE

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

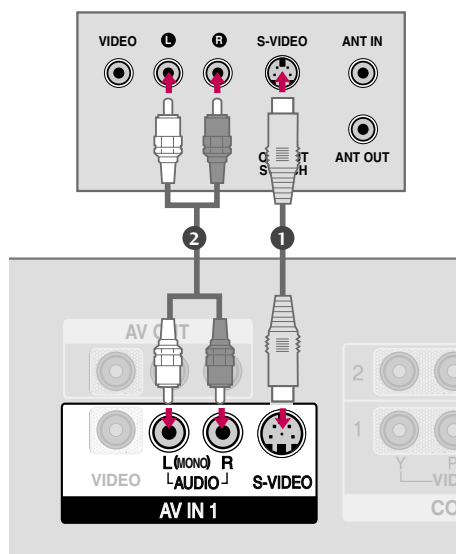
When connecting with an S-Video cable

1. How to connect

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

2. How to use

- Insert a video tape into the VCR and press **PLAY** on the VCR. (Refer to the VCR owner's manual.)
- Select **AV1** input source with using the **INPUT** button on the remote control.



! CAUTION

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

! NOTE

- ▶ The picture quality is improved; compared to normal composite (RCA cable) input.

AV OUT SETUP

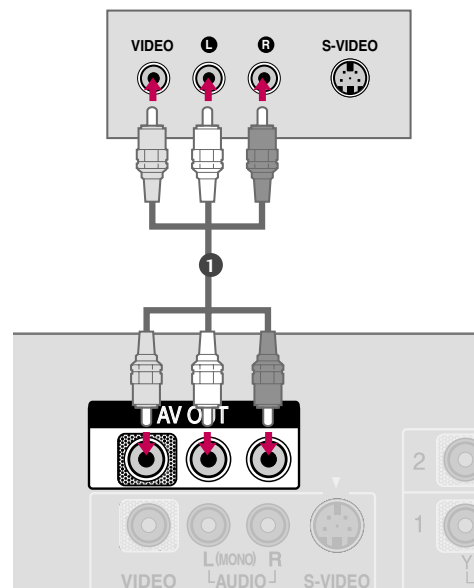
The TV has a special signal output capability which allows you to hook up the second TV or monitor.

1. How to connect

- 1 Connect the second TV or monitor to the TV's **AV OUT** jacks.
- 2 See the Operating Manual of the second TV or monitor for further details regarding that device's input settings.

! NOTE

- ▶ Digital, Component1-2, RGB-PC/RGB-DTV, HDMI/DVI input sources cannot be used for AV out.
- ▶ We recommend to use the AV OUT jacks for VCR recording.



CONNECTIONS & SETUP

DIGITAL AUDIO OUTPUT

Send the TV's audio to external audio equipment via the Digital Audio Output (Optical) port.

1. How to connect

- 1 Connect one end of an optical cable to the TV Digital Audio (Optical) Output port.
- 2 Connect the other end of the optical cable to the digital audio (optical) input on the audio equipment.
- 3 Set the "TV Speaker option - Off" in the AUDIO menu. (► p.68). See the external audio equipment instruction manual for operation.

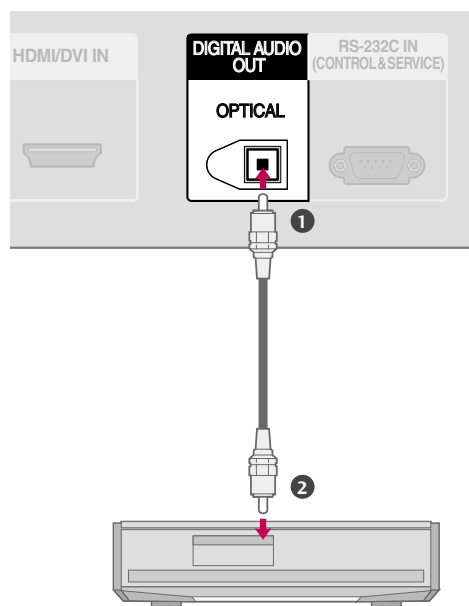
! NOTE

- When connecting with external audio equipments, such as amplifiers or speakers, please turn the TV speakers off. (► p.68)

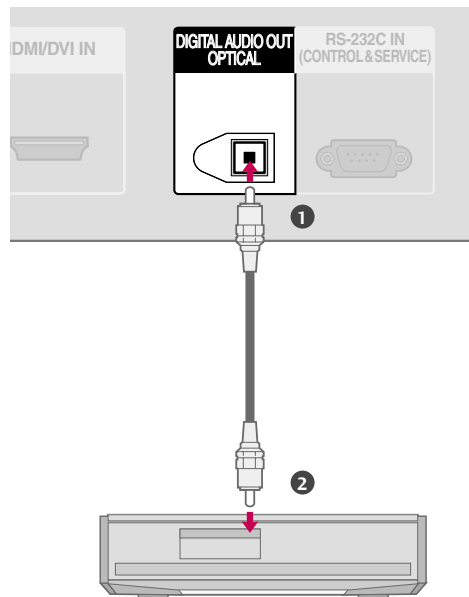
! CAUTION

- Do not look into the optical output port. Looking at the laser beam may damage your vision.

i.e) 32/37/42LC2D*



i.e) 42PC1D*, 50PC1D*, 60PC1D*



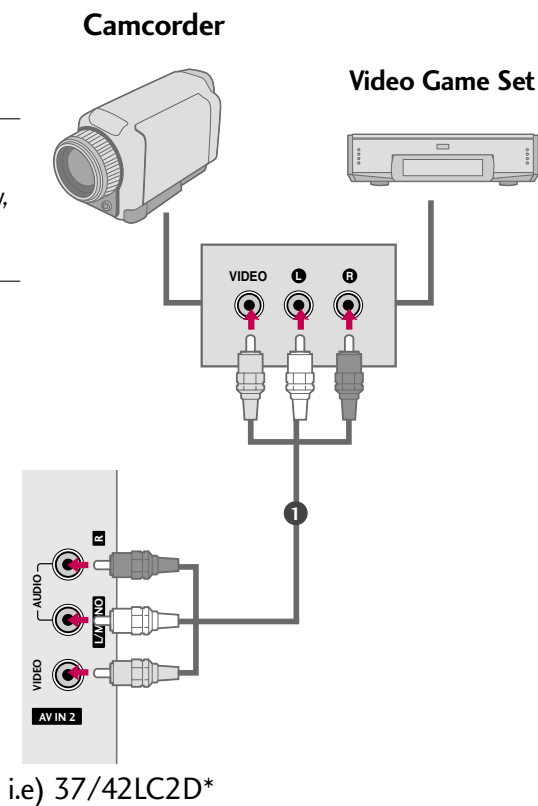
EXTERNAL A/V SOURCE SETUP

1. How to connect

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

2. How to use

- Select **AV1** input source with using the **INPUT** button on the remote control.
- If connected to **AV IN2** input, select **AV2** input source.
- Operate the corresponding external equipment.



CONNECTIONS & SETUP

DVD SETUP

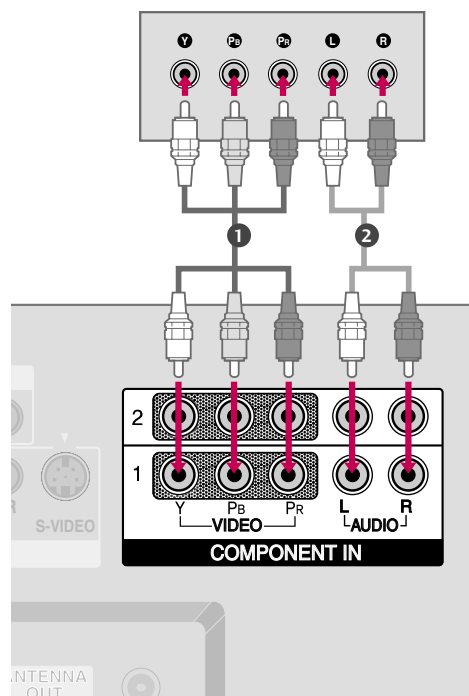
When connecting Component cable

1. How to connect

- 1 Connect the video outputs (Y, PB, PR) of the DVD to the **COMPONENT IN VIDEO1** jacks on the set.
Match the jack colors (Y = green, PB = blue, and PR = red).
- 2 Connect the audio outputs of the DVD to the **COMPONENT IN AUDIO1** jacks on the set.

2. How to use

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



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

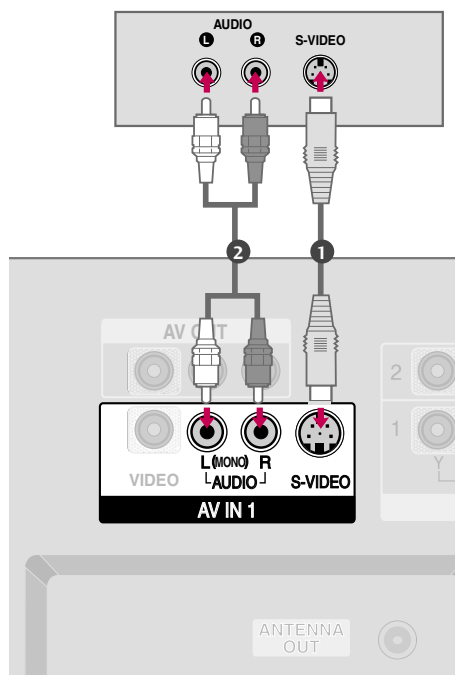
When connecting with an S-Video cable

1. How to connect

- 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.

2. How to use

- Turn on the DVD player, insert a DVD.
- Select **AV1** input source with using the **INPUT** button on the remote control.
- Refer to the DVD player's manual for operating instructions.



When connecting HDMI cable

1. How to connect

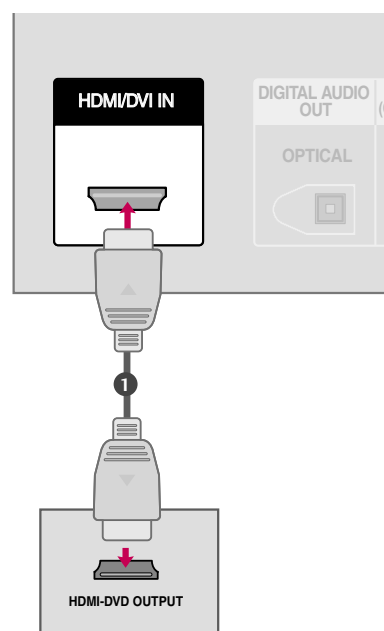
- 1 Connect the HDMI output of the DVD to the **HDMI/DVI IN** jack on the set.
- 2 No separated audio connection is necessary.

2. How to use

- Select **HDMI/DVI** input source with using the **INPUT** button on the remote control.
- Refer to the DVD player's manual for operating instructions.

! NOTE

- ▶ 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.



CONNECTIONS & SETUP

PC SETUP

This TV provides Plug and Play capability, meaning that the PC adjusts automatically to the TV's settings. The TV perceives 640x480, 60Hz as DTV 480p based on the PC graphic card. If necessary, change the screen scanning rate for the graphic card accordingly.

When connecting D-sub 15pin cable

1. How to connect

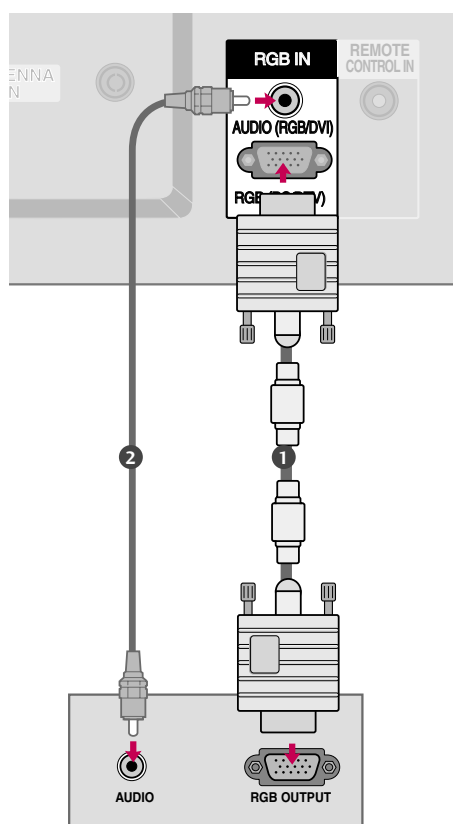
- 1 Connect the RGB output of the PC to the **RGB (PC/DTV)** jack on the set.
- 2 Connect the PC audio output to the **AUDIO (RGB/DVI)** jack on the set.

2. How to use

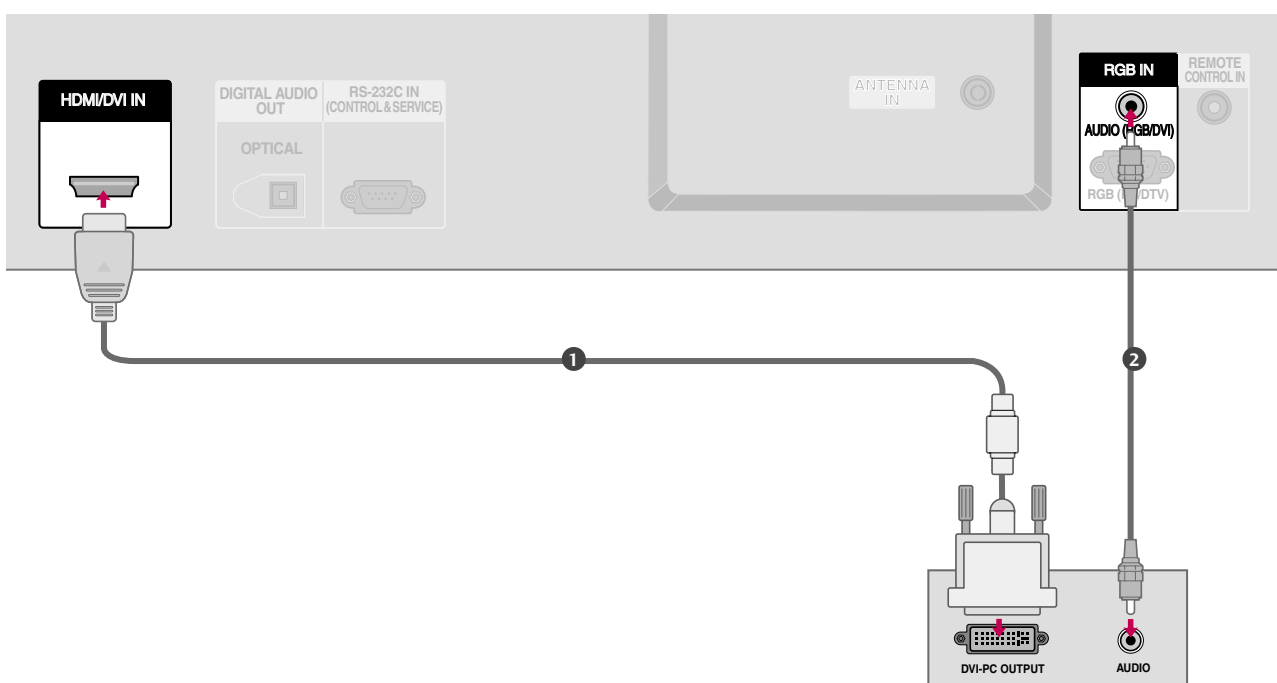
- Turn on the PC and the set.
- Select **RGB-PC** input source in main input option of Special menu. (▶ p.75)
- Once you select **RGB-PC** in main input option of Special menu, **INPUT** button is also available for this purpose.

! NOTE

- ▶ Check the image on your TV. There may be noise associated with the resolution, vertical pattern, contrast or brightness in PC mode. If noise is present, change the PC output to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on the VIDEO menu until the picture is clear. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult the manufacturer of the PC graphic card.



When connecting HDMI to DVI cable



1. How to connect

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

2. How to use

- Turn on the PC and the set
- 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.

CONNECTIONS & SETUP

! NOTES

- ▶ To get the the best picture quality, adjust the PC graphics card to 1024x768, 60Hz.
- ▶ Depending on the graphics card, DOS mode may not work if a HDMI to DVI Cable is in use.
- ▶ When Source Devices are connected with HDMI/DVI Input, the output PC Resolution(VGA, SVGA, XGA), Position and Size may not fit on the Screen. As shown in the picture below, press the ADJUST button to adjust the screen Position of the TV SET and contact a PC graphics card service center.
- ▶ When Source Devices connected with HDMI/DVI Input, output TV SET Resolution (480p, 720p, 1080i) and TV SET Display fit EIA/CEA-861-B Specification to Screen. If not, refer to the Manual of HDMI/DVI Source Devices or contact your service center.
- ▶ If the HDMI/DVI Source Device is not connected to the Cable or if there is a poor cable connection, "No signal" is displayed in the HDMI/DVI Input. In this case, that Video Resolution is not supported. If "Invalid Format" is displayed, refer to the Source Device manual or contact your service center.
- ▶ Avoid keeping a fixed image on the screen for a long period of time. The fixed image may become permanently imprinted on the screen.
- ▶ The synchronization input form for Horizontal and Vertical frequencies is separate.

Supported Display Specifications (RGB/HDMI-PC)

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
640x350	31.468	70.09
640x480	31.469	59.94
	37.861	72.80
	37.500	75.00
800x600	35.156	56.25
	37.879	60.31
	48.077	72.18
	46.875	75.00
1024x768	48.363	60.00
	56.476	70.06
	60.023	75.02

* RGB-PC mode only: 640x350

Supported Display Specifications (RGB/HDMI-DTV)

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
720x576	31.25	50.00
720x480	31.47	59.94
	31.50	60.00
1280x720	37.50	50.00
	44.96	59.94
	45.00	60.00
1920x1080	28.125	50.00
	33.72	59.94
	33.75	60.00

Screen Setup for PC mode

Overview

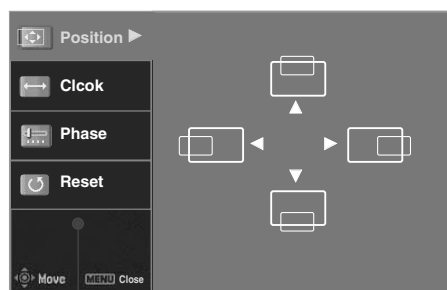
This function works in the following mode:

Component1, Component2, RGB-PC, RGB-DTV, or HDMI/DVI.

Note: Some signal from some graphics boards may not function properly. If the results are unsatisfactory, adjust your monitor's position, size and phase manually.

Adjustment for screen Position, Clock, Phase

- 1 Press the **OK** button and then use **▲** or **▼** button to select **Position**, **Clock**, or **Phase**.
- 2 Press the **►** button and then use **▲ ▼ ◀ ▶** button to make appropriate adjustments.
 - The **Phase** adjustment range is **-32 ~ +32**.
The **Phase** only works in Component 1-2, RGB-PC and RGB-DTV mode.
 - The **Clock** adjustment range is **-50 ~ +50**.
The **Clock** only works in RGB-PC mode.
- 3 Press the **OK** button.



1 2 3

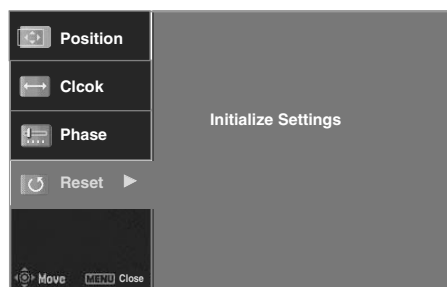
- Position** This function is to adjust picture to left/right and up/down as you prefer.
- Clock** This function is to minimize any vertical bars or stripes visible on the screen background. And the horizontal screen size will also change.
- Phase** This function allows you to remove any horizontal noise and clear or sharpen the image of characters. In HDMI/DVI-PC mode, PHASE is not available.

Initializing (Reset to original factory values)

To initialize the adjusted values

This function allows you to return to the good picture reproduction programmed at the factory and cannot be change.

- 1 Press the **OK** button and then use **▲** or **▼** button to select **Reset**.
- 2 Press the **►** button and then use **◀** or **▶** button to select **Yes**.
- 3 Press the **OK** button.




1 2 3

BASIC OPERATION

TURNING THE TV ON

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

- 1 Ensure the power cord is connected correctly.
When connected to power the TV switches to standby mode.
 - In standby mode, press the  , INPUT, PR + / - button on the TV or press the POWER, INPUT, D/A INPUT, PR + / -, Number (0~9) button on the remote control.
- 2 Select the viewing source by using the INPUT button on the remote control.
 - This TV is programmed to remember which mode it was last set to, even if you turn the TV off.
- 3 When finished using the TV, press the POWER button on the remote control. The TV reverts to standby mode.



! NOTE

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

INITIALIZING SETUP

- 1 If the OSD (On Screen Display) is displayed on the screen as figure 1 after turning on the set, you can adjust the Auto Programme tuning, Time Zone selection or Password setting.

! NOTE

- ▶ It will automatically disappear after approx. 40 seconds unless a button is pressed.

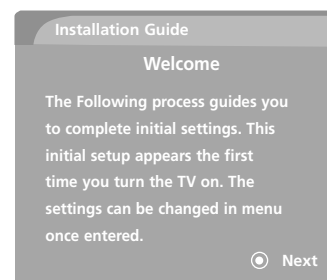
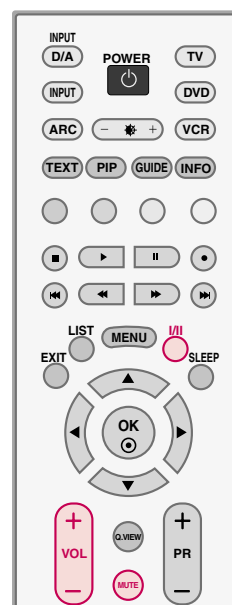


Figure 1.

VOLUME ADJUSTMENT

Adjust the volume to suit your personal preference.

- 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 the Mute function by pressing the **MUTE**, **I/II** or **VOL + / -** button.

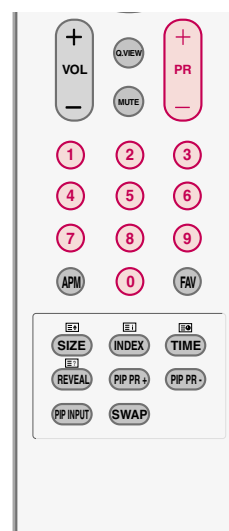


BASIC OPERATION

PROGRAMME SELECTION

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

- 1 Press the **PR + / -** or **NUMBER** buttons to select a programme number.



SPECIAL FUNCTIONS | PIP / POP / Twin Picture

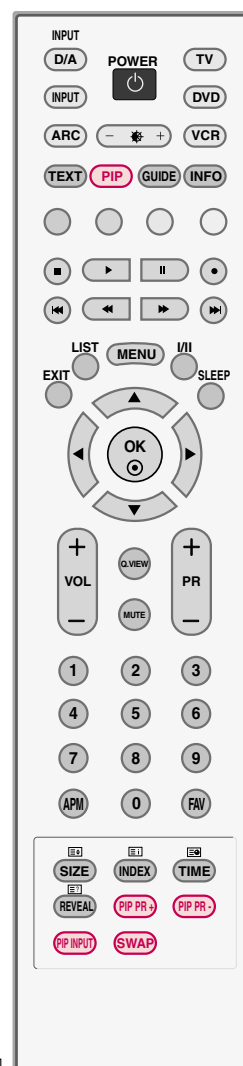
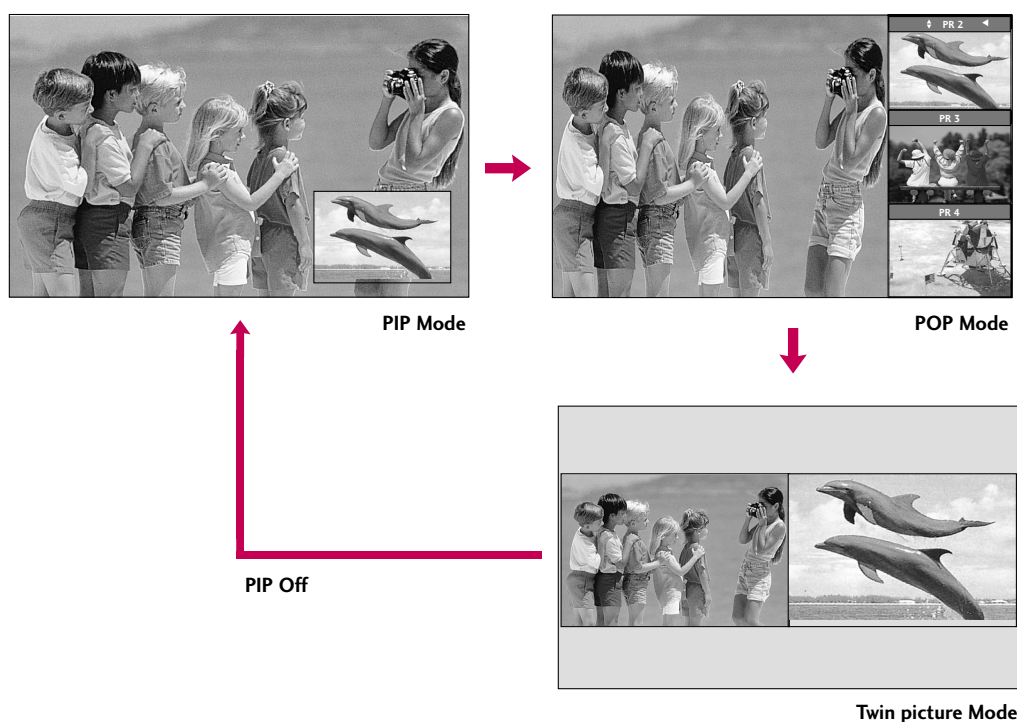
PIP lets you view 2 different inputs (sources) on your TV screen at the same time. One source will be large, and the other source will show a smaller inset image.

Twin Picture mode splits the screen into two images, allowing two picture sources to be shown on the TV screen at the same time. Each source is given half the screen.

Watching PIP/POP/Twin Picture

Press the **PIP** button to access the sub picture.

Each press of PIP changes the PIP options as shown below.



! NOTE

- ▶ When the sub picture size is 1/2 of the main picture, the picture quality may deteriorate.
- ▶ The motion of the sub picture can be unnatural because the set displays full screen by synchronizing the main picture source when the refresh rate between the main picture source and the sub picture source is different in PIP mode.

Selecting an Input Signal Source for PIP/Twin Picture

Use the **PIP INPUT** button to select the input source for the sub picture. Each press of **PIP INPUT** changes the PIP source. You can also select sources for the **Sub Input** in the **SPECIAL** menu.

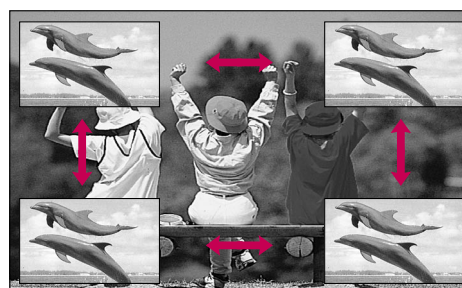
Main Picture Source	Available Sub Picture Sources
Digital	Analogue, AV1, and AV2
Analogue	Digital, AV1, and AV2
AV1-2, Component1-2, RGB, HDMI/DVI	Digital, Analogue, AV1-2

TV Program selection for PIP

- 1 Press the **PIP** button.
- 2 Select the **Digital** or **Analogue** option on the Sub input menu or with the **PIP INPUT** button. Use the **PIP PR+** / **PIP PR-** button to select a programme for the sub picture.

Moving the PIP sub picture

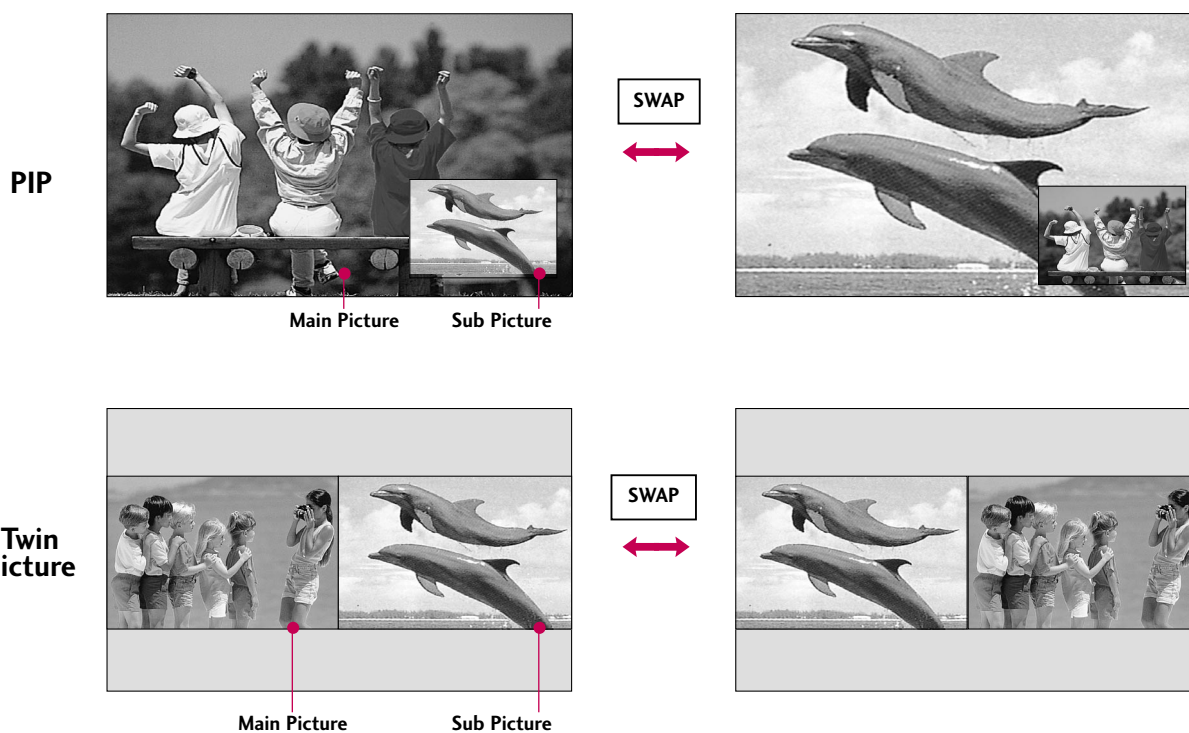
- 1 In PIP mode, press the **▲ ▼ ◀ ▶** button to move the sub picture to a different location on the screen.



SPECIAL FUNCTIONS | PIP / POP / Twin Picture

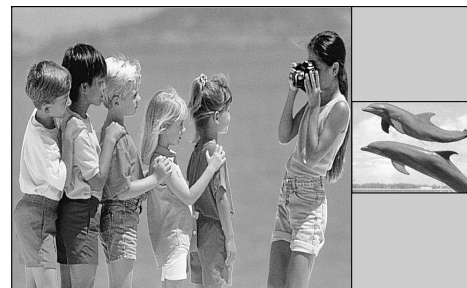
Swapping the PIP/Twin Picture

- 1 Repeatedly, use the **SWAP** button to switch the main and sub pictures.
 - When the main picture is Digital, Analogue or AV modes, the swapping is available.



Adjusting Main and Sub Picture Sizes for Twin Picture

- 1 Use the **▲ ▼ ◀ ▶** button to change main and sub picture sizes in Twin Picture mode.
 - If the screen is adjusted to the maximal size, the large screen is filled with entire program vertically as shown.



POP (Picture-out-of-Picture : Programme Scan)

Use POP to search the programs of all the memorized programmes one-by-one on the 3 PIP screen display, (while the main picture source remains the current programme). The pictures of all the programmed programmes are searched with the 3 POP screens.

1 Press the **PIP** button to activate the **POP mode** while in **PIP mode**.

- **Programme selection** : Use ◀ button to enlarge the selected programme being searched on the PIP screen to shift it for viewing on the Main screen.
- **PIP selection** : Use ▲ or ▼ button to select one of 3 PIP screen pictures in **POP** mode.
- When watching Analogue TV on Main picture, Digital TV on Sub pictures are in programme scanning. However, when watching Digital TV on Main picture, only Analogue TV on Sub picture is in programme scanning.



2 Press the **EXIT** button to cancel POP mode.

! NOTE

- Run Auto programme before using POP mode.

SPECIAL FUNCTIONS | TELETEXT

TELETEXT

* This feature is not available in all countries.

- Teletext is a free service broadcast by most TV stations which gives up-to-the-minute information on news, weather, television programmes, share prices and many other topics.
- The teletext decoder of this TV can support the SIMPLE, TOP and FASTEXT systems. SIMPLE (standard teletext) consists of a number of pages which are selected by directly entering the corresponding page number. TOP and FASTEXT are more modern methods allowing quick and easy selection of teletext information.

Switch On/Off

Press the **TEXT** button to switch to teletext. The initial page or last page appears on the screen.

Two page numbers, TV station name, date and time are displayed on the screen headline. The first page number indicates your selection, while the second shows the current page displayed.

Press the **TEXT** or **EXIT** button to switch off teletext.

SIMPLE Text

* This feature is not available in all countries.

■ Page selection

- 1 Enter the desired page number as a three digit number with the NUMBER buttons. If during selection you press a wrong number, you must complete the three digit number and then re-enter the correct page number.
- 2 The **PR +/-** button can be used to select the preceding or following page.

TOP Text

* This feature is not available in all countries.

- The user guide displays four fields-red, green, yellow and blue at the bottom of the screen. The yellow field denotes the next group and the blue field indicates the next block.

■ Block / group / page selection

- 1 With the **BLUE** button you can progress from block to block.
- 2 Use the yellow button to proceed to the next group with automatic overflow to the next block.
- 3 With the **GREEN** button you can proceed to the next existing page with automatic overflow to the next group. Alternatively the **PR +** button can be used.
- 4 The red button permits to return to previous selection. Alternatively the **PR-** button can be used.


■ Direct page selection

Corresponding to the SIMPLE teletext mode, you can select a page by entering it as a three digit number using the NUMBER buttons in TOP mode.

FASTEXT

- The teletext pages are colour coded along the bottom of the screen and are selected by pressing the corresponding coloured button.

■ Page selection

1. Press the  button to select the index page.
2. You can select the pages which are colour coded along the bottom line with the same coloured buttons.
3. Corresponding to the SIMPLE teletext mode, you can select a page by entering its three digit page number with the NUMBER buttons in FASTEXT mode.
4. The **PR +/-** button can be used to select the preceding or following page.

Special Teletext Functions



REVEAL

Press this button to display concealed information, such as solutions of riddles or puzzles. Press this button again to remove the information from the display.



SIZE

Selects double height text.
Press this button to enlarge the top half of the page.
Press this button again to enlarge the bottom half of the page.
Press this button again to return to the normal display.



TIME

- a. When viewing a TV programme, press this button to display the time at the top right hand corner of the screen. Press this button again to remove the display.
- b. In the teletext mode, press this button to select a sub page number. The sub page number is displayed at the bottom of the screen. To hold or change the sub page, press the **RED**, **GREEN**, or **PR +/-** buttons.
Press this function again to exit.

SPECIAL FUNCTIONS | EPG

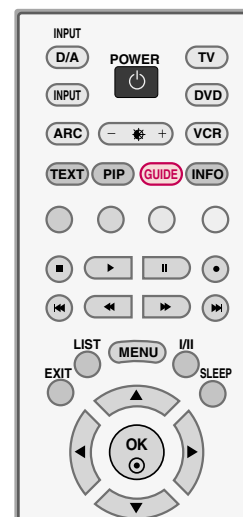
EPG (ELECTRONIC PROGRAMME GUIDE)

- In Digital Mode Only

This system has an Electronic Programme Guide (EPG) to help your navigation through all the possible viewing options.

The EPG supplies information such as programme listings, start and end times for all available services. In addition, detailed information about the programme is often available in the EPG (the availability and amount of these programme details will vary, depending on the particular broadcaster).

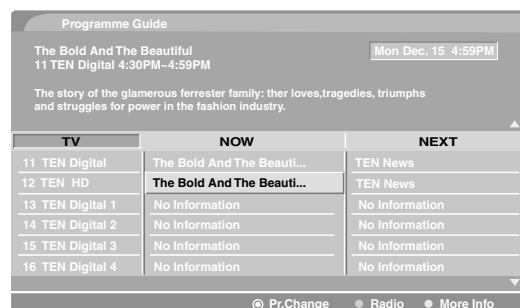
This function can be used only when the EPG information is broadcasted by broadcasting companies.



Switch on/off EPG

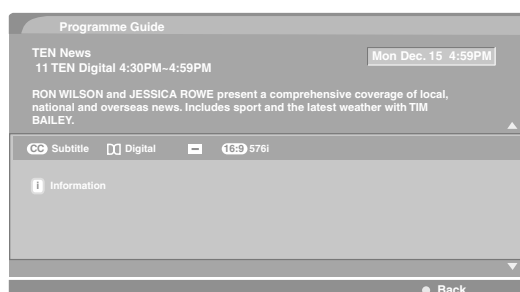
Press the **GUIDE** button to switch on EPG.

Press the **GUIDE** or **EXIT** button again to switch off EPG and return to TV viewing.



Select a programme

Press the **▲ ▼ ◀ ▶** button to select desired programme, then press the **OK** button to display the selected programme.



Remote Control Buttons	Function
RED	Shows the TV or Radio programmes
GREEN	The detail information on or off

TV MENU

ON SCREEN MENUS SELECTION AND ADJUSTMENT

Your TV's OSD (On Screen Display) may differ slightly from what is shown in this manual.
This function explains the features available on the 32/37/42LC2D*.

- 1 Press the **MENU** button and then use **▲** or **▼** button to select the each menu.
- 2 Press the **▶** button and then use **▲ ▼ ◀ ▶** button to display the available menus.

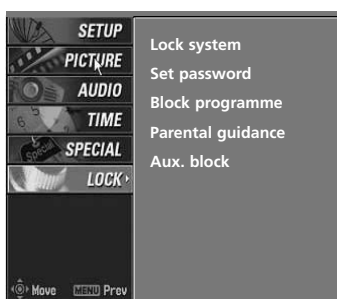
SETUP



PICTURE



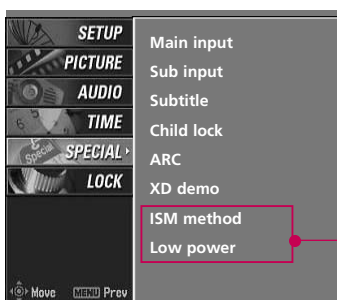
LOCK



AUDIO



SPECIAL



TIME



Only 42PC1D*, 50PC1D*, 60PC1D* models

TV MENU | SETUP(Programme)

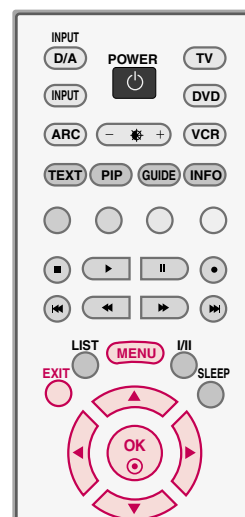
AUTO PROGRAMME TUNING

Up to 100 TV stations can be stored in this set by programme numbers (0 to 99). Once you have preset the stations, you will be able to use the **PR + / -** or **NUMBER** buttons to scan the stations you programmed. Stations can be tuned using automatic or manual modes.

A password is required to gain access to Auto programme or Manual programme menu if the Lock system is turned on.

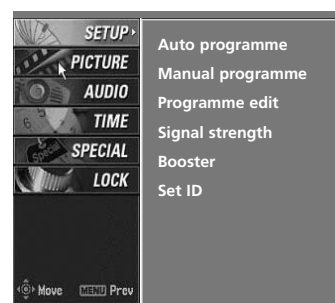
If you forgot your password, press '7', '7', '7', '7' on the remote control.

In Australia, if no station name can be assigned to a station, the programme number is assigned and stored as ----- followed by a number see 'Assigning a station name' section to assign the station name.

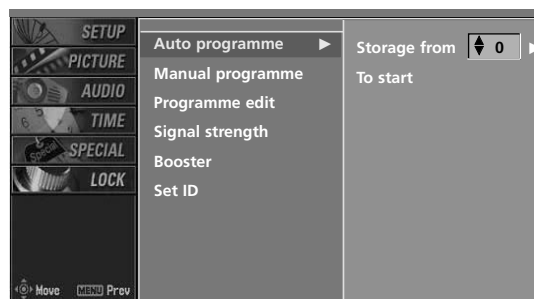


- 1 Press the **MENU** button and then **▲** or **▼** button to select the **SETUP** menu.
- 2 Press the **▶** button and then **▲** or **▼** button to select **Auto programme**.
- 3 Press the **▶** button to select **Storage from**. Select the beginning programme number with the **▲ ▼** button or **NUMBER** buttons.
- 4 Press the **▶** button to select **To start**.
- 5 Press the **OK** button to begin auto programming. All receivable stations are stored.

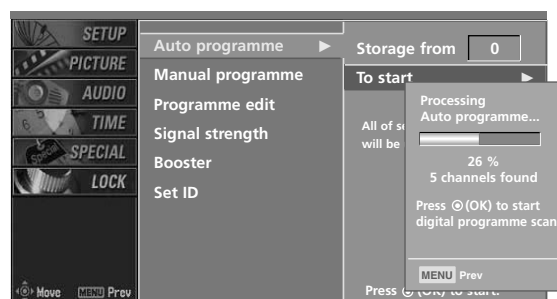
To stop auto programming, press the **OK** button. When auto programming is completed, the **Programme edit** menu appears on the screen. See the 'Programme Edit' section to edit the stored programme.
- 6 Press **EXIT** button to return to normal TV viewing.



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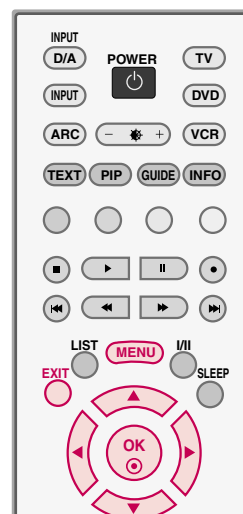


4 5

MANUAL PROGRAMME TUNING

In Digital Mode

Manual programme lets you manually add a programme to your programme list.



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

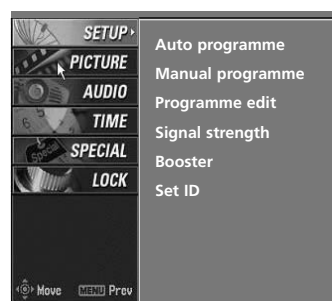
2 Press the ► button and then use ▲ or ▼ button to select **Manual programme**.

3 Press the ► button and then use ▲ or ▼ button to select the programme number you want to add.

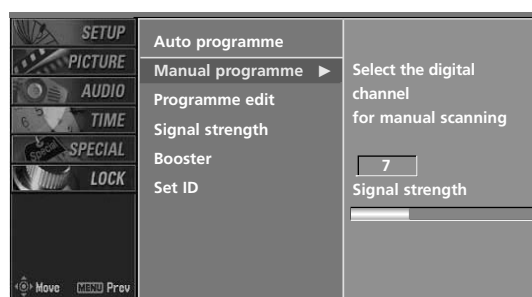
4 Press the **OK** button to store the programme. When the programme number you want to add is already added in programme list, the message **"Already programmed channel. Do you want to update?"** will appear. If you want to keep on manual programming, select YES with using ◀/▶ button. Then, press the **OK** button. Otherwise select **NO**.

When the programme is stored, the Programme edit menu appears on the screen. See the 'Programme Edit' section to edit the stored programme.

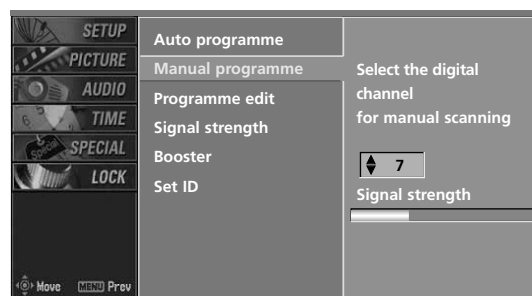
5 Press **EXIT** button to return to normal TV viewing.



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3 4

TV MENU | SETUP(Programme)

MANUAL PROGRAMME TUNING Continued

In Analogue Mode

Manual programme lets you manually tune and arrange the stations in whatever order you desire. Also you can assign a station name with five characters to each programme number.

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

2 Press the **►** button and then use **▲** or **▼** button to select **Manual programme**.

3 Press the **►** button to select **Band**. Press the **▲** or **▼** button to select **V/UHF** or **Cable** as required.

4 Press the **►** button to select **Channel**. Press the **▲** or **▼** button to select the desired channel number.

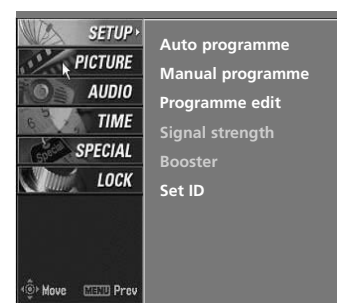
5 Press the **►** button to select **Search**. Press the **▲** or **▼** button to commence searching. If a station is found the search will stop.

6 If this station is the one required, press the **◀** or **▶** button to select **Storage**. Select the desired programme number with the **▲** or **▼** button.

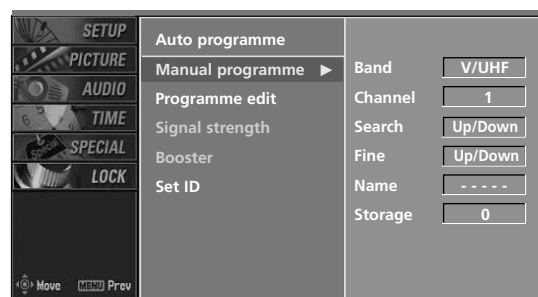
7 Press the **OK** button to store it.

8 To store another station, repeat steps 3 to 7.

9 Press **EXIT** button to return to normal TV viewing.



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3 4 5 6 7

FINE TUNING - *In Analogue Mode only*

Normally fine tuning is only necessary if reception is poor.
The finely tuned programme will be indicated by a yellow number during programme selection.



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

2 Press the ► button and then use ▲ or ▼ button select **Manual programme**.

3 Press the ► button and then ◀ or ▶ button to select **Fine**.

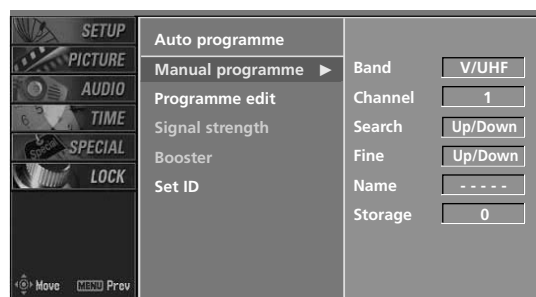
4 Press the ▲ or ▼ button to fine tune for the best picture and sound.

5 Press the **OK** button to store.

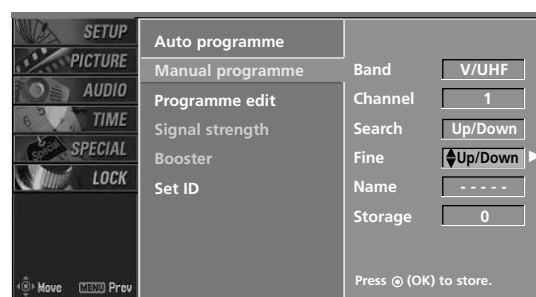
6 Press **EXIT** button to return to normal TV viewing.



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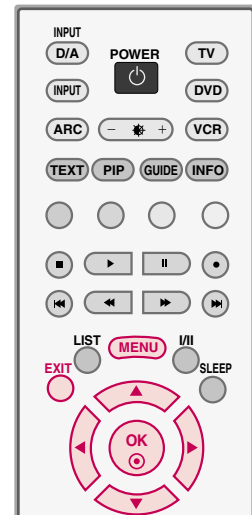


3 4 5

TV MENU | SETUP(Programme)

ASSIGNING A STATION NAME - In Analogue Mode only

You can assign a station name with the characters to each programme number.



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

2 Press the ► button and then use ▲ or ▼ button to select **Manual programme**.

3 Press the ► button and then use ◀ or ▶ button to select **Name**.

4 Press the ▲ or ▼ button. You can use the numeric 0 to 9, the alphabet A to Z +, -, and blank.

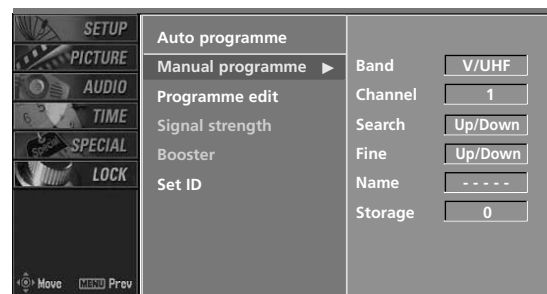
5 Press the ◀ or ▶ button to select the position and make your choice of the second character, and so on.

6 Press the **OK** button to store.

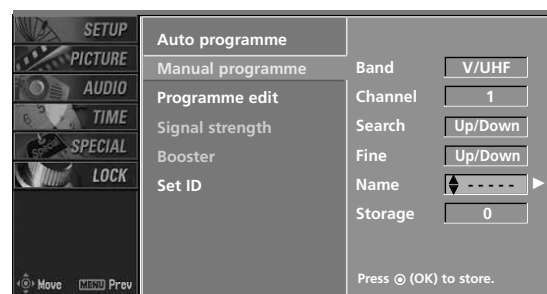
7 Press **EXIT** button to return to normal TV viewing.



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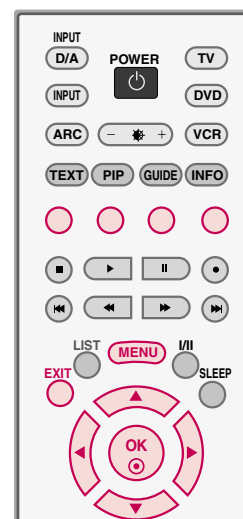
2



3 4 5

PROGRAMME EDIT

This function enables you to delete or skip the stored programmes. Also you can move some stations to other programme numbers or copy blank station data into the selected programme number.



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

2 Press the **▶** button and then use **▲** or **▼** button to select **Programme edit**.

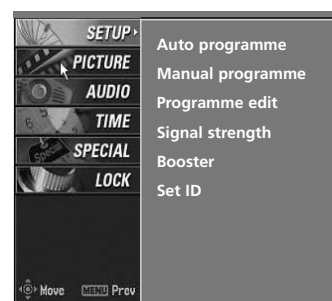
3 Press the **▶** button.

4 ■ **Deleting a programme (In Analogue Mode Only)**

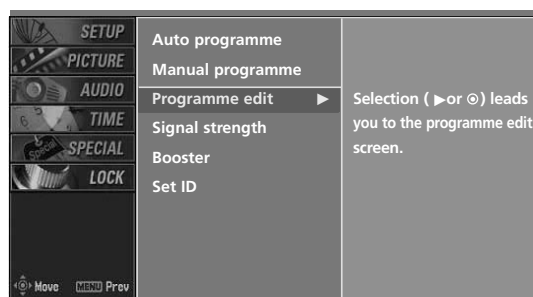
- Select a programme to be deleted with the **▲ ▼ ◀ ▶** button.
- Press the **RED** button twice. The selected programme is deleted, all the following programmes are shifted up one position.

■ **Copying a programme (In Analogue Mode Only)**

- Select a programme to be copied with the **▲ ▼ ◀ ▶** button.
- Press the **GREEN** button.
- Move the programme to the desired programme number with the **▲ ▼ ◀ ▶** button.
- Press the **GREEN** button again to copy the programme. All the following programmes are shifted down one position.



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3 4 5

TV MENU | SETUP(Programme)

■ Moving a programme (In Analogue Mode Only)

- Select a programme to be moved with **▲ ▼ ◀ ▶** button.
- Press the **YELLOW** button.
- Move the programme to the desired programme number with the **▲ ▼ ◀ ▶** button.
- Press the **YELLOW** button again to release this function.

■ Skipping a programme number

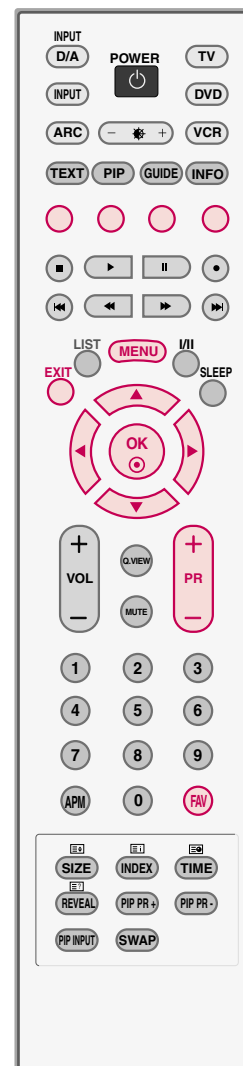
- Select a programme number to be skipped with **▲ ▼ ◀ ▶** button.
- Press the **BLUE** button. The skipped programme number turns to blue.
- Press the **BLUE** button again to release the skipped programme.

When a programme number is skipped it means that you will be unable to select it using the **PR+ / -** button during normal TV viewing. If you want to select the skipped programme, directly enter the programme number with the **NUMBER** buttons or select it in the programme edit or table menu.

■ Selecting Favourite Programme

- Select your favourite programme number with **▲ ▼ ◀ ▶** button and then press the **FAV** button. It will automatically include the selected programme into your favourite programmes list and a heartmark will appear in front of that programme number. You can store up to 10 programmes.

- Repeatedly press the **FAV** button to select stored favourite programmes in normal TV viewing.



CALLING UP THE PROGRAMME TABLE

You can check the programmes stored in the memory by displaying the programme list.

Displaying programme list

- Press the **LIST** button to display the Programme table menu.
The programme table appears on the screen.

! NOTE

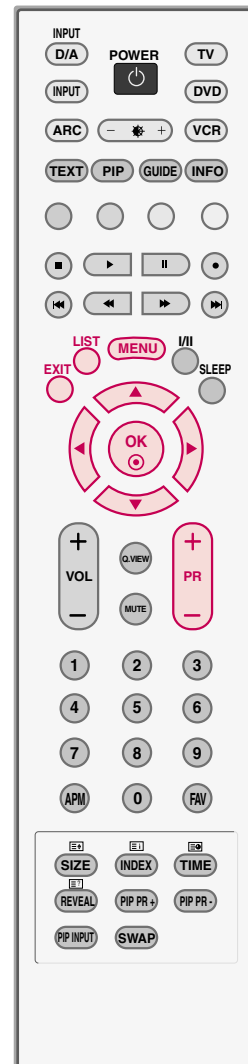
- ▶ You may find some blue programmes.
They have been set up to be skipped by auto programming or in the programme edit mode.
- ▶ Some programmes with the channel number shown in the programme LIST indicate there is no station name assigned.

Selecting a programme in the programme table

- 1 Select a programme with the **▲ ▼ ◀ ▶** button.
- 2 The set switches to the chosen programme number.

Paging through a programme table

- 1 Press the **PR+ / -** button to changes current page into previous/next page.
- 2 Press the **LIST** button to return to normal TV viewing.



TV MENU | SETUP(Programme)

DIGITAL SIGNAL STRENGTH - *In Digital Mode only*

Reveals how strong your DTV signal is and whether you need to adjust your antenna.

The higher the signal strength, the less likely you are to experience picture degradation.

Digital TV Signals; May not be available in all areas, nor broadcast all programmes.



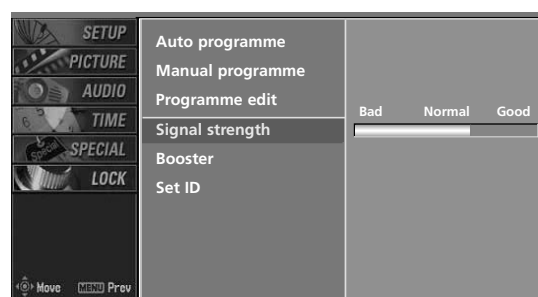
1 Press the **MENU** button and then use **▲** or **▼** button to select the **SETUP** menu.

2 Press the **▶** button and then use **▲** or **▼** button to select **Signal strength**.

3 View the on-screen signal strength monitor to see the strength of the signal being received.



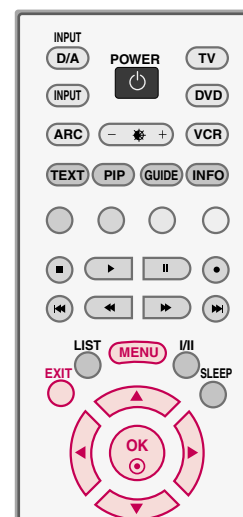
1



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BOOSTER - In Digital Mode only

If the reception is poor at the fringed area of TV signal, select **Booster** to **On**. When the picture condition is good, do not select **Booster** to **On**.



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

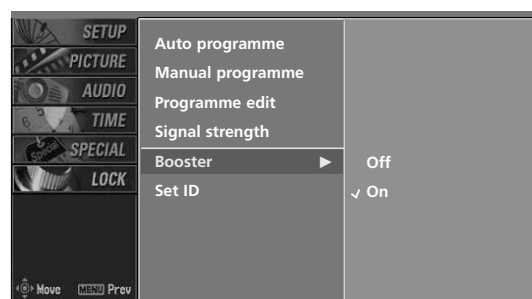
2 Press the ► button and then use ▲ or ▼ button to select **Booster**.

3 Press the ► button and then use ▲ or ▼ button to select **Off** or **On**.

4 Press **EXIT** button to return to normal TV viewing.



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TV MENU / SETUP (PROGRAMME)

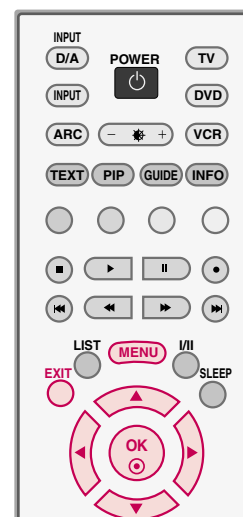
TV MENU | PICTURE ADJUSTMENT

PICTURE STATUS MEMORY (PSM)

This function adjusts the set to the best picture appearance.

When adjusting picture options (contrast, brightness, colour, sharpness and tint) manually, PSM is automatically changed to User.

Picture options Dynamic, Standard, and Mild are preset and programmed for good picture quality at the factory and cannot be changed.

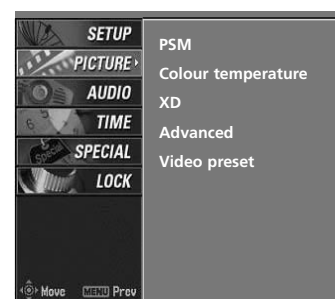


1 Press the **MENU** button and then use ▲ or ▼ button to select the **PICTURE** menu.

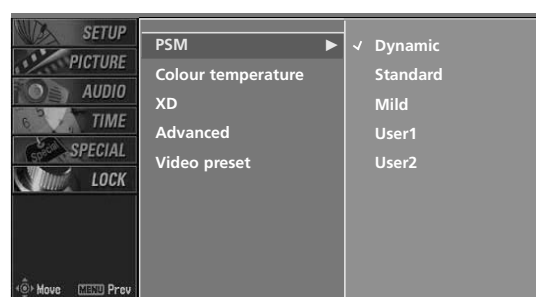
2 Press the ► button and then use ▲ or ▼ button to select **PSM**.

3 Press the ► button and then use ▲ or ▼ button to select **Dynamic, Standard, Mild, User1, or User2**.

4 Press **EXIT** button to return to normal TV viewing.



1



2 3

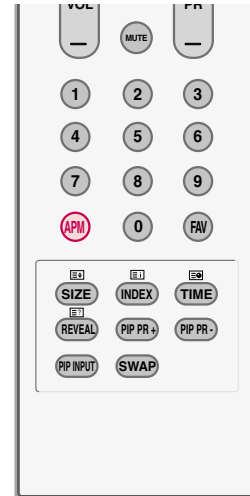
ADAPTIVE PICTURE MODE (APM)

Allows you to select your preferred picture mode after comparing the four different picture (Dynamic, Standard, Mild, and User1 (or User2)) settings.

- 1 Press the **APM** button at once. The screen is divided to 4-split.
- 2 Use the **▲ ▼ ◀ ▶** button to navigate 4 screen. By pressing the **OK** button, you can select the desired mode.

! NOTE

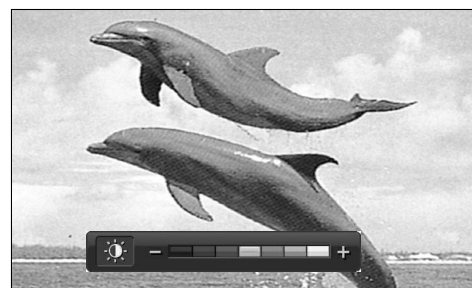
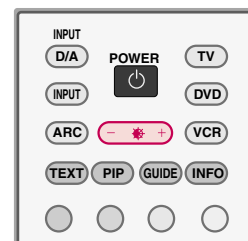
- ▶ While operating the 4-split, any button except **POWER, APM, OK, EXIT, ▲ ▼ ◀ ▶, VOLUME ▲ ▼, MUTE** button on the remote control are not usable.
- ▶ APM screen will automatically disappear after approx. 40 seconds unless a button is pressed.



BRIGHTNESS ADJUSTMENT

Adjust the brightness with using this button on the remote control.

- 1 Press the **⊖ ⊛ ⊕** button.
- 2 Adjust the desired screen brightness.



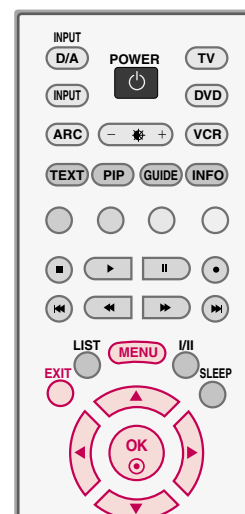
TV MENU | PICTURE ADJUSTMENT

MANUAL PICTURE CONTROL (PSM-User option)

You can adjust picture Contrast, Brightness, Colour, Sharpness, and Tint options to the levels you prefer.

In NTSC AV, Component 60Hz, RGB-DTV 60Hz, HDMI/DVI-DTV 60Hz, RGB-PC, HDMI/DVI-PC mode, Tint is available.

The adjustment for PICTURE menu (Contrast, Brightness, Colour, Sharpness, and Tint) affect both the main and sub picture in PIP or Twin Picture mode.



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

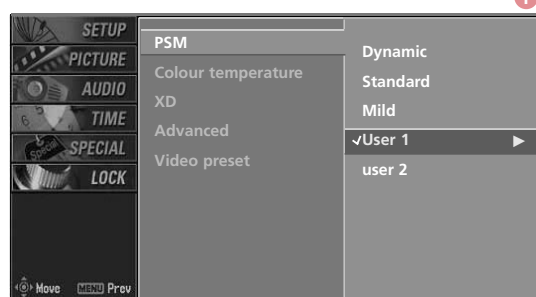
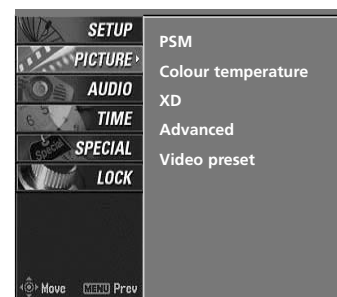
2 Press the **▶** button and then use **▲** or **▼** button to select **PSM**.

3 Press the **▶** button and then use **▲** or **▼** button to select **User 1** or **User 2**.

4 Press the **▶** button and then use **▲** or **▼** button to select the desired picture option (**Contrast**, **Brightness**, **Colour**, **Sharpness**, or **Tint**).

5 Press the **▶** button and then use **◀** or **▶** button to make appropriate adjustments.

6 Press **EXIT** button to return to normal TV viewing.



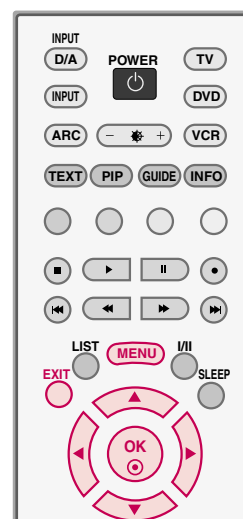
XD

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

When selecting PSM options (Dynamic, Standard and Mild), XD is automatically change to Auto.

But when selecting PSM options (User 1 and User 2), you can choose the Auto / Manual.

When selecting the Manual, you can adjust the XD contrast, XD colour and XD noise.



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

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

3 Press the ► button and then use ▲ or ▼ button to select **Auto** or **Manual**.



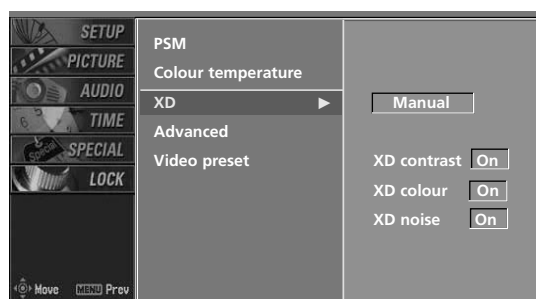
1

Selecting the Manual

1. Press the ► button and then use ◀ or ▶ button to select **XD contrast**, **XD colour** or **XD noise**.

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

2. Use the ▲ or ▼ button to select **On** or **Off**.



2 3

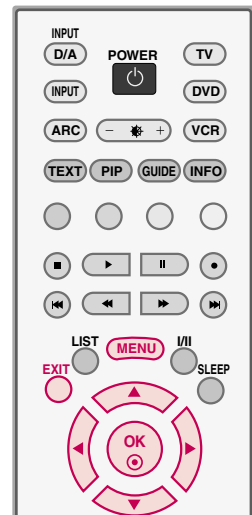
4 Press **EXIT** button to return to normal TV viewing.

TV MENU | PICTURE ADJUSTMENT

COLOUR TEMPERATURE CONTROL

Auto Colour Temperature Control

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 use ▲ or ▼ button to select the **PICTURE** menu.

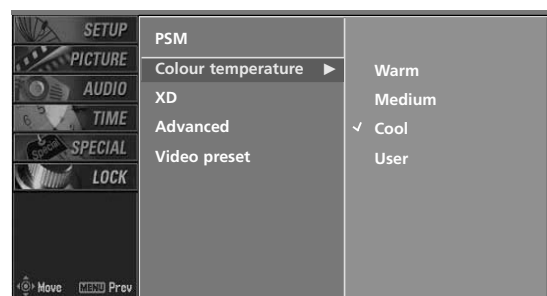
2 Press the ► button and then use ▲ or ▼ button to select **Colour temperature**.

3 Press the ► button and then use ▲ or ▼ button to select either **Warm**, **Medium**, **Cool**, or **User**.

4 Press **EXIT** button to return to normal TV viewing.



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Manual Colour Temperature Control

You can also adjust the detailed settings (Red, Green, Blue) by selecting the **User** menu.

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

2 Press the ► button and then use ▲ or ▼ button to select **Colour temperature**.

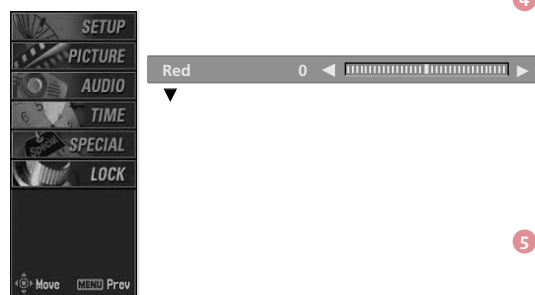
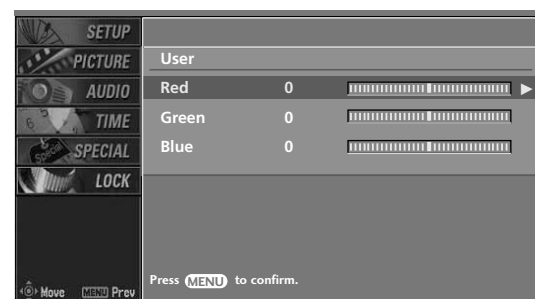
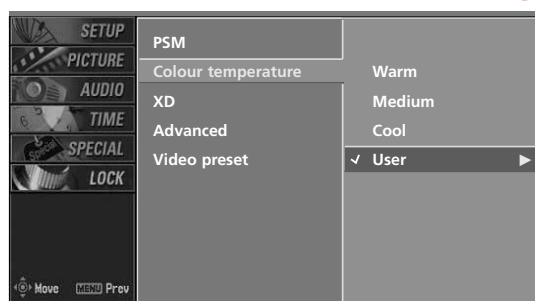
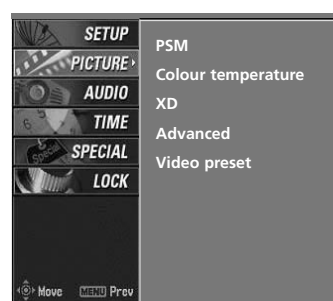
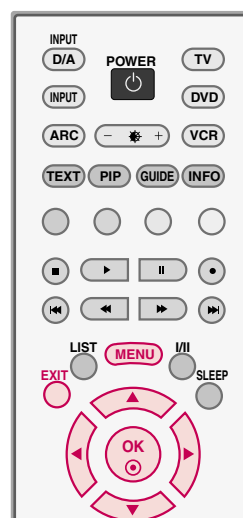
3 Press the ► button and then use ▲ or ▼ button to select **User**.

4 Press the ► button and then use ▲ or ▼ button to select **Red, Green, or Blue**.

5 Press the ► button and then use ◀ or ▶ button to make appropriate adjustments.

- The adjustment range of **Red, Green, or Blue** is -20~ +20.

6 Press **EXIT** button to return to normal TV viewing.

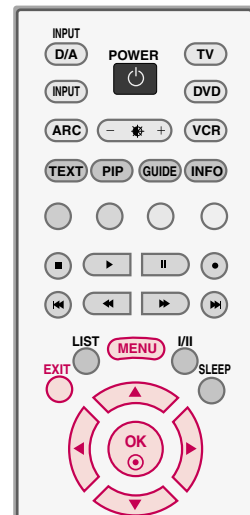


TV MENU | PICTURE ADJUSTMENT

ADVANCED-CINEMA

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

This feature operates only in AV1, AV2, and Component480i mode.



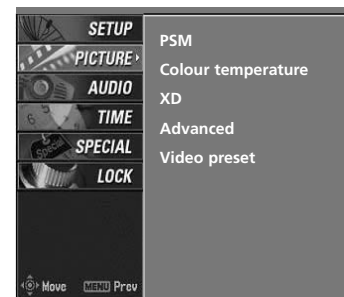
1 Press the **MENU** button and then use ▲ or ▼ button to select the **PICTURE** menu.

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

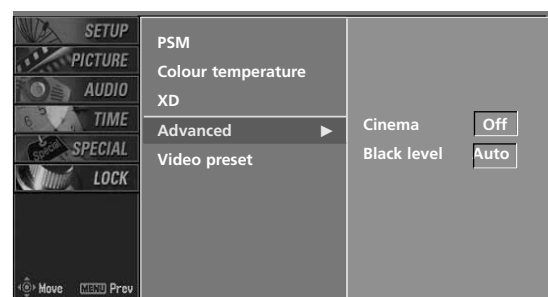
3 Press the ► button and then use ▲ or ▼ button to select **Cinema**.

4 Press the ► button and then use ▲ or ▼ button to select **On** or **Off**.

5 Press **EXIT** button to return to normal TV viewing.



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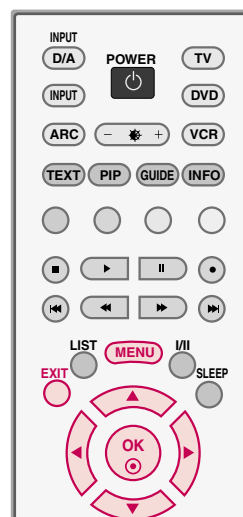


2 3 4

ADVANCED-BLACK LEVEL

Adjusting the contrast and the brightness of the screen using the black level of the screen.

This feature operates only in AV1, AV2, or HDMI/DVI mode.



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

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

3 Press the ► button and then use ▲ or ▼ button to select **Black Level**.

4 Press the ► button and then use ▲ or ▼ button to select **Auto**, **Low**, or **High**.

■ **Auto**

Realizing the black level of the screen and set it to High or Low automatically.

■ **Low**

The reflection of the screen gets darker.

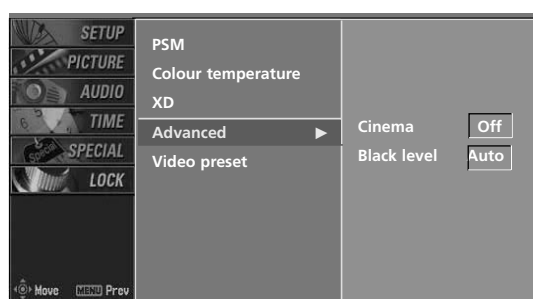
■ **High**

The reflection of the screen gets brighter.

5 Press **EXIT** button to return to normal TV viewing.



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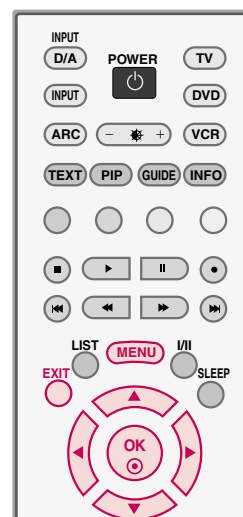


2 3 4

TV MENU | PICTURE ADJUSTMENT

VIDEO PRESET

Use to quickly reset all the Picture menu options to their original factory preset values.



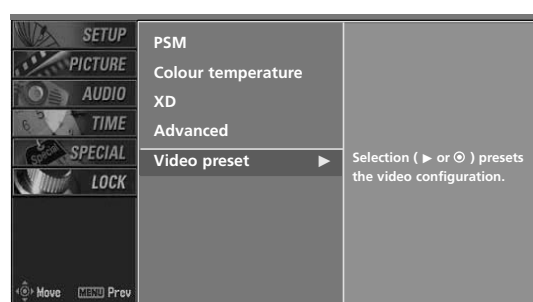
1 Press the **MENU** button and then use ▲ or ▼ button to select the **PICTURE** menu.

2 Press the ► button and then use ▲ or ▼ button to select **Video preset**.

3 Press the ► button to reset the picture menu options to original values.



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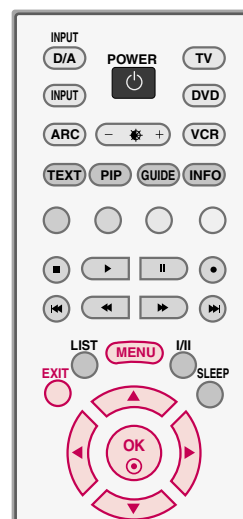
TV MENU | AUDIO ADJUSTMENT

SOUND STATUS MEMORY (SSM)

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

When adjusting sound options (treble and bass) manually, SSM is automatically changed to User.

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

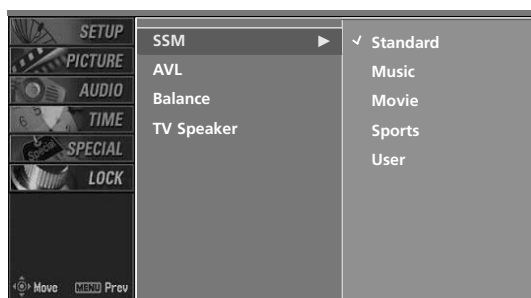


1 Press the **MENU** button and then use ▲ or ▼ button to select the **AUDIO** menu.

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

3 Press the ► button and then use ▲ or ▼ button to select **Standard**, **Music**, **Movie**, **Sports**, or **User**.

4 Press **EXIT** button to return to normal TV viewing.



3

TV MENU | AUDIO ADJUSTMENT

MANUAL SOUND CONTROL (SSM-User option)

Adjust the sound to suit your taste and room situations.



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

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

3 Press the ► button and then use ▲ or ▼ button to select **User**.

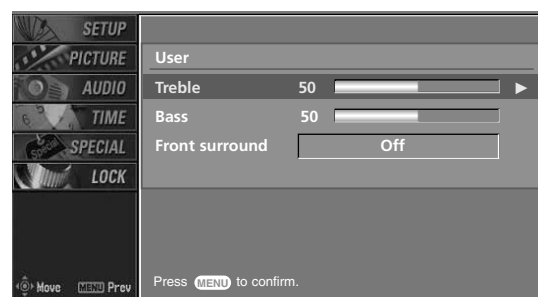
4 Press the ► button and then use ▲ or ▼ button to select the desired sound option (**Treble**, **Bass**, or **Front surround**).



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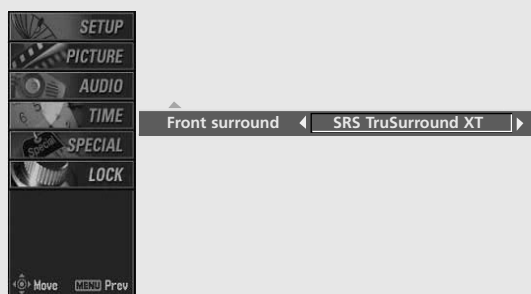


4

- 5 Press the ► button and then use ◀ or ▶ button to make appropriate adjustments.

Selecting the Front surround

Press the ► button and then use ◀ or ▶ button to select **Off** or **SRS**(Sound Retrieval System)**TruSurround XT**.



- 6 Press **EXIT** button to return to normal TV viewing.

SRS TruSurround XT

Takes advantage of any multi-channel format without needing to add extra speakers or equipment. Dialog clarity, bass enrichment, and the addition of stereo audio enhancement produces an immersive sound experience from standard stereo material.

TV MENU | AUDIO ADJUSTMENT

AUTO VOLUME LEVeller (AVL)

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



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

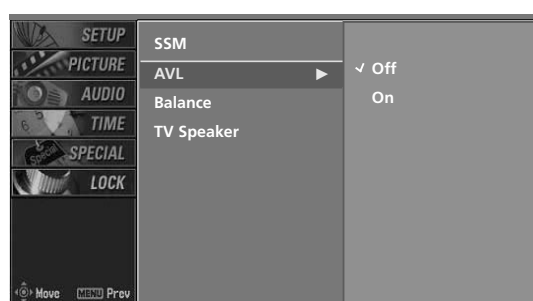
2 Press the ► button and then use ▲ or ▼ button to select **AVL**

3 Press the ► button and then use ▲ or ▼ button to select **Off** or **On**.

4 Press **EXIT** button to return to normal TV viewing.



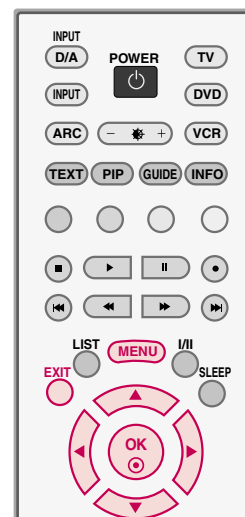
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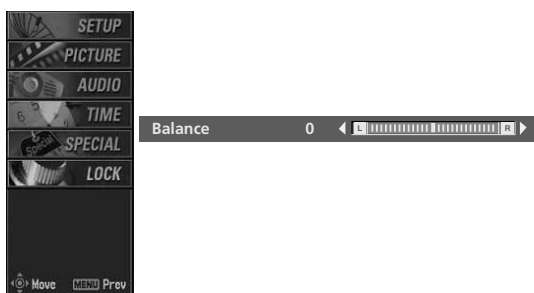
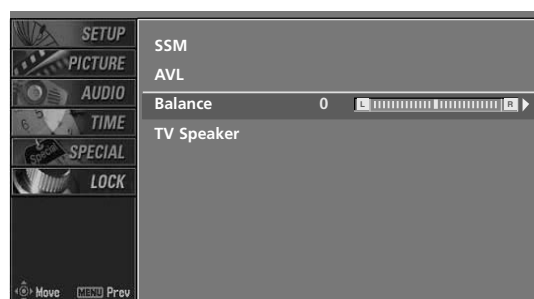
2 3

BALANCE

Adjust the left/right sound of speaker to suit your taste and room situations.



- 1 Press the **MENU** button and then use ▲ or ▼ button to select the **AUDIO** menu.
- 2 Press the ► button and then use ▲ or ▼ button to select **Balance**.
- 3 Press the ► button and then use ◀ or ▶ button to make appropriate adjustments.
- 4 Press **EXIT** button to return to normal TV viewing.



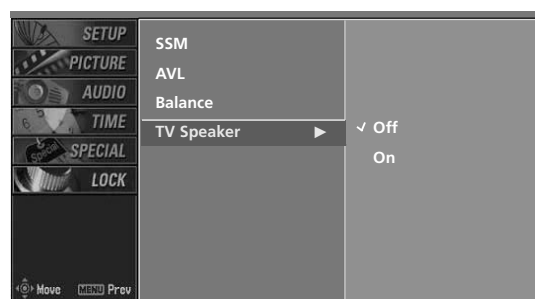
TV MENU | AUDIO ADJUSTMENT

TV SPEAKERS ON/OFF SETUP

Turn the TV speakers off if using external audio equipment.
In AV1-2, Component1-2, RGB PC/DTV and HDMI/DVI mode, the audio signal can be outputted even though there is no video signal.



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



STEREO RECEPTION - *In Analogue Mode only*

■ Mono sound selection

If the stereo signal is weak in stereo reception, you can switch to mono by pressing the **I/II** button twice. In mono reception, the depth of sound is improved. To switch back to stereo, press the **I/II** button twice again.

Broadcast	On Screen Display
Mono	MONO
Stereo	MONO / STEREO

SOUND OUTPUT SELECTION

In AV 1-2, Component 1-2, RGB-PC/DTV or HDMI/DVI mode, you can select output sound for the left and right loudspeakers.

Repeatedly press the **I/II** button to select the sound output.

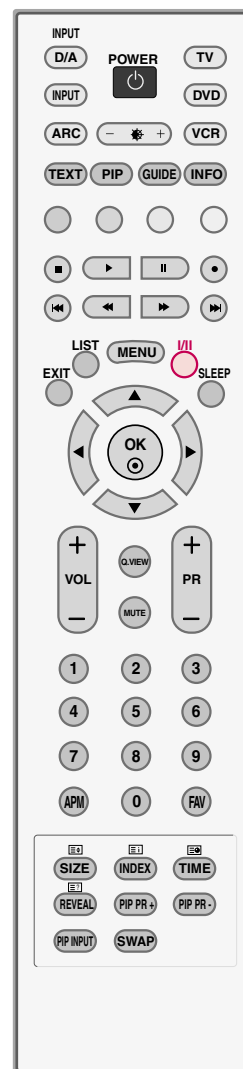
L+R: Audio signal from audio L input is sent to the left loud speaker and audio signal from audio R input is sent to the right loud speaker.

L+L: Audio signal from audio L input is sent to left and right loud speakers.

R+R: Audio signal from audio R input is sent to left and right loud speakers.

! NOTE

- ▶ In digital mode, repeatedly press the **I/II** button to change the audio mode (MPEG or DOLBY DIGITAL).



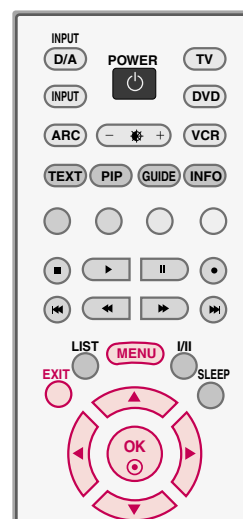
TV MENU | TIME SETTING

AUTO CLOCK SETUP

The time is automatically set from a digital channel signal.

The digital channel signal includes information for the current time provided by the broadcasting station.

Set the clock manually, if the current time is set incorrectly by the auto clock function.



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

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

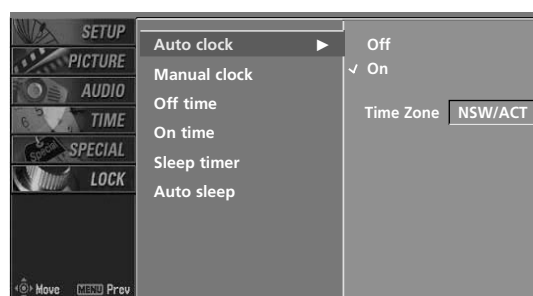
- 3 Press the ► button and then use ▲ or ▼ button to select **On**.

- 4 Press the ► button and then use ▲ or ▼ button to select your viewing area time zone:
NSW/ACT, NT, TAS, WA, SA, QLD, or VIC.

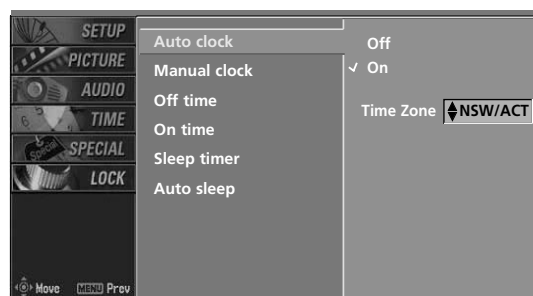
- 5 Press **EXIT** button to return to normal TV viewing.



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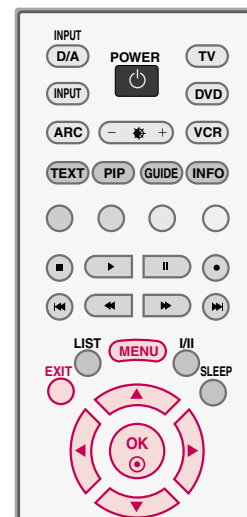
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MANUAL CLOCK SETUP

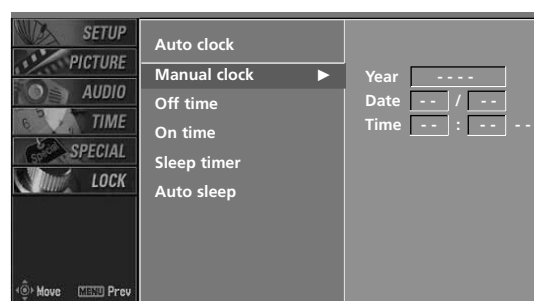
If the current time setting is wrong, reset the clock manually.



- 1 Press the **MENU** button and then use ▲ or ▼ button to select the **TIME** menu.
- 2 Press the ► button and then use ▲ or ▼ button to select **Manual clock**.
- 3 Press the ► button and then use ◀ or ▶ to select either the year, date, or time option. Once selected, use the ▲ or ▼ button to set the year, date, and time options.
- 4 Press **EXIT** button to return to normal TV viewing.



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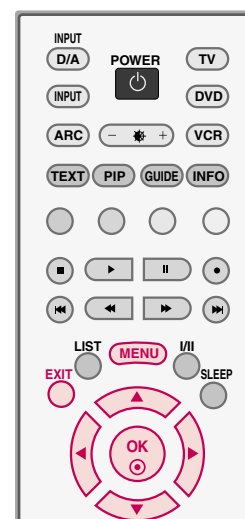
TV MENU | TIME SETTING

ON/OFF TIME SETUP

The time function operates only if the current time has been set.

The Off-Time function overrides the On-Time function if they are both set to the same time.

The TV must be in standby mode for the On-Time to work. If you do not press any button within 2 hours after the TV turns on with the On Time function, the TV will automatically revert to standby mode.



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

- 2 Press the ► button and then use ▲ or ▼ button to select **Off Time** or **On Time**.

- 3 Press the ► button and then use ▲ or ▼ button to select **On**.
 - To cancel the **On/Off time** function, select **Off**.

- 4 Press the ► button and then use ▲ or ▼ button to set the hour.

- 5 Press the ► button and then use ▲ or ▼ button to set the minutes.

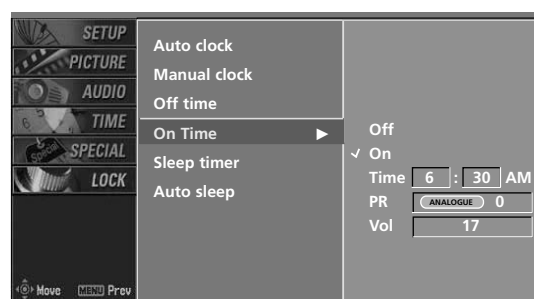
- 6 **Only On time**
Press the ► button and then use ▲ or ▼ to select the programme at turn-on.

Press the ► button and then use ▲ or ▼ to set the sound level at turn-on.

- 7 Press **EXIT** button to return to normal TV viewing.



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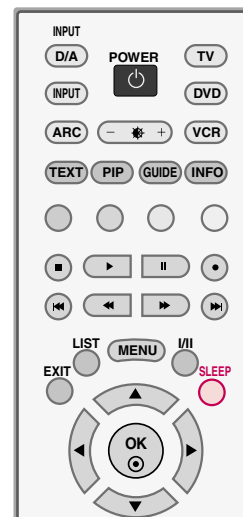


2 3 4 5 6

SLEEP TIMER

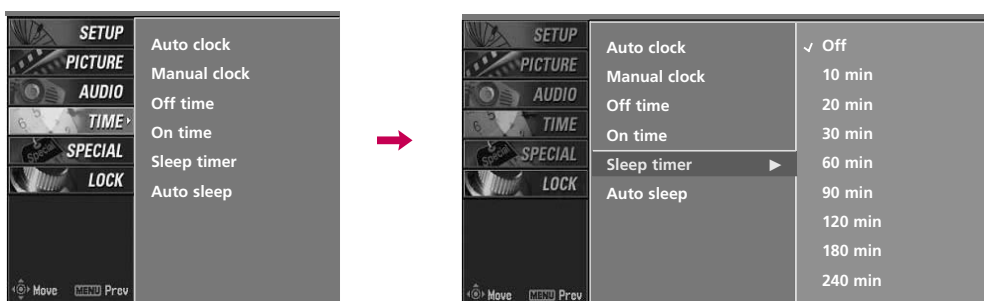
You don't have to remember to switch the set off before you go to sleep.

The sleep timer automatically switches the set to standby after the preset time has elapsed.



- 1 Press the **SLEEP** button repeatedly to select the number of minutes. First the **Off** option appears on the screen, followed by the following sleep timer options : 10, 20, 30, 60, 90, 120, 180, and 240 minutes.
- 2 When the number of minutes you want is displayed on the screen, press the **SLEEP** button. The timer begins to count down from the number of minutes selected.
- 3 To check the remaining minutes before the TV turns off, press the **SLEEP** button once.
- 4 To cancel the Sleep Timer, press the **SLEEP** button repeatedly to select **Off**.
- 5 When you switch the set off, the set release the preset sleep time.

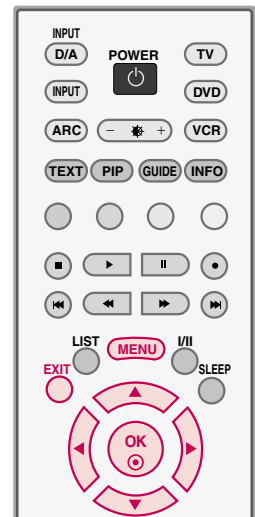
■ You can also set up the Sleep timer in the TIME menu.



TV MENU | TIME SETTING

AUTO SLEEP

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 use ▲ or ▼ button to select the **TIME** menu.

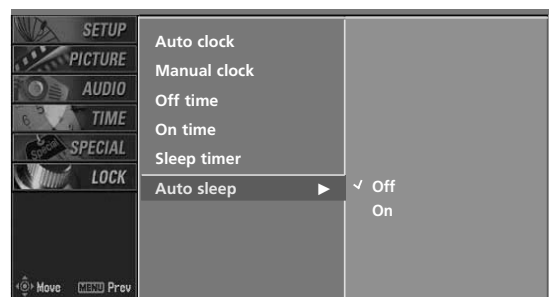
2 Press the ► button and then use ▲ or ▼ button to select **Auto sleep**.

3 Press the ► button and then use ▲ or ▼ button to select **Off** or **On**.

4 Press **EXIT** button to return to normal TV viewing.



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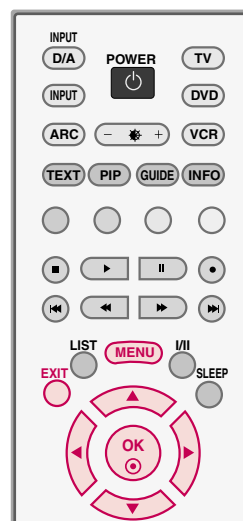
2 3

TV MENU | OPTIONAL FEATURES

MAIN PICTURE SOURCE SELECTION

Alternatively you can select the Digital, Analogue, AV1-2, Component 1-2, RGB-PC (or RGB-DTV) or HDMI/DVI mode by pressing the **INPUT** button.

Press the **D/A INPUT** button to select digital or analogue mode.

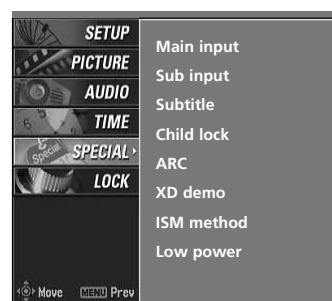


1 Press the **MENU** button and then use ▲ or ▼ button to select the **SPECIAL** menu.

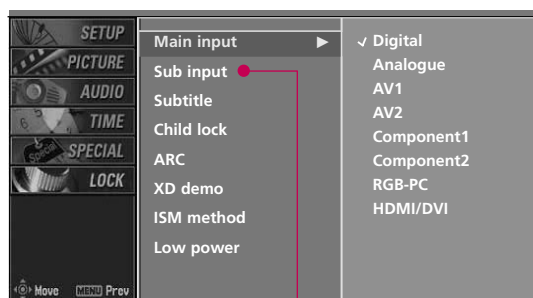
2 Press the ► button and then use ▲ or ▼ button to select **Main input**.

3 Press the ► button and then use ▲ or ▼ to select Digital, Analogue, AV 1 , AV 2 , Component 1, Component 2, RGB-PC, RGB-DTV, or HDMI/DVI.
■ To toggle RGB-DTV and RGB-PC, select RGB-DTV(or RGB-PC) and press ► button.

4 Press **EXIT** button to return to normal TV viewing.



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2 3

Sub Picture Source Selection

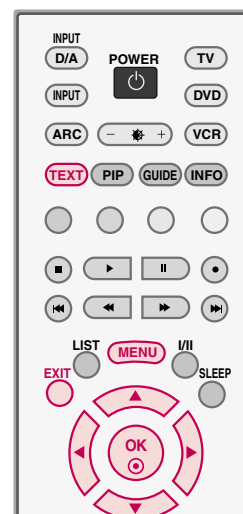
Select sources for the **Sub Input** in the **SPECIAL** menu.

See Page 37 for selecting the input source for the sub picture by pressing the **PIP INPUT** button.

TV MENU | OPTIONAL FEATURES

SUBTITLE - *In Digital Mode only*

You can select Subtitle on or off with the **TEXT** button in DTV mode.



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

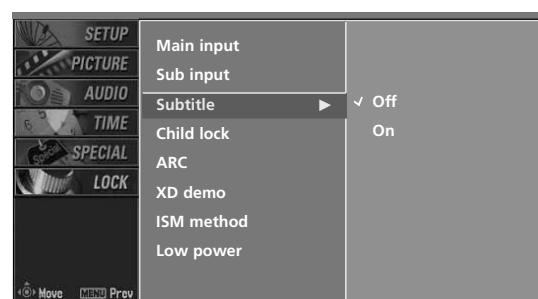
2 Press the ► button and then use ▲ or ▼ button to select **Subtitle**.

3 Press the ► button and then use ▲ or ▼ button to select **Off** or **On**.

4 Press **EXIT** button to return to normal TV viewing.



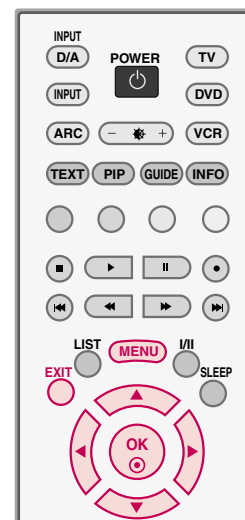
1



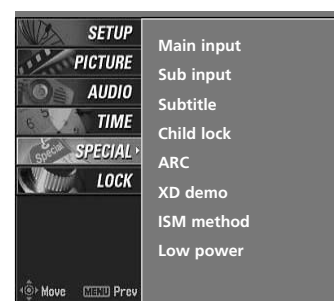
2 3

CHILD LOCK

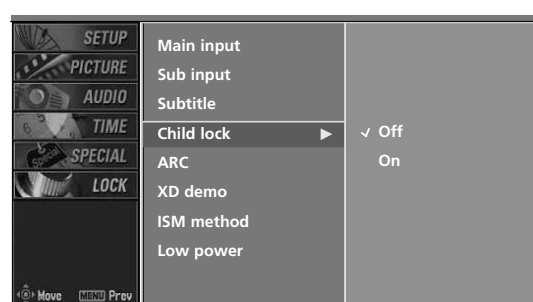
The TV can be set so that the remote control is needed to control it. This feature can be used to prevent unauthorized viewing.



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



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! NOTE

- ▶ With the lock on, the display 'Child lock : On' appears on the screen if any button on the front panel is pressed while viewing the TV.
- ▶ The display 'Child lock : On' will not appear on the screen if any button on the front panel is pressed while displaying the menus.

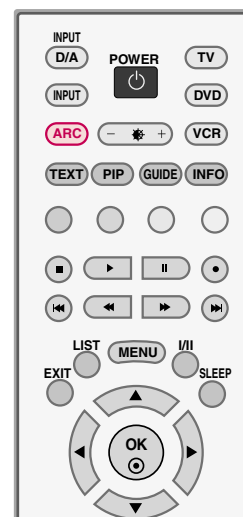
TV MENU | OPTIONAL FEATURES

PICTURE FORMAT

You can watch TV in various picture formats; Auto, 4:3, 16:9 (Wide), 14:9, Zoom and Cinema zoom.

! NOTE

- ▶ If a fixed image is displayed on the screen for a long time, it image may become imprinted on the screen and remain visible. This phenomenon is common to all manufactures and in consequence the manufactures warranty does not cover the product bearing this phenomenon.



- 1 Press the **ARC** button repeatedly to select the desired picture format.

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

Auto

Selects the proper picture proportion to match the source's image. (4:3 → 4:3, 16:9 → 16:9)

4:3

Choose 4:3 when you want to view a picture with an original 4:3 aspect ratio.

16:9

Adjust the picture horizontally, in a linear proportion to fill the entire screen.

14:9

The screen size is, more enlarged at both sides, to create a spectacular view.

You can move the 14:9 screen using ▲ or ▼ button. The adjustment range is -10 - +10.

Zoom

Choose Zoom when you want to view the picture without any alteration. However, the top and bottom portions of the picture will be cropped.

You can move the Zoom screen using ▲ or ▼ button. The adjustment range is -16 - +16.

Cinema Zoom

Choose Cinema Zoom when you want to enlarge the picture in correct proportion. Note: When enlarging or reducing the picture, the image may become distorted.

You can adjust the enlarge proportion of Cinema Zoom using ▲ or ▼ button.

The adjustment range is 1-16.

! NOTE

- ▶ In HDMI/DVI-PC and RGB-PC mode, 4:3 and 16:9 is available.
- ▶ Auto: When your TV receives the wide screen signal, it will be automatically changed to the picture format to be sent. (Not available in all countries)

XD DEMO

Allows you to select your preferred picture mode after comparing the four different picture (Dynamic, Standard, Mild, and User1 (or User2)) settings.



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

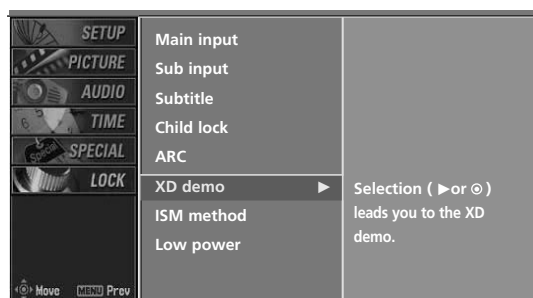
2 Press the ► button and then use ▲ or ▼ button to select **XD demo**.

3 Press the ► button to start **XD demo**.

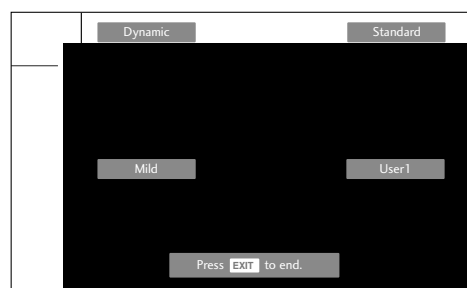
4 Press **EXIT** button to stop XD demo.



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TV MENU / OPTIONAL FEATURES

TV MENU | OPTIONAL FEATURES

ISM (Image Sticking Minimization) METHOD

- 42PC1D*, 50PC1D*, 60PC1D*only

A frozen still picture from a PC/video game displayed on the screen for prolonged periods will result in a ghost image. Use our unique method to minimize any fixed image on the screen.

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

2 Press the **▶** button and then use **▲** or **▼** button to select **ISM method**.

3 Press the **▶** button and then use **▲** or **▼** button to select either **Normal**, **White wash**, **Orbiter** or **Inversion**.

■ Normal

If image sticking is never a problem, ISM is not necessary - set to Normal.

■ 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 image will move once per 2 minutes.

■ Inversion

Inversion will automatically invert the plasma display panel color every 30 minutes.

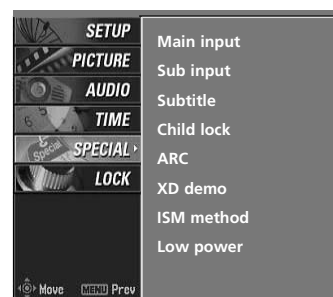
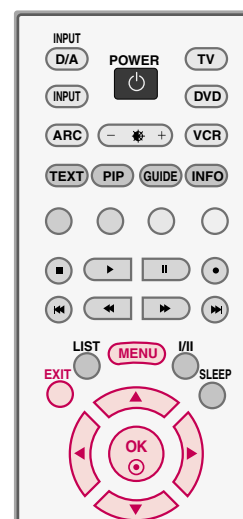
■ White wash

White Wash removes permanent images from the screen.

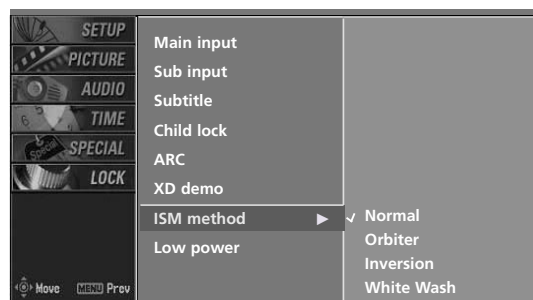
! NOTE

- ▶ An excessive permanent image may be impossible to clear entirely with White Wash. To return to normal viewing, press any button.

4 Press **EXIT** button to return to normal TV viewing.



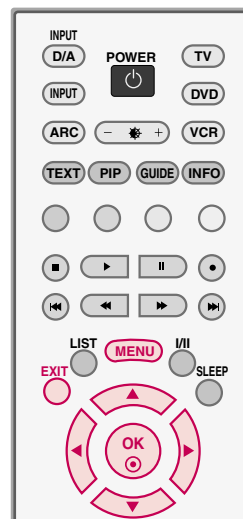
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LOW POWER - 42PC1D*, 50PC1D*, 60PC1D*only

Low power reduces the plasma display power consumption.



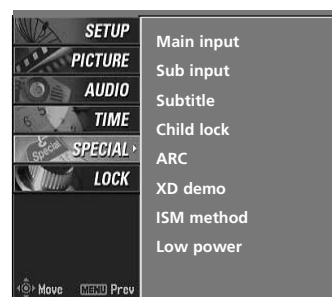
1 Press the **MENU** button and then use ▲ or ▼ button to select the **SPECIAL** menu.

2 Press the ► button and then use ▲ or ▼ button to select **Low power**.

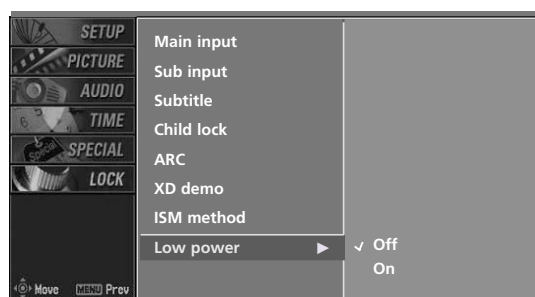
3 Press the ► button and then use ▲ or ▼ button to select **Off** or **On**.

■ When you select **On**, the screen darkens.

4 Press **EXIT** button to return to normal TV viewing.



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TV MENU / OPTIONAL FEATURES

TV MENU | LOCK ADJUSTMENT

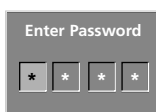
SETTING UP YOUR PASSWORD

Set up blocking schemes to block specific channels, ratings, and external viewing sources.

A password is required to gain access to this menu.

- 1 Press the **MENU** button and then use the **▲** or **▼** button to select the **LOCK** menu. Then, press the **►** button.

- Enter the password as requested.
- The TV is set up with the initial password "0-0-0-0".



LOCK SYSTEM

Enables or disables the blocking scheme you set up previously.

- 1 After inputting the password, use the **▲** or **▼** button to choose **Lock system**.

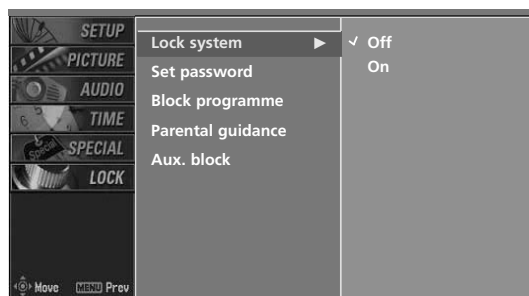
- 2 Press the **►** button and then use the **▲** or **▼** button to select **On** or **Off**.

- When you select **On**, the Lock System is enable.

- 3 Press **EXIT** button to return to normal TV viewing.



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SET PASSWORD

Change the password by inputting a new password twice.

- 1 After inputting the password, use the ▲ or ▼ button to choose **Set password**.

- 2 Press the ► button and then choose any 4 digits for your new password next to New.

As soon as the 4 digits are entered, re-enter the same 4 digits on the **Confirm**.

The new password is memorized.

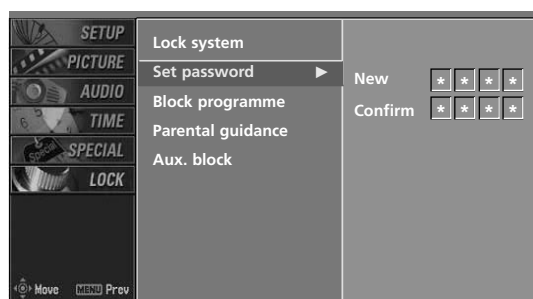
- 3 Press **EXIT** button to return to normal TV viewing.

! NOTE

- If you ever forget your password, key in '7', '7', '7', '7' on the remote control.



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TV MENU | LOCK ADJUSTMENT

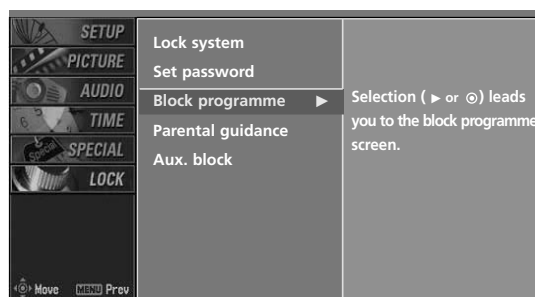
BLOCK PROGRAMME

Select a channel number that you wish to block.

- 1 After inputting the password, use the ▲ or ▼ button to choose **Block programme**.
- 2 Press the ► button. You will now see a screen filled with channel numbers and a preview picture.
- 3 Use ▲ ▼ ◀ ▶ button to select a channel and then use the **OK** button to block or unblock it.
- 4 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



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PARENTAL GUIDANCE - In Digital Mode only

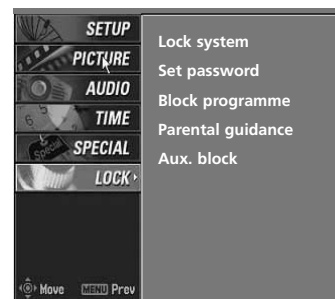
Prevents children from watching certain children's TV programs, according to the ratings limit set.

1 After inputting the password, use the ▲ or ▼ button to choose **Parental guidance**.

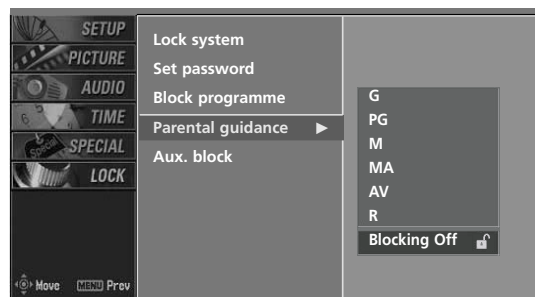
2 Press the ► button and then use the ▲ or ▼ to select **G**, **PG**, **M**, **MA**, **AV** or **R**.

- G (General audience)
- PG (Parental guidance suggested)
- M (Mature audiences)
- MA (Mature adult audiences)
- AV (Adult audiences)
- R (Restricted)
- Blocking Off (Permits all programs)

3 Press **EXIT** button to return to normal TV viewing.



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AUX. BLOCK

Enables you to select a source to block from the external source devices you have hooked up.

1 After inputting the password, use the ▲ or ▼ button to choose **Aux. block**.

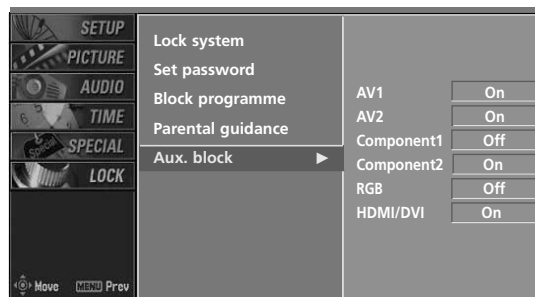
2 Press the ► button and then use the ◀ or ▶ button to select a source.

3 Press the ► button and then use the ▲ or ▼ button to select **On** or **Off** on the each source.

4 Press **EXIT** button to return to normal TV viewing.



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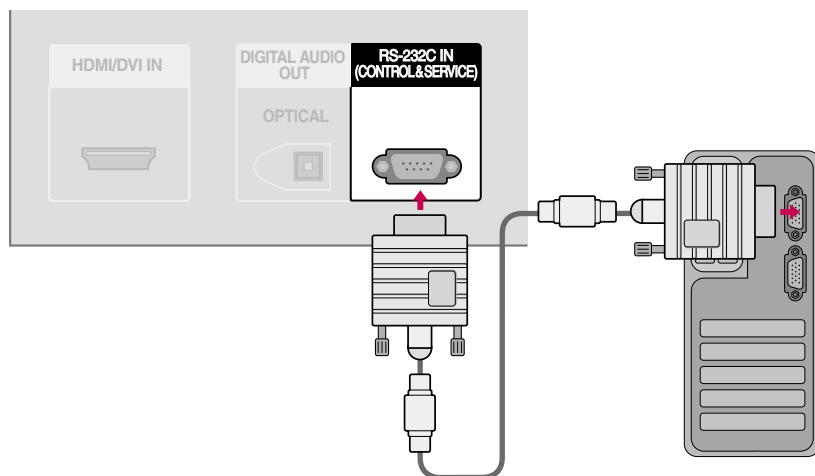
APPENDIX

EXTERNAL CONTROL DEVICE SETUP

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

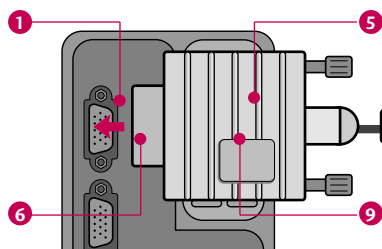
Note: RS-232C connection cables are not supplied with the TV.

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



RS-232C Configurations

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

	PC	TV	
RXD	2	3	TXD
TXD	3	2	RXD
GND	5	5	GND
DTR	4	6	DSR
DSR	6	4	DTR
RTS	7	8	CTS
CTS	8	7	RTS
	D-Sub 9	D-Sub 9	

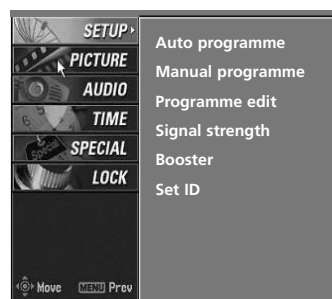
3-Wire Configurations (Not standard)

	PC	TV	
RXD	2	3	TXD
TXD	3	2	RXD
GND	5	5	GND
DTR	4	6	DTR
DSR	6	4	DSR
RTS	7	7	RTS
CTS	8	8	CTS
	D-Sub 9	D-Sub 9	

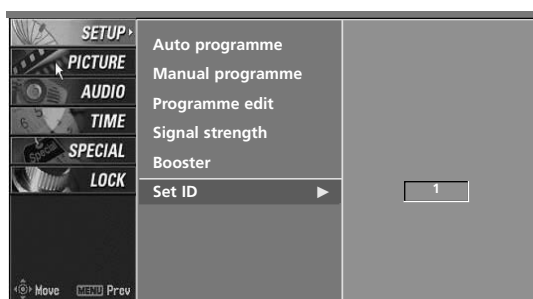
Set ID

Use this function to specify a TV ID number.
Refer to 'Real Data Mapping1'. See page 89.

- 1 Press the **MENU** button and then use ▲ or ▼ button to select the **SETUP** menu.
- 2 Press the ► button and then use ▲ or ▼ button to select **Set ID**.
- 3 Press the ► button and then use ▲ or ▼ button to adjust **Set ID** to choose the desired TV ID number. The adjustment range of Set ID is 1~99.
- 4 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



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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.

APPENDIX

Command Reference List

	COMMAND1	COMMAND2	DATA (Hexadecimal)		COMMAND1	COMMAND2	DATA (Hexadecimal)
01. Power	k	a	0 ~ 1	17. Bass	k	s	0 ~ 64
02. Input Select	k	b	0 ~ 8	18. Balance	k	t	0 ~ 64
03. Aspect Ratio	k	c	See p.89	19. Colour Temperature	k	u	0 ~ 2
04. Screen Mute	k	d	0 ~ 1	20. Red Adjustment	k	v	0 ~ C8
05. Volume Mute	k	e	0 ~ 1	21. Green Adjustment	k	w	0 ~ C8
06. Volume Control	k	f	0 ~ 64	22. Blue Adjustment	k	\$	0 ~ C8
07. Contrast	k	g	0 ~ 64	23. PIP Input Source	k	y	0 ~ 3
08. Brightness	k	h	0 ~ 64	24. ISM Method	j	p	0 ~ 3
09. Colour	k	i	0 ~ 64	25. Low Power	j	q	0 ~ 1
10. Tint	k	j	0 ~ 64	26. Orbiter Time Setting	j	r	1 ~ FE
11. Sharpness	k	k	0 ~ 64	27. Orbiter Pixel Setting	j	s	1 ~ 3
12. OSD Select	k	l	0 ~ 1	28. Channel Tuning	m	a	See p.91
13. Remote Control/ Key Lock	k	m	0 ~ 1	29. Send IR Code	m	c	See p.92
14. PIP/POP/Twin	k	n	0 ~ 3	30. Input Select	x	b	See p.92
15. PIP Position	k	q	0 ~ 3	31. PIP Input Select	x	y	See p.92
16. Treble	k	r	0 ~ 64				

Only 42PC1D*, 50PC1D*, 60PC1D* models

Transmission / Receiving Protocol

Transmission

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

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

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

[Set ID] : You can adjust the selDtochoosedesired 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 comand.

[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

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/NG][Data][x]

* In a like manner, if other functions transmit 'FF' data based on this format, Acknowledgement data feedback presents status about each function.

02. Input Select (Command2:b) (Main Picture Input)

To select input source for the TV.

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

Data 0: Digital Data 5: Component 2

Data 1: Analogue Data 6: RGB-DTV

Data 2: AV1 Data 7: RGB-PC

Data 3: AV2 Data 8: HDMI/DVI

Data 4: Component 1

Acknowledgement [b][][Set ID][][OK/NG][Data][x]

03. Aspect Ratio (Command2:c) (Main picture format)

To adjust the screen format.

You can also adjust the screen format using the ARC button on remote control or in the Special menu.

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

Date 0: Auto

1: 4:3

2: 16:9

3: 14:9 (-10) ~ D: 14:9 (0) ~ 17: 14:9 (10)

18: Zoom (-16) ~ 28: Zoom (0) ~ 38: Zoom (16)

39: Cinema Zoom (1) ~ 48: Cinema Zoom (16)

Acknowledgement [c][][Set ID][][OK/NG][Data][x]

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

04. 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/NG][Data][x]

05. 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/NG][Data][x]

06. 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 mapping1' as shown below.

Acknowledgement [f][][Set ID][][OK/NG][Data][x]

07. 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 mapping1' as shown below.

Acknowledgement [g][][Set ID][][OK/NG][Data][x]

08. 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(*transmit by Hexadecimal code)

Refer to 'Real data mapping1' as shown below.

Acknowledgement [h][][Set ID][][OK/NG][Data][x]

09. Colour (Command2:i)

To adjust the screen colour.

You can also adjust colour in the Picture menu.

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

Data Min : 0 ~ Max : 64

Refer to 'Real data mapping1' as shown below.

Acknowledgement [i][][Set ID][][OK/NG][Data][x]

*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)

⋮

63 : Step 99 (SET ID 99)

64 : Step 100

Tint: R50 ~ G50, Balance: L50 ~ R50

APPENDIX

10. Tint (Command2:j)

To adjust the screen tint (only 60Hz).

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 mapping1'. See page 89.

Acknowledgement [j][][Set ID][][OK/NG][Data][x]

11. 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 mapping1'. See page 89.

Acknowledgement [k][][Set ID][][OK/NG][Data][x]

12. OSD Select (Command2:l)

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

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

Data 0: OSD off Data 1: OSD on

Acknowledgement [l][][Set ID][][OK/NG][Data][x]

* When setting "OSD - Off", every OSD doesn't display on screen.

13. 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/NG][Data][x]

14. PIP / POP / Twin Picture (Command2:n)

To control the PIP (Picture-in-Picture)/POP/Twin picture. You can also control the PIP/POP/Twin picture using the PIP button on the remote control.

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

Data 0: PIP off

2: POP

1: PIP

3: Twin picture

Acknowledgement [n][][Set ID][][OK/NG][Data][x]

15. PIP Position (Command2:q)

To select sub picture position for PIP.

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

Data 0: Right down on screen

Data 1: Right up on screen

Data 2: Left up on screen

Data 3: Left down on screen

Acknowledgement [q][][Set ID][][OK/NG][Data][x]

16. Treble (Command2:r)

To adjust treble.

You can also adjust treble in the Audio menu.

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

Data Min: 0 ~ Max: 64(*transmit by Hexadecimal code)

*Refer to 'Real data mapping1'. See page 89.

Acknowledgement [r][][Set ID][][OK/NG][Data][x]

17. Bass (Command2:s)

To adjust bass.

You can also adjust bass in the Audio menu.

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

Data Min: 0 ~ Max: 64(*transmit by Hexadecimal code)

*Refer to 'Real data mapping1'. See page 89.

Acknowledgement [s][][Set ID][][OK/NG][Data][x]

18. Balance (Command2:t)

To adjust balance.

You can also adjust balance in the Audio menu.

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

Data Min: 0 ~ Max: 64(*transmit by Hexadecimal code)

*Refer to 'Real data mapping1'. See page 89.

Acknowledgement [t][][Set ID][][OK/NG][Data][x]

19. Colour Temperature (Command2:u)

To adjust colour temperature.

You can also adjust colour temperature in the Picture menu.

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

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

Acknowledgement [u][][Set ID][][OK/NG][Data][x]

20. Red Adjustment(Command:v)

To adjust red in color temperature

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

Data Min:0 ~ Max:C8

*Refer to "Real data mapping 2". See page 91.

Acknowledgement [v][][Set ID][][OK/NG][Data][x]

21. Green Adjustment(Command:w)

To adjust green in colour temperature.

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

Data Min:0 ~ Max:C8

*Refer to "Real data mapping 2" as shown below

Acknowledgement [w][][Set ID][][OK/NG][Data][x]

22. Blue Adjustment(Command:\$)

To adjust blue in colour temperature.

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

Data Min:0 ~ Max:C8

*Refer to "Real data mapping 2" as shown below

Acknowledgement [\$][][Set ID][][OK/NG][Data][x]

*Real data mapping 2

0 : -20

5 : -19

A : -18

⋮

5F: -1

64: 0

69: +1

⋮

C3 : +19

C8 : +20

23. PIP Input Select (Command2:y)

To select input source for sub picture in PIP/Twin picture mode. You can also adjust input source for sub picture using PIP INPUT button remote control.

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

Data 0: Digital Data 2: AV1

Data 1: Analogue Data 3: AV2

Acknowledgement [y][][Set ID][][OK/NG][Data][x]

24. ISM Method (Command2:p)

(Only 42PC1D*/50PC1D*/60PC1D* models)

To control the ISM method. You can also adjust ISM method in Special menu.

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

Data 0: Normal Data 1: Orbiter

Data 2: Inversion Data 3: White Wash

Acknowledgement [p][][Set ID][][OK/NG][Data][x]

25. Low Power (Command2:q)

(Only 42PC1D*/50PC1D*/60PC1D* models)

To reduce the power consumption of the set. You can also adjust Low power in Special menu.

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

Data 0: low power off

1: low power on

Acknowledgement [q][][Set ID][][OK/NG][Data][x]

26. Orbiter Time Setting (Command2:r)

(Only 42PC1D*/50PC1D*/60PC1D* models)

To adjust orbiter operation time term.

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

Data Min: 1 ~ Max: FE(*transmit by Hexadecimal code),
Unit: Second

*Refer to 'Real data mapping1'. See page 89.

Acknowledgement [r][][Set ID][][OK/NG][Data][x]

27. Orbiter Pixel Setting (Command2:s)

(Only 42PC1D*/50PC1D*/60PC1D* models)

To adjust pixel number in orbiter function.

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

Data Min: 1 ~ Max: 3

*Refer to 'Real data mapping1'. See page 89.

Acknowledgement [s][][Set ID][][OK/NG][Data][x]

28. Channel Tuning (Command: m a)

To tune channel to following programme number

Transmission [m][a][][Set ID][][Data0][][Data1]
[][Data2][Cr]

Data 0: High channel data

Data 1: Low channel data

Data 2: 00: Analogue TV Main

: 01: Analogue TV Sub

: 10: Digital Main

: 11: Digital Sub

ex) Analogue TV Main: ma 0 00 01 00

Digital Sub: ma 0 00 0A 11

* Channel Data Range:

Analogue TV: 0 ~ 63

Digital TV: 0 ~ 3E7

APPENDIX

29. Send IR Code (Command: m c)

To send IR remote key code

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

Data Key code: Refer to page 94.

Acknowledgement [c][][Set ID][][OK/NG][Data][x]

* In this function, It's unavailable to use the IR Code "08 (Power)" and C4 (Power On)".

30. Input Select(Command: x b) (Main Picture Input)

To select input source for main picture.

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

Data 00 : Digital	Data 41 : Component2
Data 10 : Analogue	Data 50 : RGB-DTV
Data 20 : AV1	Data 60 : RGB-PC
Data 21 : AV2	Data 90 : HDMI/DVI
Data 40 : Component1	

Acknowledgement [b][][Set ID][][OK/NG][Data][x]

31. PIP Input Select(Command: x y)

To select the input source for sub picture in PIP mode.

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

Data 00 : Digital
Data 10 : Analogue
Data 20 : AV1
Data 21 : Av2

Acknowledgement [y][][Set ID][][OK/NG][Data][x]

IR CODES

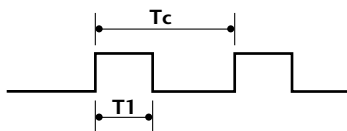
1. How to Connect

- 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



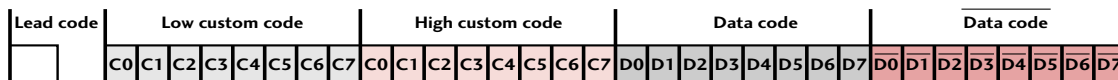
Carrier frequency

$$FCAR = 1/TC = fOSC/12$$

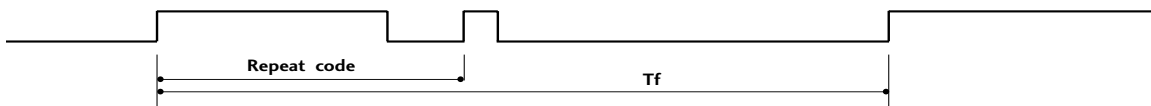
$$\text{Duty ratio} = T1/TC = 1/3$$

■ Configuration of frame

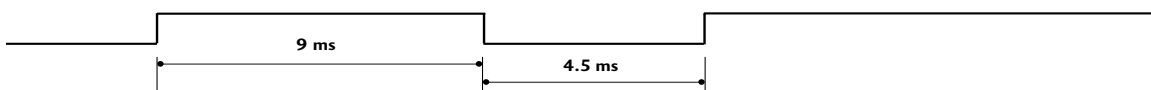
1st frame



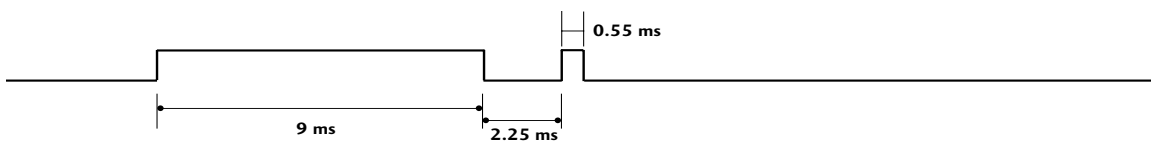
Repeat frame



■ Lead code

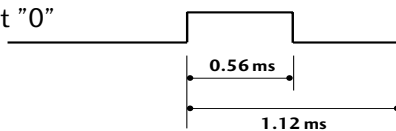


■ Repeat code

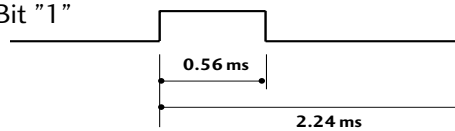


■ Bit description

Bit "0"

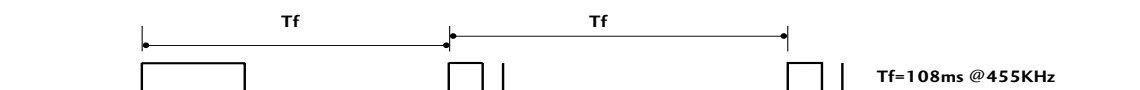


Bit "1"





■ Frame interval: Tf

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



APPENDIX

Code (Hexa)	Function	Note	Code (Hexa)	Function	Note
50	D/A INPUT	Remote control Button	D6	TV	Discrete IR Code
0B	INPUT	Remote control Button			(TV Input Selection)
08	POWER	Remote control Button (Power On/Off)	5A	AV1	Discrete IR Code
79	ARC	Remote control Button			(AV1 Input Selection)
0E	SLEEP	Remote control Button	D0	AV2	Discrete IR Code
10-19	Number Key 0-9	Remote control Button			(AV2 Input Selection)
1A	Q.VIEW	Remote control Button	BF	COMPONENT1	Discrete IR Code
09	MUTE	Remote control Button			(Component1 Input Selection)
02	VOL +	Remote control Button	D4	COMPONENT2	Discrete IR Code
03	VOL -	Remote control Button			(Component2 Input Selection)
00	PR +	Remote control Button	D5	RGB-PC	Discrete IR Code
01	PR -	Remote control Button			(RGB-PC Input Selection)
1E	FAV	Remote control Button	D7	RGB-DTV	Discrete IR Code
40	▲	Remote control Button			(RGB-DTV Input Selection)
41	▼	Remote control Button	C6	HDMI/DVI	Discrete IR Code
07	◀	Remote control Button			(HDMI/DVI Input Selection)
06	▶	Remote control Button	76	Ratio 4:3	Discrete IR Code
44	OK	Remote control Button			(Only 4:3 Mode)
43	MENU	Remote control Button	77	Ratio 16:9	Discrete IR Code
5B	EXIT	Remote control Button			(Only 16:9 Mode)
60	PIP	Remote control Button	AF	Ratio Zoom	Discrete IR Code
C1	PIP PR -	Remote control Button			(Only Zoom Mode)
C0	PIP PR +	Remote control Button	C4	POWER ON	Discrete IR Code
C2	SWAP	Remote control Button			(Only Power On)
C3	PIP INPUT	Remote control Button	C5	POWER OFF	Discrete IR Code
92	APM	Remote control Button			(Only Power Off)
A9	GUIDE	Remote control Button	53	LIST	Remote control Button
64	SIZE	Remote control Button	0A	I/II	Remote control Button
70	INDEX	Remote control Button	AA	INFO	Remote control Button
26	TIME	Remote control Button	E1	– 	Remote control Button
2A	REVEAL	Remote control Button	E0	 +	Remote control Button
20	TEXT	Remote control Button			
72	RED	Remote control Button			
71	GREEN	Remote control Button			
63	YELLOW	Remote control Button			
61	BLUE	Remote control Button			

PROGRAMMING THE REMOTE CONTROL

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

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

Programming a code into a remote mode

- 1** To find out whether your remote can operate the device without programming, turn on the device such as a VCR and press the corresponding mode button on the remote.
After that, press the **POWER** button. If the device is turned off then it responds properly and the remote need not to be programmed. If not, the remote should be programmed to operate the device. The programming procedures are explained below.
- 2** Press the **MENU** and **MUTE** button continuously at the same time for 2 seconds, the current selected device button will be illuminated.
If you don't press any button for 20 seconds, the light on the mode button will be turned off. In that case, you have to repeat from step 2.
- 3** Enter code numbers using the number button on the remote by referring the code table on the following pages. When pressing the button, the light blinks at a time. If the device turned off, the programming is successful.
- 4** Press the **MENU** button to store the code. After blinking twice, this code is stored.
- 5** Test the remote functions to see if the device responds properly. If not, repeat from step 2.

APPENDIX

PROGRAMMING CODES

VCRs

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

VCRs

Brand	Codes	Brand	Codes	Brand	Codes
ABC	003 004 039 042 046 052 053	LG (GOLDSTAR)	074 001 106 101 005	REMBRANT	025
AJIN	112	M-NET	037	SAMSUNG	102 107 030 068
ANTRONIK	014	MACOM	033	SCIENTIFIC ATLANTA	003 011 041 042
ARCHER	005 007 014 024	MAGNAVOX	010 012 064 079	SHERITECH	043 045 046
CABLE STAR	026	MEMOREX	100	SIGNAL	022
CENTURION	092	MOVIE TIME	028 032	SIGNATURE	030
CENTURY	007	NSC	015 028 038 071	SL MARX	052
CITIZEN	007		073	SPRUCER	030
COLOUR VOICE	065 090	OAK	016 031 037 053	STARCOM	047 078
COMBANO	080 081	PANASONIC	044 047	STARGATE	002 004 008 009
COMTRONICS	019 030	PARAGON	100	TADIRAN	008 030
DIAMOND	023			TAEKWANG	030
EAGLE	020 030 040	PHILIPS	006 012 013 020	TAIHAN	110
EASTERN	057 062 066		065 085 090	TAIHAN	105
ELECTRICORD	032	PIONEER	034 051 052 063	TANDY	017
GE	072		076	TEXSCAN	029
GEMINI	008 022 025 054	POST NEWS WEEK	016	TOCOM	039 040 056
GI	052 074	PRUCER	059	TOSHIBA	100
GOLDEN CHANNEL	030	PTS	011 048 071 072	UNIKA	007 014 024
HAMLIN	049 050 055		073 074	UNITED CABLE	004 053
HITACHI	052 055	PULSAR	100	UNIVERSAL	005 007 014 024
HOSPITALITY	070 077	RCA	047		026 027 032 035
JERROLD	002 003 004 008 009 010 052 069	REGAL	049 050	VIEWSTAR	012 015 018 086
		REGENCY	057		087 088 089
				ZENITH	100 114 060 093

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		

APPENDIX

TROUBLESHOOTING CHECKLIST

The operation does not work normally.

The remote control
doesn't work

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

Power is suddenly
turned off

- Is the sleep timer set?
- Check the power control settings. Power interrupted
- No broadcast on station tuned with Auto off activated.

The operation does not work normally.

No picture & No sound

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

Picture appears slowly
after switching on

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

No or poor color
or poor picture

- Adjust Color in menu option.
- Keep a sufficient distance between the product and the VCR.
- Try another channel. The problem may be with the broadcast.
- Are the video cables installed properly?
- Activate any function to restore the brightness of the picture.

Horizontal/vertical bars
or picture shaking

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

Poor reception on
some channels

- Station or cable product experiencing problems, tune to another station.

Lines or streaks
in pictures

- Station signal is weak, reorient antenna to receive weaker station.
- Check for sources of possible interference.
- Check antenna (Change the direction of the antenna).

The audio function does not work.

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

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

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

APPENDIX

PRODUCT SPECIFICATIONS

MODELS		32LC2D (32LC2D-AA)	37LC2D (37LC2D-AA)	42LC2D (42LC2D-AA)
Dimensions (Width x Height x Depth)	Including stand	31.9 x 24.8 x 9.3 inches 811.0 x 630.0 x 235.0mm	37.2 x 28.7 x 11.3 inches 944 x 729 x 286 mm	41.5 x 32.0 x 11.9 inches 1054 x 813 x 302 mm
	Excluding stand	32.0 x 22.4 x 4.9 inches 811.0 x 566.8 x 123.5 mm	37.2 x 26.0 x 5.1 inches 944.0 x 659.3 x 129.7 mm	41.5 x 29.4 x 5.4 inches 1054.0 x 746.0 x 136.8 mm
Weight	including stand	48.2 pounds / 21.9kg	65.0 pounds / 29.5 kg	81.6 pounds / 37.0 kg
	excluding stand	40.8 pounds / 18.5 kg	54.9 pounds / 24.9 kg	67.0 pounds / 30.4 kg
Power requirement Television System Program Coverage External Antenna Impedance		AC100-240V ~ 50/60Hz PAL B/G, DVB-T VHF 0-12, UHF 20-75, CATV 02-44, DTV 06-12, 27-69 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%		

MODELS		42PC1DG (42PC1DG-AA)	42PC1DV (42PC1DV-AA)	50PC1D (50PC1D-AA)	60PC1D (60PC1D-AA)
Dimensions (Width x Height x Depth)	Including stand	44.4 x 29.5 x 15.0 inches 1129.0 x 748.5 x 380.0mm	44.4 x 29.5 x 15.0 inches 1129.0 x 748.5 x 380.0mm	51.3 x 34.3 x 14.0 inches 1302.6 x 872.0 x 355.8mm	60.8 x 40.8 x 16.0 inches 1544.0 x 1035.5 x 408.2mm
	Excluding stand	44.4 x 27.4 x 4.1 inches 1129.0 x 695 x 103.7 mm	44.4 x 27.4 x 4.1 inches 1129.0 x 695 x 103.7 mm	51.3 x 31.9 x 4.3 inches 1302.6 x 810.0 x 108.7 mm	60.8 x 38.4 x 4.7 inches 1544.0 x 977.0 x 119.2mm
Weight	including stand	64.4 pounds / 29.2kg	62.6 pounds / 28.4 kg	113.5 pounds / 51.5 kg	163.0 pounds / 74.0 kg
	excluding stand	55.8 pounds / 25.3 kg	54.0 pounds / 24.5 kg	97.7 pounds / 44.3 kg	137.3 pounds / 62.3 kg
Power requirement Television System Program Coverage External Antenna Impedance		AC100-240V ~ 50/60Hz PAL B/G, DVB-T VHF 0-12, UHF 20-75, CATV 02-44, DTV 06-12, 27-69 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.

