LCD TV | PLASMA TV | OWNER'S MANUAL

LG Electronics Inc.

Life's Good

LG



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DVB
Digital Video Broadcasting

DVB is a registered trademark of the DVB Project

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ENERGY STAR

P/NO : 38289U0569A (0608-REV05)
Printed in Korea

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

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After reading this manual, keep it handy for future reference.

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

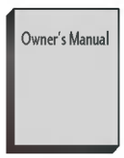
a. The fluorescent lamp used in this product contains a small amount of mercury.

b. Do not dispose of this product with general household waste.

c. Disposal of this product must be carried out in accordance to the regulations of your local authority.

ACCESSORIES

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



Owner's Manual



Batteries

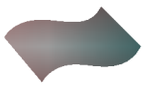


Remote Control



Power Cord

37LC2D*/42LC2D*/42PC1DG/50PC1D 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 cautions of that excessive power may cause scratch or discoloration.



2-Wall brackets



2-eye-bolts

42PC1D* only



2- Bolts
(Refer to p.13)



2-TV Brackets,
2-Wall Brackets



4-bolts



4-Ring Spacer



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)

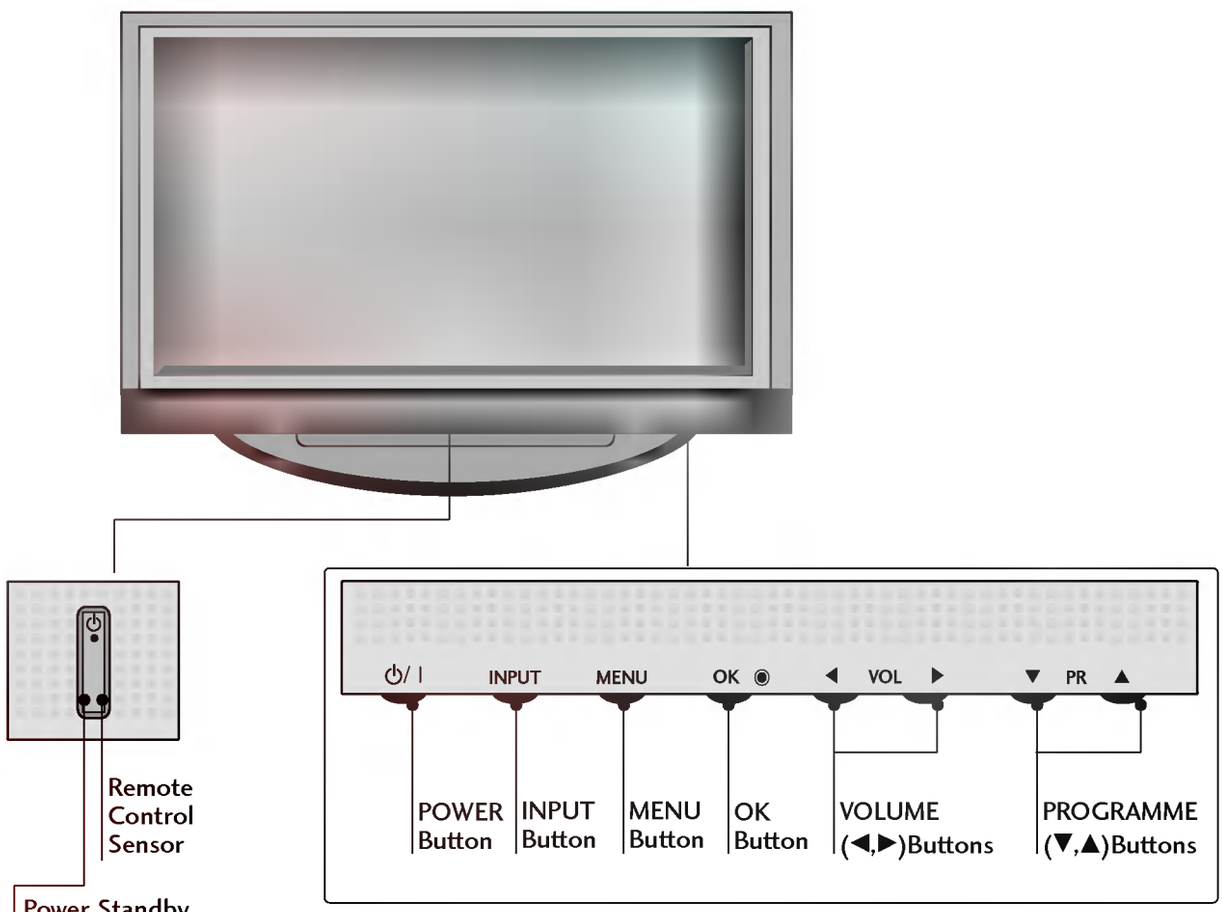
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CONTROLS

■ 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*.

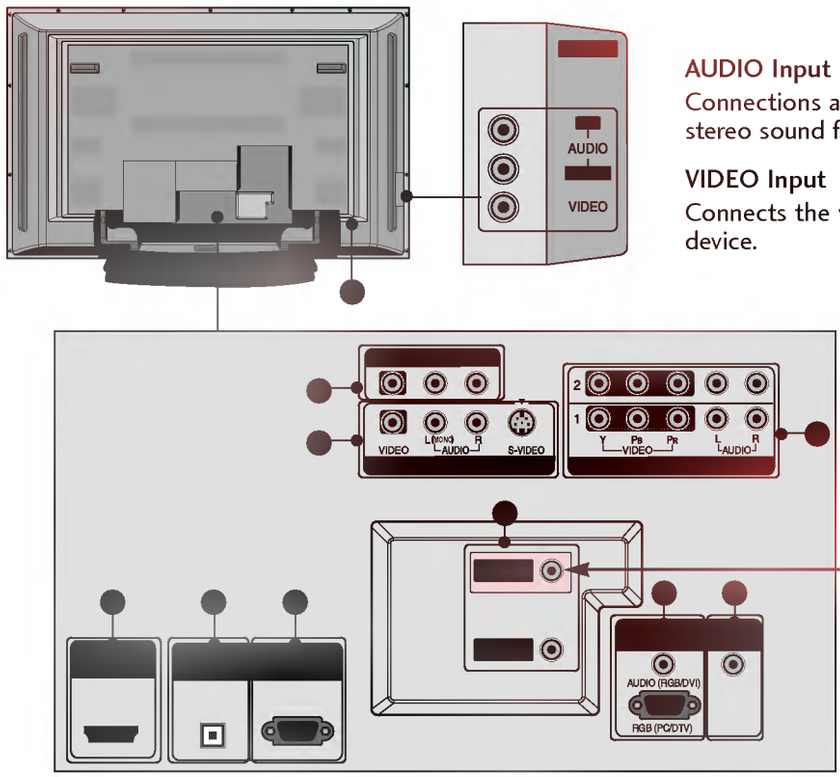


CONNECTION OPTIONS

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

■ Here shown may be somewhat different from your TV.

Back Connection Panel



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

VIDEO Input
Connects the video signal from a video device.

*** ANTENNA OUT**
This jack is not available for all models.

- **AV OUT**
  Connect a second TV or monitor.
- **AV (Audio/Video) IN 1**
  Connect audio/video output from an externa device to these jacks.
  S-VIDEO
  Connect S-Video out from an S-VIDEO device.
- **COMPONENT IN**
  Connect a component video/audio device to these jacks.
- **HDMI/DVI IN**
  Connect a HDMI signal.
  Or DVI(VIDEO)signal to the this port with a HDMI to DVI cable.
- **DIGITAL AUDIO OUT OPTICAL**
  Connect digital audio from various types of equipment. Note: In standby mode, these ports do not work.
- **RS-232C IN (CONTROL &SERVICE) PORT**
  Connect to the RS-232C port on a PC.
- **ANTENNA IN / ANTENNA OUT**
  Connect cable signals to this jack.
- **RGB/AUDIO IN**
  Connect the output from a settop box or PC to the appropriate input port.
- **Remote Control Port**
  Connect your wired remote control.
- **Power Cord Socket**
  For operation with AC power.
  Caution: Never attempt to operate the TV on DC power.

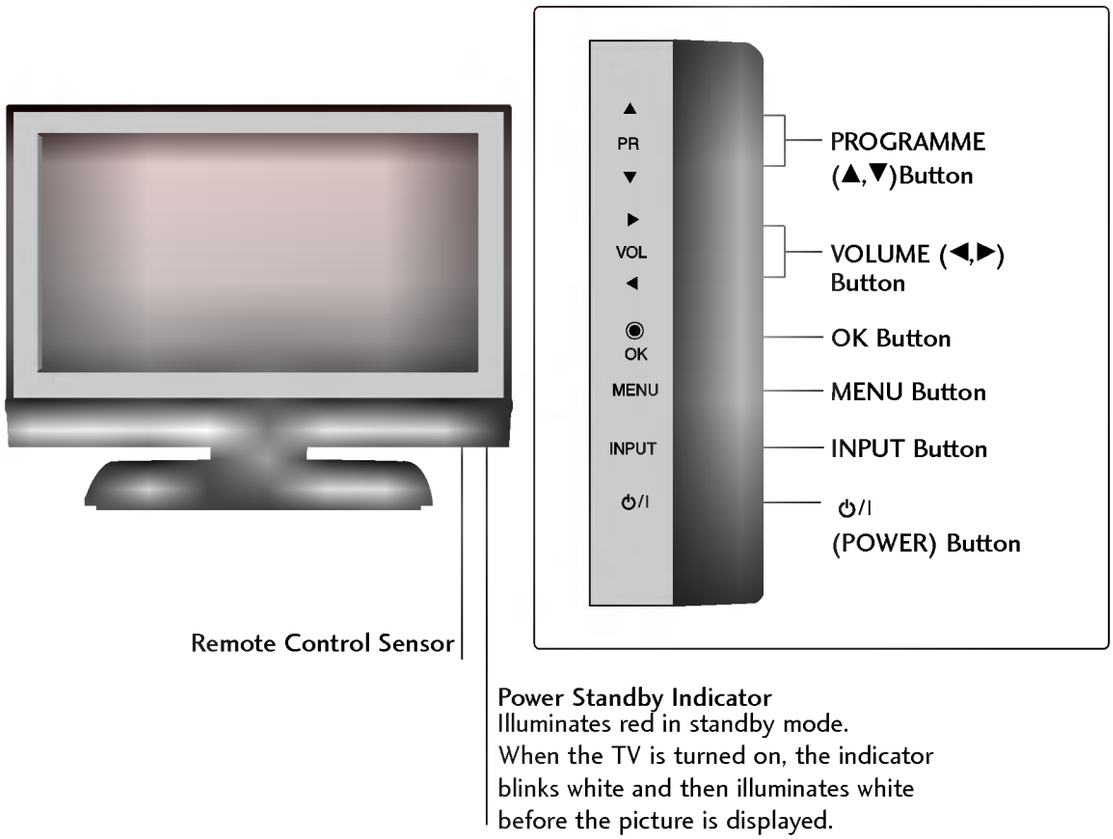
INTRODUCTION

CONTROLS

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

■ Here shown may be somewhat different from your TV.

Front Panel Controls



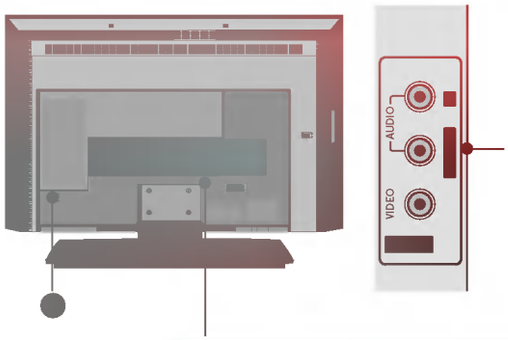
CONNECTION OPTIONS

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

- Here shown may be somewhat different from your TV.

Back Connection Panel

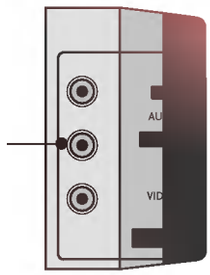
37/42LC2D*

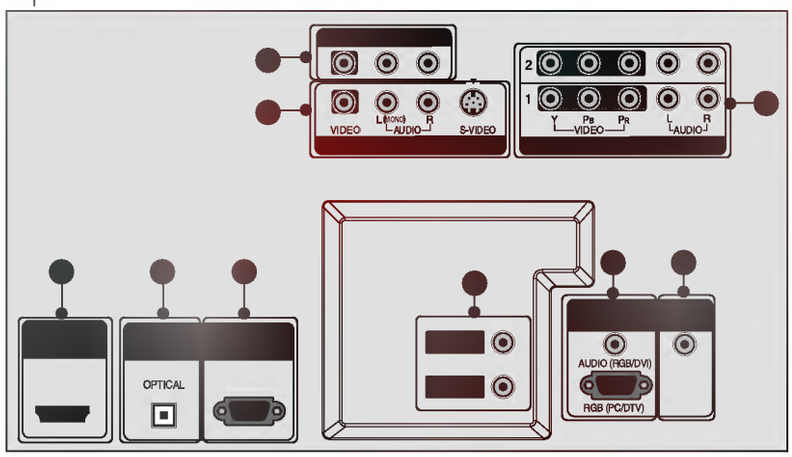


AUDIO Input
Connections are available for listening to stereo sound from an external device.

VIDEO Input
Connects the video signal from a video device.

32LC2D*





- **AV OUT**
  Connect a second TV or monitor.

- **AV (Audio/Video) IN 1**
  Connect audio/video output from an externa device to these jacks.
  S-VIDEO
  Connect S-Video out from an S-VIDEO device.

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REMOTE CONTROL KEY FUNCTIONS

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

D/A INPUT (Digital TV / Analogue TV) Selects digital or analogue mode.

INPUT External input modes rotate in regular sequence: Digital, Analogue, AV1-2, Component 1-2, RGB-DTV (or RGB-PC), HDMI/DVI.

POWER Switches the set between ON and STANDBY.

ARC Selects your desired picture format. ▶ **p.78**

☼ +/-
- Adjusts brightness on screen. ▶ **p.55**
- It returns to the default settings brightness by changing mode source.

VCR/DVD control buttons Control some video cassette recorders or DVD players ("RECORD" button is not available for DVD player).

OK Accepts your selection or displays the current mode.

THUMBSTICK (Up/Down/Left Right/OK)
- Adjusts menu settings.
- Selects menu item.

VOLUME +/- Increase/decrease the sound level.

Q.VIEW Returns to the previously viewed programme.

MUTE Switches the sound on or off.

Programme +/- Selects a programme.

NUMBER button

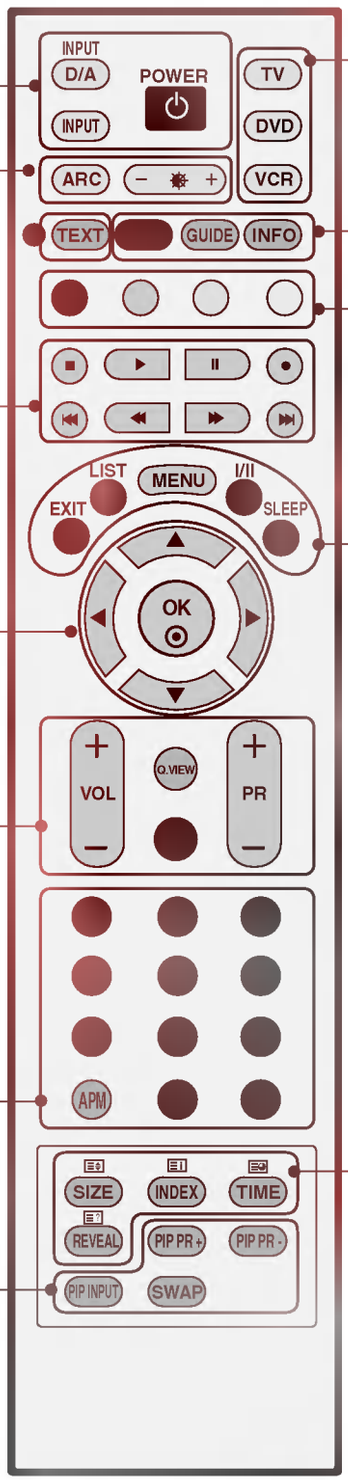
APM Concurrently, compare with the Dynamic, Standard, Mild, User1 and User2 on the screen. ▶ **p.55**

FAV (FAVOURITE) Displays the selected favourite programmes.

PIP PR +/- Selects a programme for the sub picture.▶ **p.37**

PIP INPUT Selects the input mode for the sub picture.▶ **p.37**

SWAP Alternates between main and sub picture in PIP/Twin picture mode.▶ **p.38**



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**

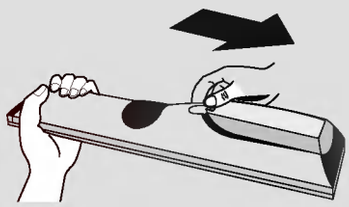
MENU Selects a menu.

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

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

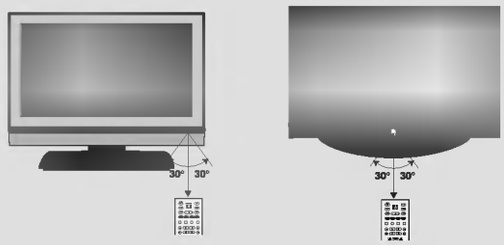
● **TELETEXT BUTTONS** These buttons are used for teletext.
Text button is used to enable teletext services while other buttons are for teletext functions.
* For further details, see the 'Teletext' section. ▶ **p.40-41**

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

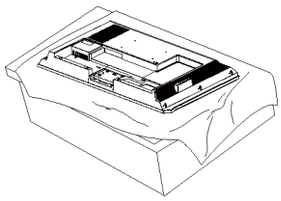


- Use a remote control up to 7 meters distance and 30 degree (left/right) within the receiving unit scope.
- Dispose of used batteries in a recycle bin to preserve environment.

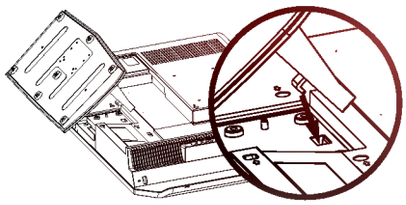
INSTALLATION

STAND INSTALLATION (FOR 32LC2D*)

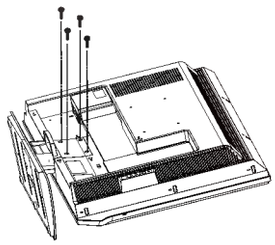
- Carefully place the product screen side down on a cushioned surface that will protect product and screen from damage.



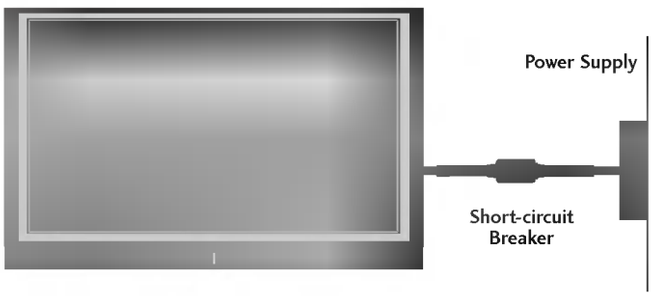
- Place the hook of the stand in the back of the product as shown.



- 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

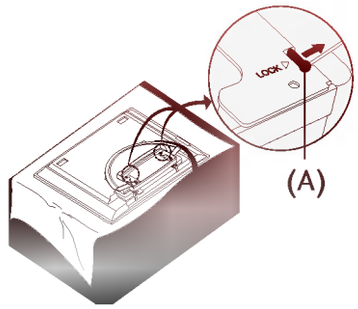
Ensure that you connect the earth ground wire to prevent possible electric shock. If grounding methods are not possible, have a qualified electrician install a separate circuit breaker.

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

STAND INSTALLATION (FOR 42PC1D*)

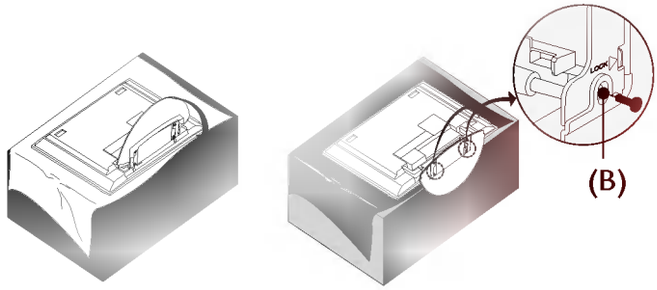
● Place the set with the screen facing down on a cushion or soft cloth as shown.

Before unfolding the stand, please make sure two locks (A) on the bottom of the stand push outward.



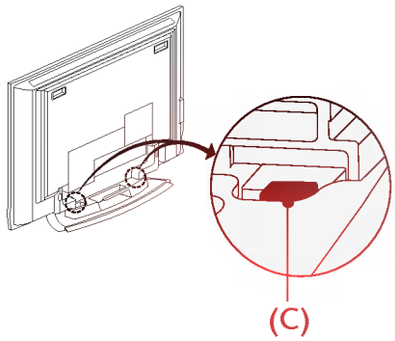
● Pull the stand out as shown.

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.



● 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.

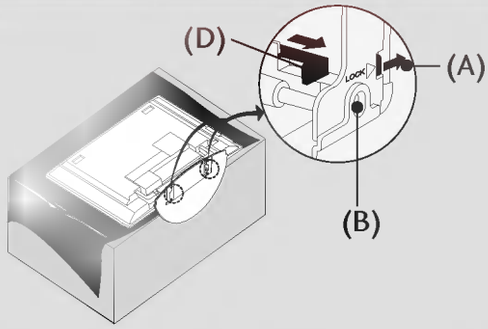


● NOTE

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.

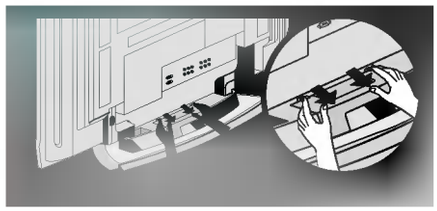


INSTALLATION

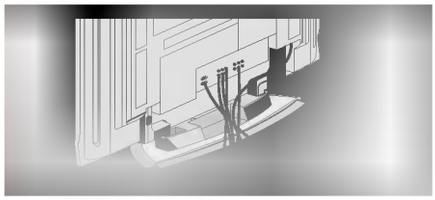
WIRE ARRANGEMENT

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

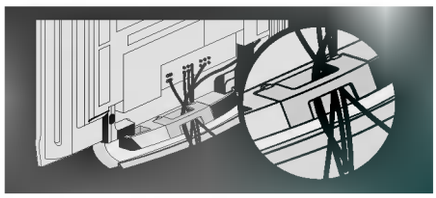
- Hold the **CABLE MANAGEMENT** with both hands and pull it backward as shown.



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



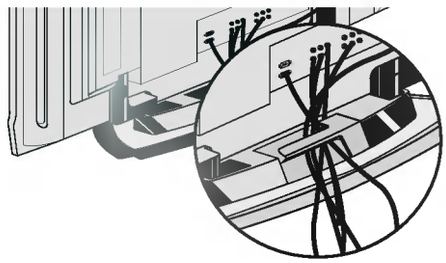
- Install the **CABLE MANAGEMENT** as shown.



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

- 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.

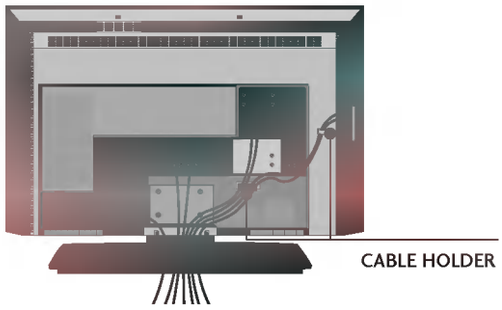
- Arrange the cable as shown.



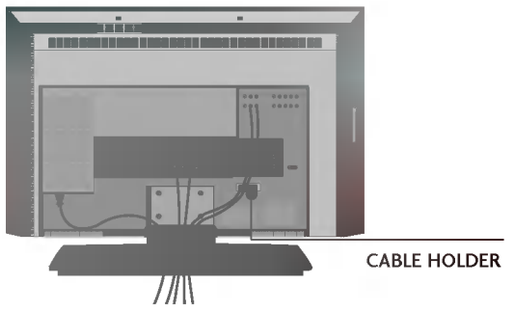
This function explains the features available on the 32LC2D*, 37LC2D*, 42LC2D*.

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.

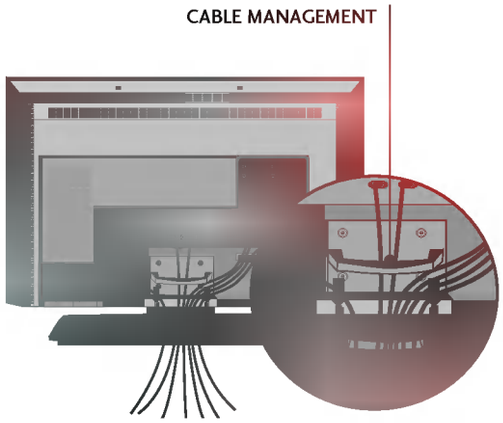
37LC2D*, 42LC2D*



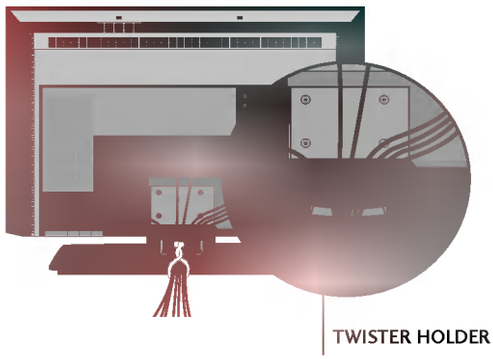
32LC2D*



Install the **CABLE MANAGEMENT** as shown.

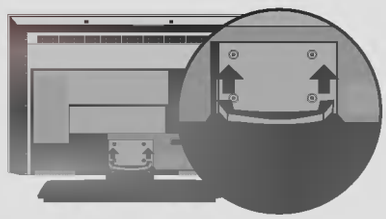


Bundle the cables using the supplied twister holder.



How to remove the CABLE MANAGEMENT

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



NOTE

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

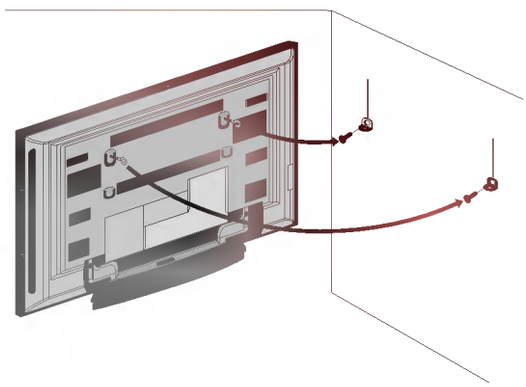
INSTALLATION

ATTACHING THE TV TO A WALL

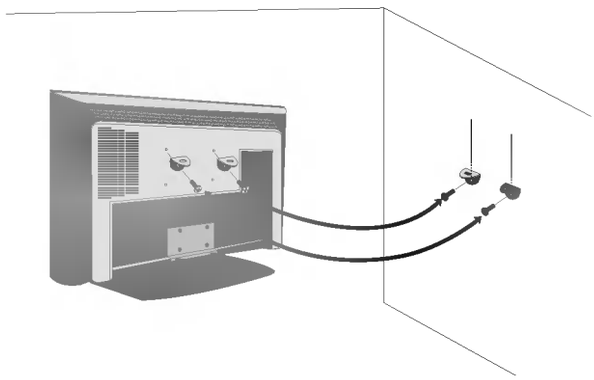
Set it up close to the wall so the product doesn't fall over when it is pushed backwards.

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*



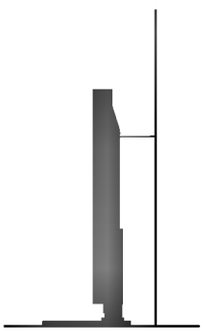
■ Insert the eye-bolts (or TV brackets and bolts) to tighten the product to the wall as shown in the picture.

* 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.

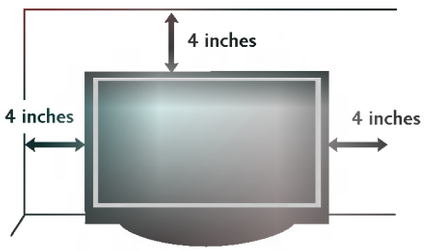


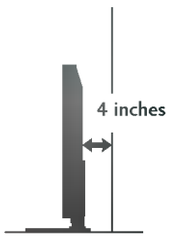
■ Use a sturdy rope (must be purchased separately) to secure the TV. It is safer to tie the rope so it runs horizontally between the wall and the TV.

DESKTOP PEDESTAL INSTALLATION

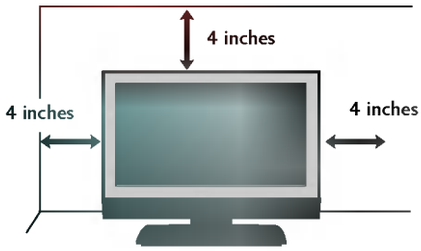
For proper ventilation, allow a clearance of 4inches on each side from the wall.

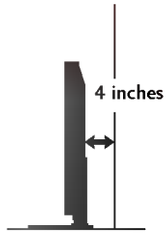
42/50/60PC1D*





32/37/42LC2D*





▲ CAUTION

▶ Ensure adequate ventilation by following the clearance recommendations.

SWIVEL STAND

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



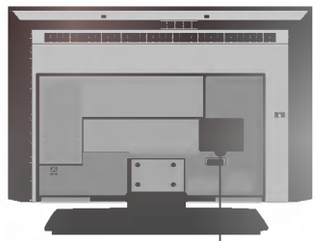
The TV can be conveniently swivelled on its stand 30˚ to the left or right to provide the optimum viewing angle.

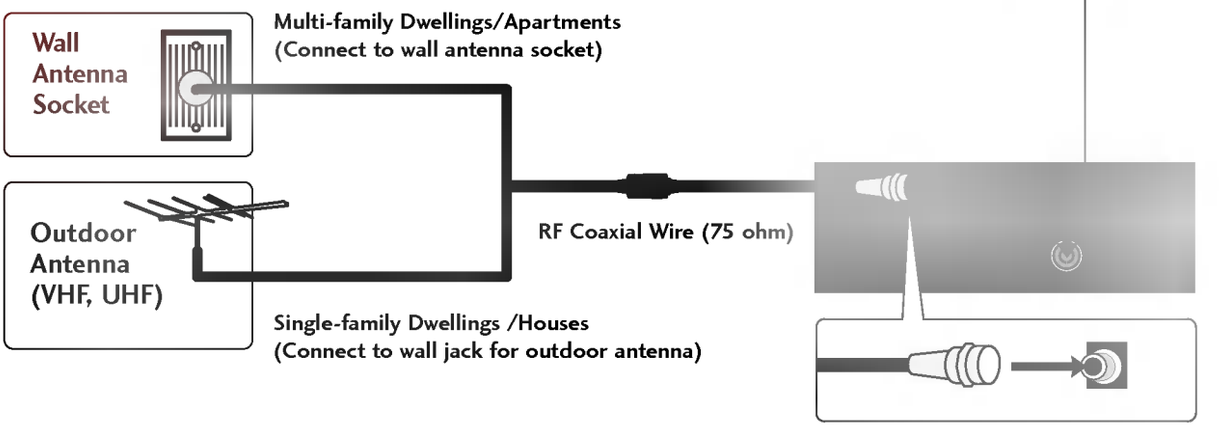
CONNECTIONS & SETUP

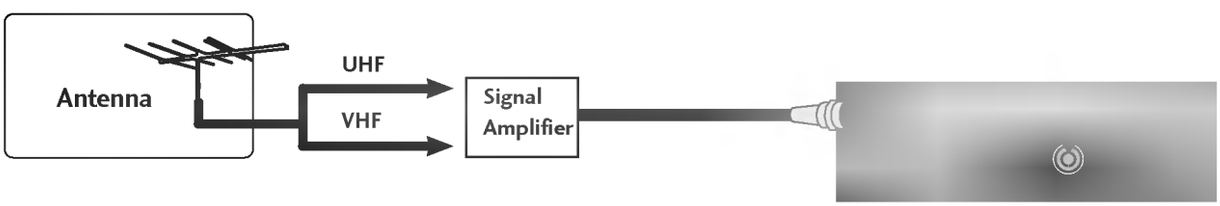
'Connections & Setup' part explains the features available on the 32/37/42LC2D*.

ANTENNA CONNECTION

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







- 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.

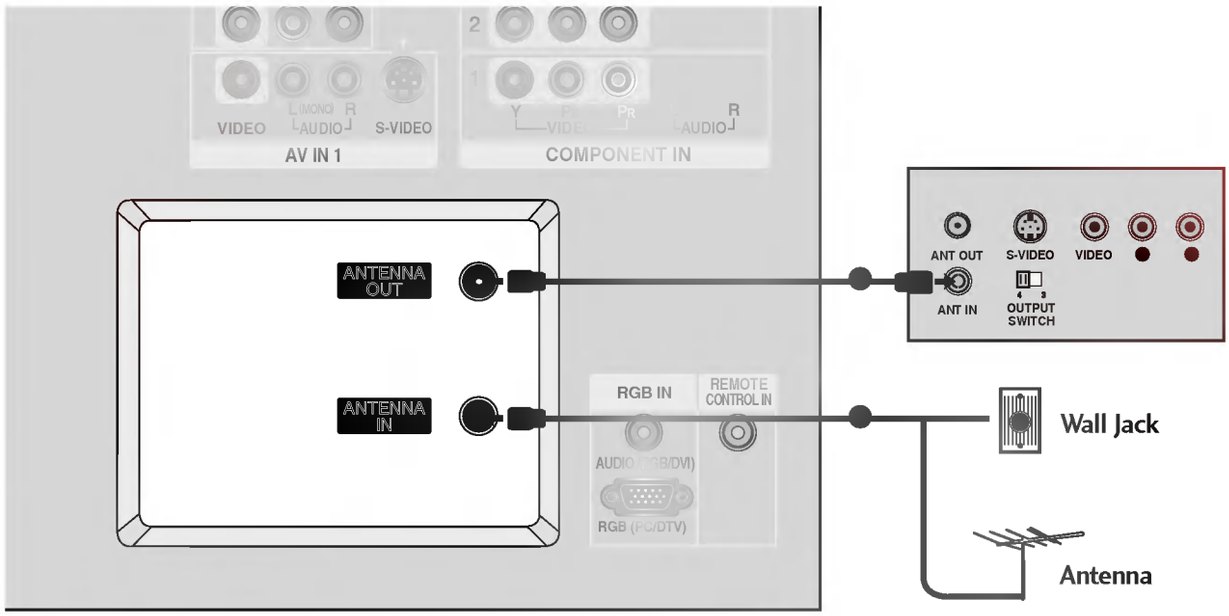
NOTE

▶ 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

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

NOTE

▶ In standby mode, these ports do not work.

HDSTB SETUP

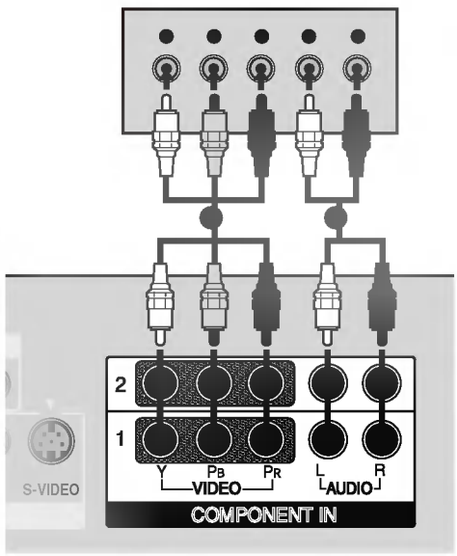
This TV can receive Digital Over-the-air/Cable signals without an external digital set-top box. However, if you do receive digital signals from a digital set-top box or other digital external device, refer to the figure as shown below.

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

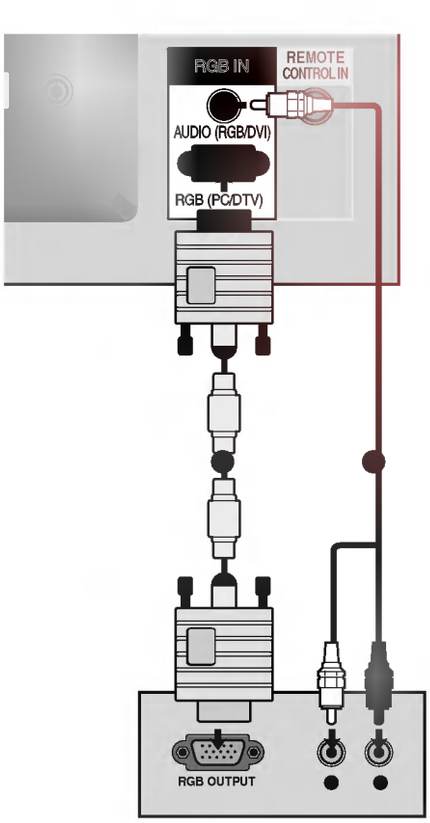
- Turn on the digital set-top box. (Refer to the owner's manu-al for the digital set-top box.)
- Select **Component 1** input source with using the INPUT button on the remote control.
- If connected to **COMPONENT IN 2** input, select **Component 2** input source.

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

- Connect the RGB output of the digital set-top box to the **RGB (PC/DTV)** jack on the set.
- Connect the audio outputs of the set-top box to the **AUDIO(RGB/DVI)** jack on the set.



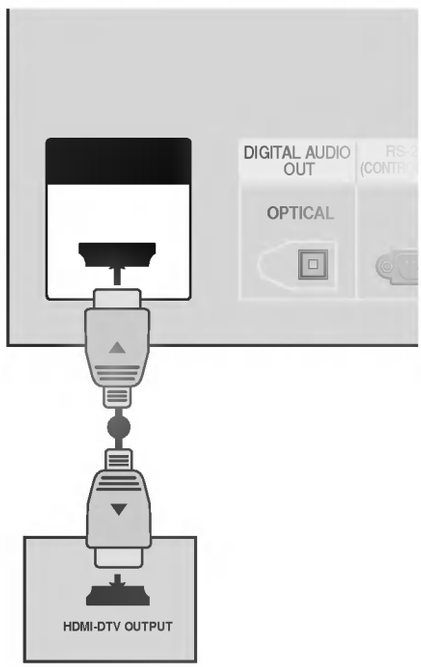
2. How to use

- 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

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



2. How to use

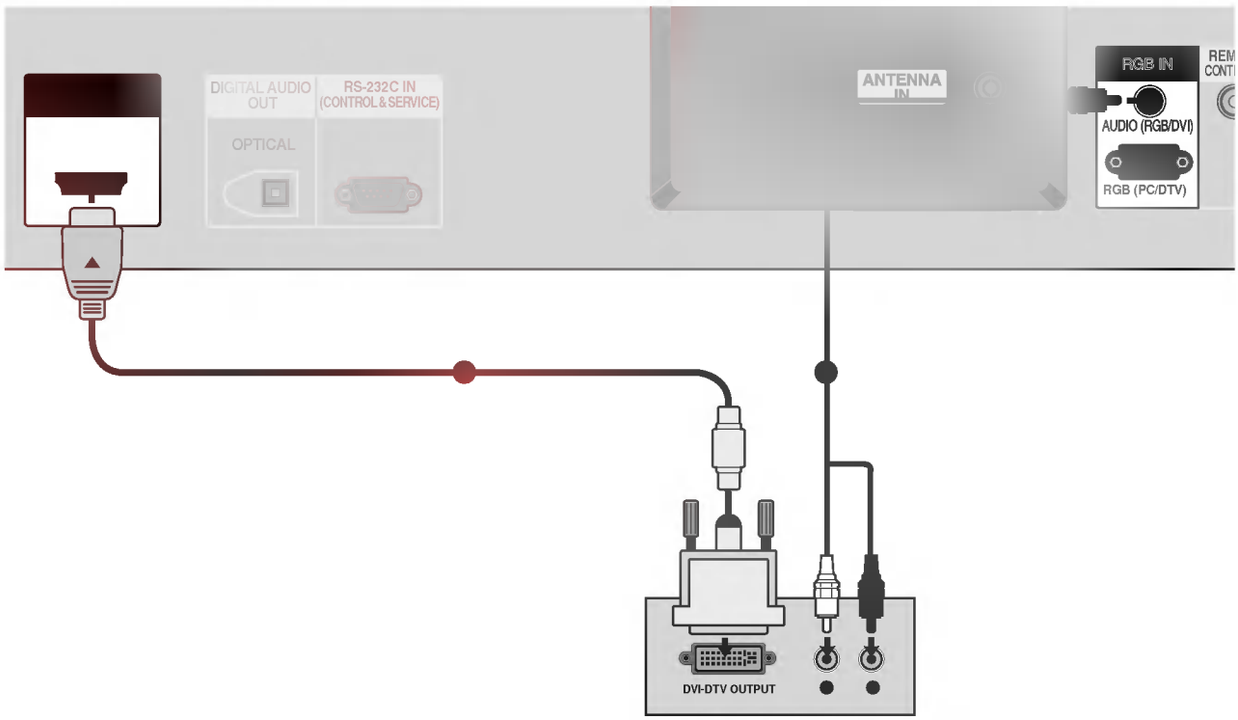
- Turn on the digital set-top box.
  (Refer to the owner's manual for the digital set-top box.)
- Select **HDMI/DVI** input source with using the **INPUT** button on the remote control.

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.

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When connecting HDMI to DVI cable



1. How to connect

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

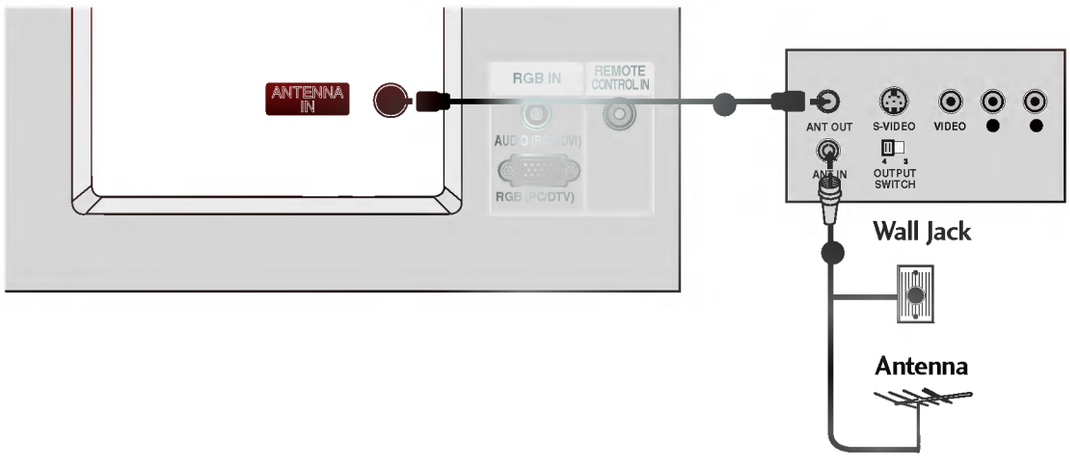
2. How to use

- 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

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

2. How to use

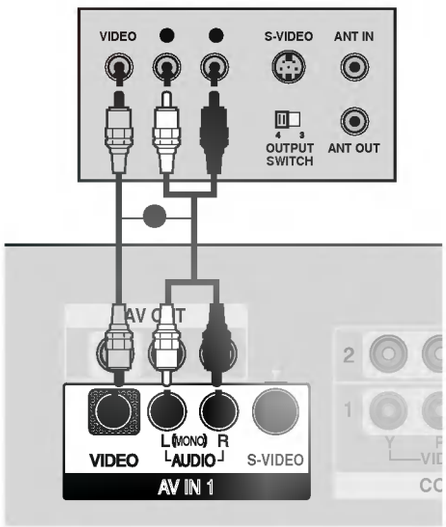
- Set VCR output switch to 3 or 4 and then tune TV to the same programme number.
- Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)

CONNECTIONS & SETUP

When connecting with a RCA cable

1. How to connect

- 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.

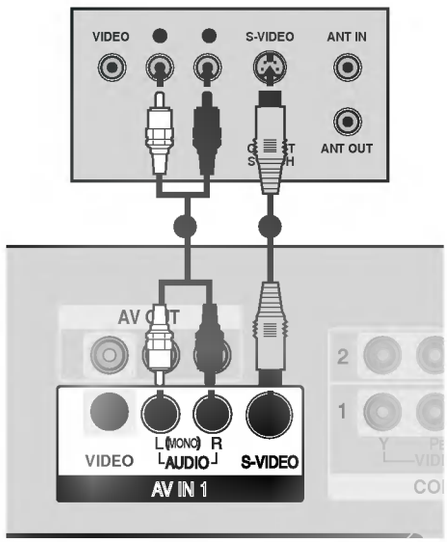
NOTE

▶ 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

- 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.
- 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.

NOTE

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

CAUTION

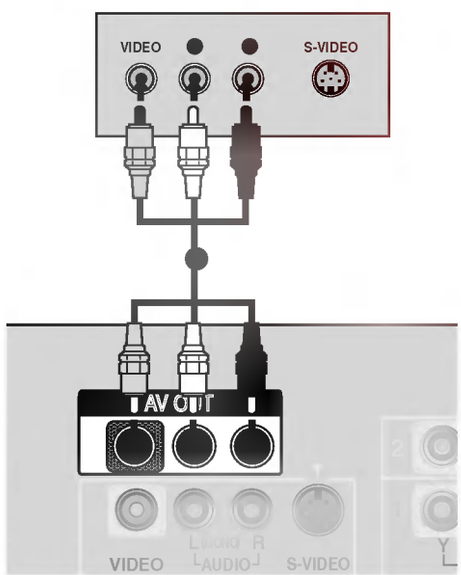
▶ Do not connect to both Video and S-Video at the same time. In the event that you connect both Video and the S-Video cables, only the S-Video will work.

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

- Connect the second TV or monitor to the TV's **AV OUT** jacks.
- 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.

DIGITAL AUDIO OUTPUT

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

1. How to connect

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

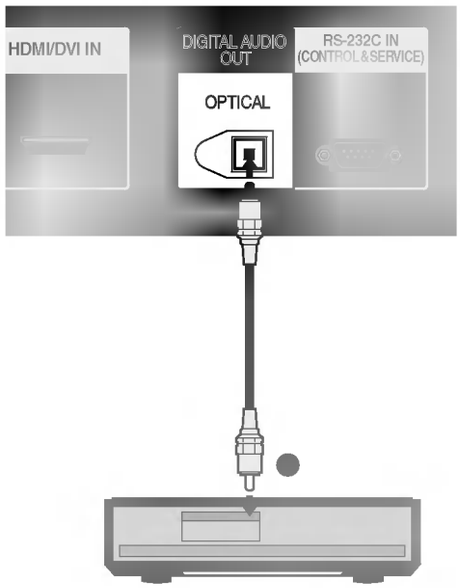
● NOTE

▶ When connecting with external audio equipments, such as amplifers or speakers, please turn the TV speakers off. (▶ **p.68**)

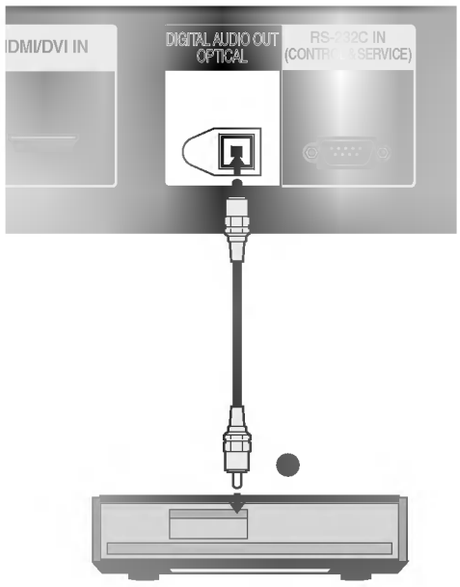
▲ CAUTION

▶ 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*



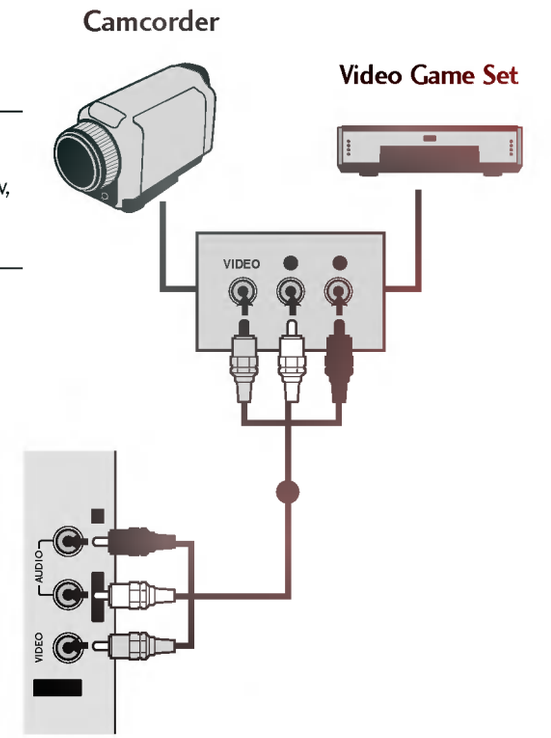
EXTERNAL A/V SOURCE SETUP

1. How to connect

- 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.



i.e) 37/42LC2D*

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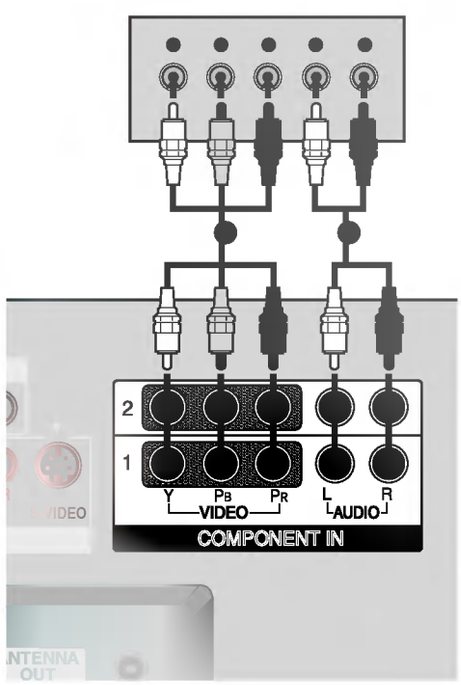
DVD SETUP

When connecting Component cable

1. How to connect

- 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).

- 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

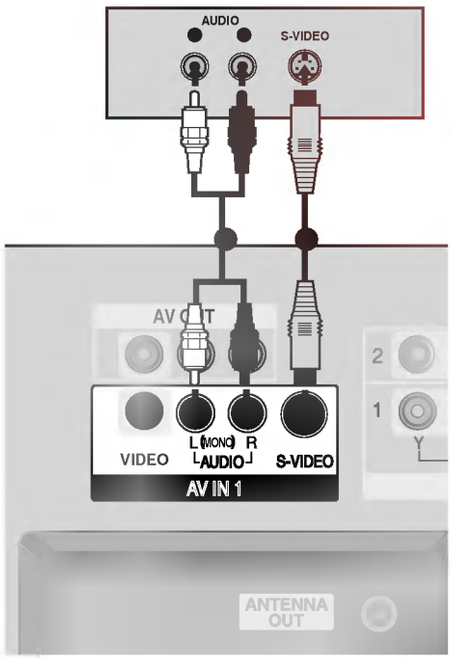
To get better picture quality, connect a DVD player to the component input ports as shown below.

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

When connecting with an S-Video cable

1. How to connect

- Connect the S-VIDEO output of the DVD to the **S-VIDEO** input on the set.
- Connect the audio outputs of the DVD to the **AUDIO** input jacks on the set.



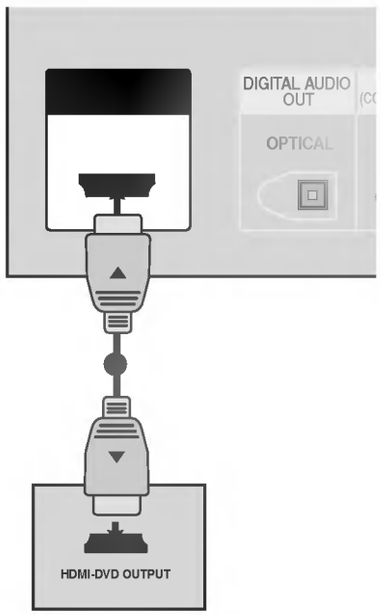
2. How to use

- 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

- Connect the HDMI output of the DVD to the **HDMI/DVI IN** jack on the set.
- 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.

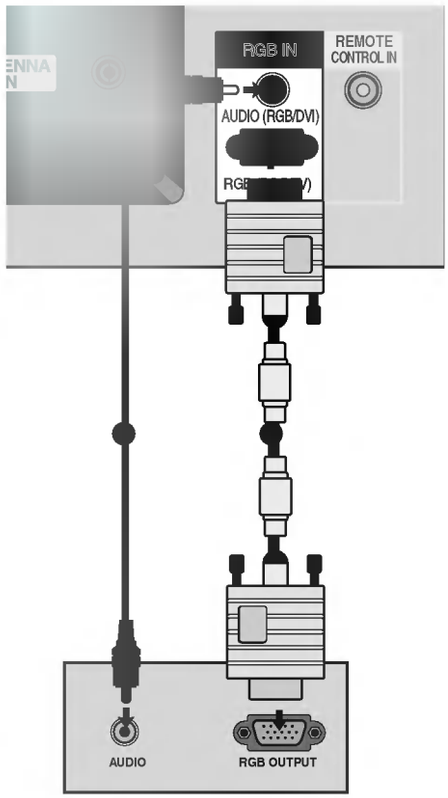
PC SETUP

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

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



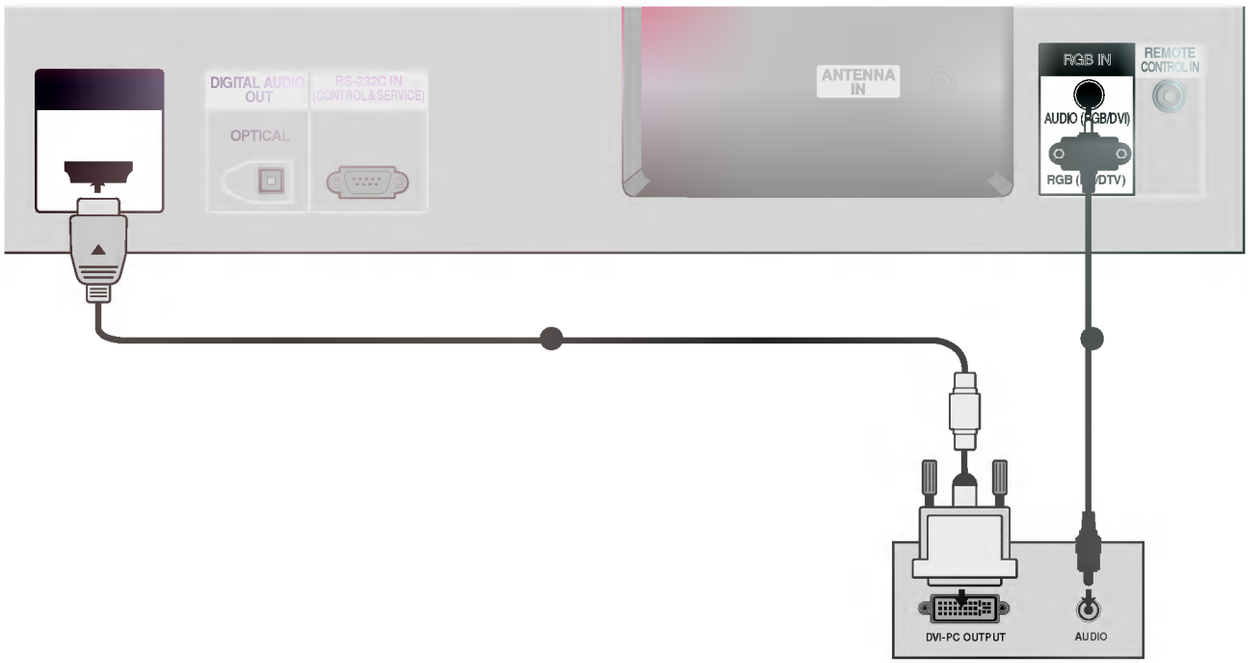
2. How to use

- 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

- Connect the DVI output of the PC to the **HDMI /DVI IN** jack on the set.
- 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)

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

Supported Display Specifications (RGB/HDMI-DTV)

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

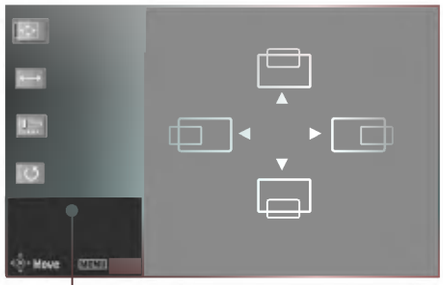
Overview

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.



Position This function is to adjust picture to left/right and up/down as you prefer.

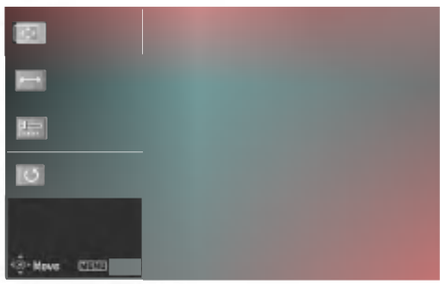
Clock This function is to minimize any vertical bars or stripes visible on the screen background. And the horizontal screen size will also change.

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.



BASIC OPERATION

TURNING THE TV ON



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

Ensure the power cord is connected correctly.
When connected to power the TV switches to standby mode.

- In standby mode, press the ⏻/I , **INPUT**, **PR + / -** button on the TV or press the **POWER**, **INPUT**, **D/A INPUT**, **PR + / -**, **Number (0~9)** button on the remote control.

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.

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

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.

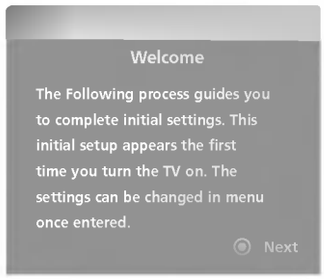


Figure 1.

NOTE

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

VOLUME ADJUSTMENT

Adjust the volume to suit your personal preference.



- Press the **VOL +** / **-** button to adjust the volume.
- If you want to switch the sound off, press the **MUTE** button.
- You can cancel the Mute function by pressing the **MUTE**, **I/II** or **VOL +** / **-** button.

PROGRAMME SELECTION

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

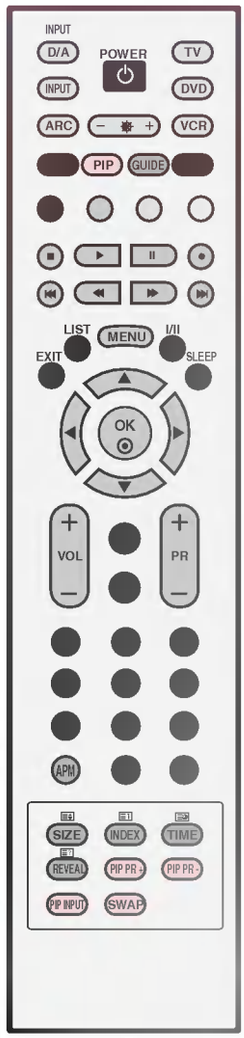


- Press the **PR +** / **-** or **NUMBER** buttons to select a programme number.

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.

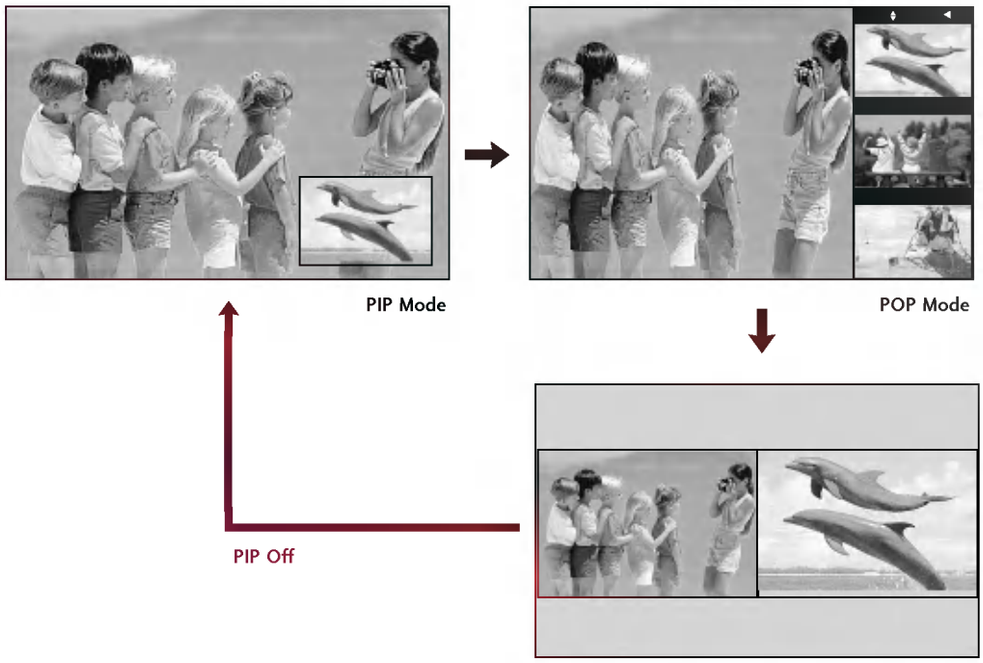
Twin Picture mode splits the screen into two images, allowing two picture sources to be shown on the TV screen at the same time. Each source is given half the screen.



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.

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

- Press the **PIP** button.
- 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

- In PIP mode, press the ▲ ▼ ◄ ► button to move the sub picture to a different location on the screen.

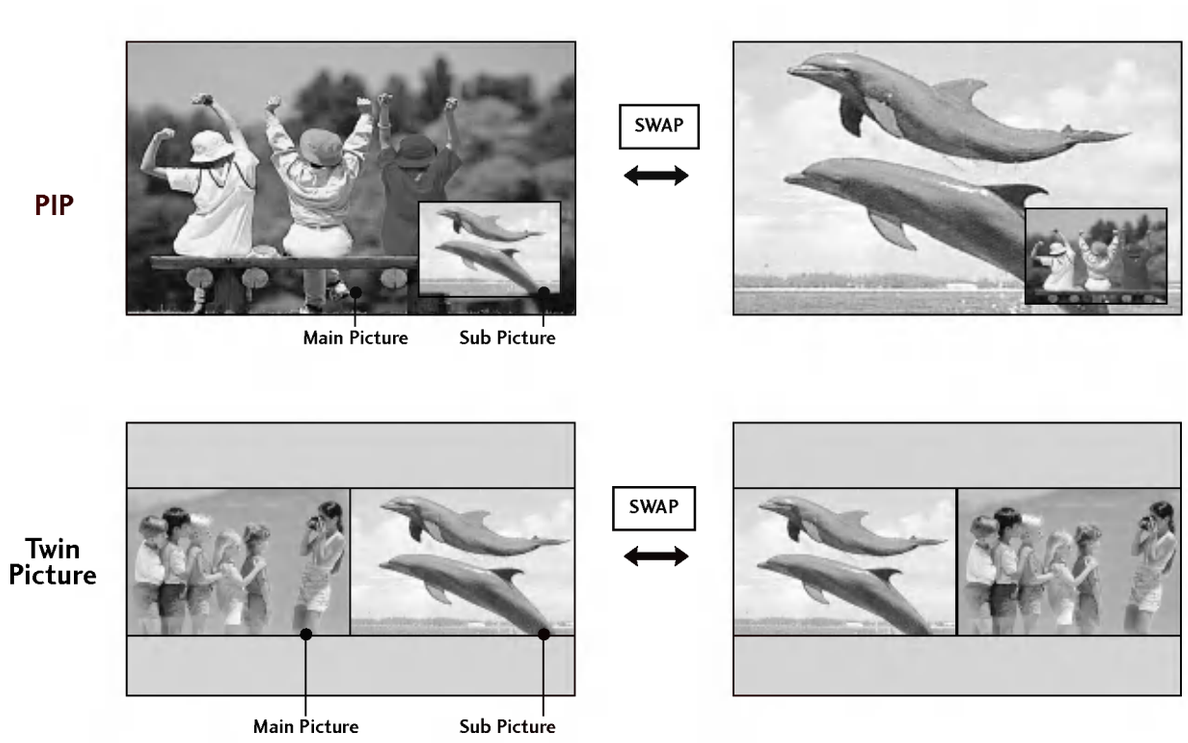


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Swapping the PIP/Twin Picture

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

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.



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.

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

NOTE

▶ Run Auto programme before using POP mode.

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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.

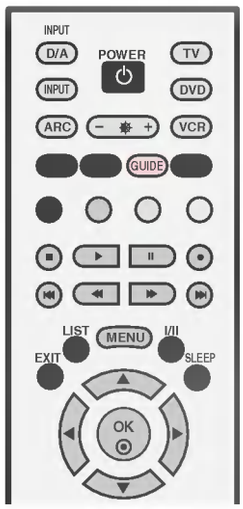
b. In the teletext mode, press this button to select a sub page number. The sub page number is displayed at the bottom of the screen. To hold or change the sub page, press the **RED**, **GREEN**, or **PR +/-** buttons.

Press this function again to exit.

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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.

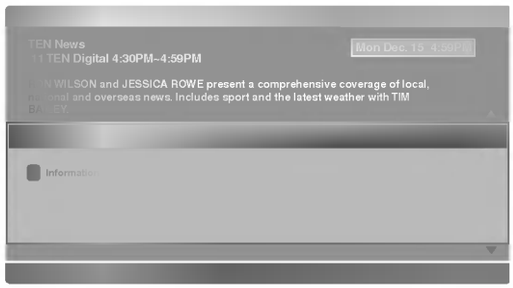
Switch on/off EPG

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

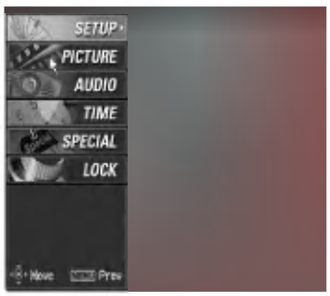
ON SCREEN MENUS SELECTION AND ADJUSTMENT

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*.

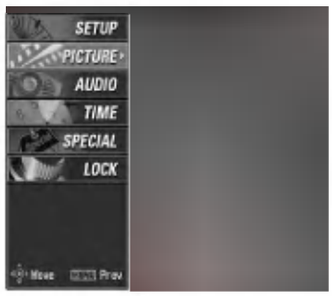
Press the **MENU** button and then use ▲ or ▼ button to select the each menu.

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

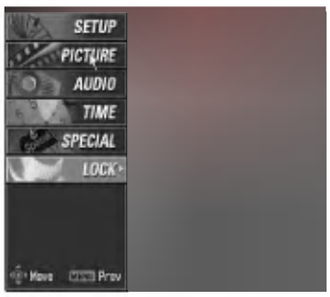
SETUP



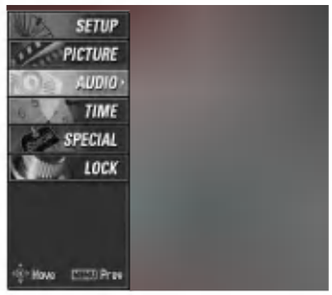
PICTURE



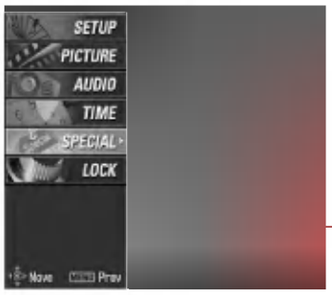
LOCK



AUDIO



SPECIAL



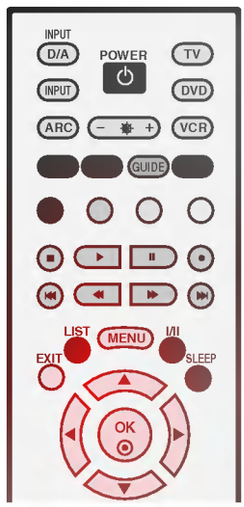
Only 42PC1D*, 50PC1D*, 60PC1D* models

TIME



TV MENU | SETUP(Programme)

AUTO PROGRAMME TUNING

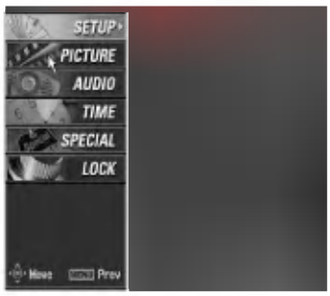


Up to 100 TV stations can be stored in this set by programme numbers (0 to 99). Once you have preset the stations, you will be able to use the **PR + / -** or NUMBER buttons to scan the stations you programmed. Stations can be tuned using automatic or manual modes.

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.



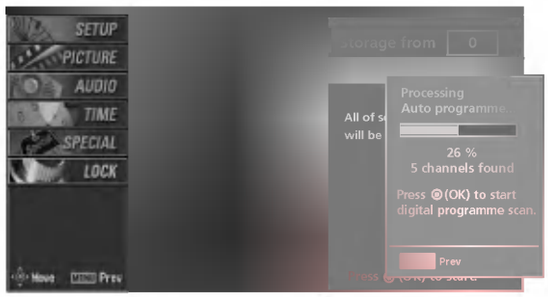
- Press the **MENU** button and then ▲ or ▼ button to select the SETUP menu.

- Press the ▶ button and then ▲ or ▼ button to select **Auto programme**.



- Press the ▶ button to select **Storage from**. Select the beginning programme number with the ▲ ▼ button or NUMBER buttons.

- Press the ▶ button to select **To start**.



- Press the **OK** button to begin auto programming. All receivable stations are stored.

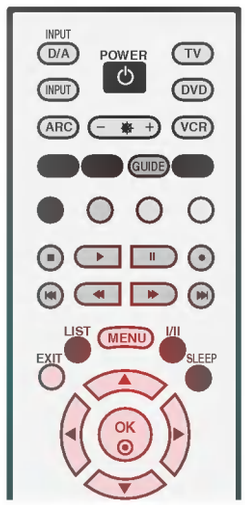
  To stop auto programming, press the **OK** button. When auto programming is completed, the **Programme edit** menu appears on the screen. See the 'Programme Edit' section to edit the stored programme.

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

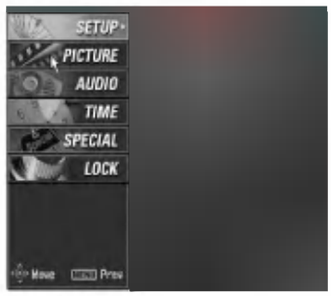
MANUAL PROGRAMME TUNING

In Digital Mode

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

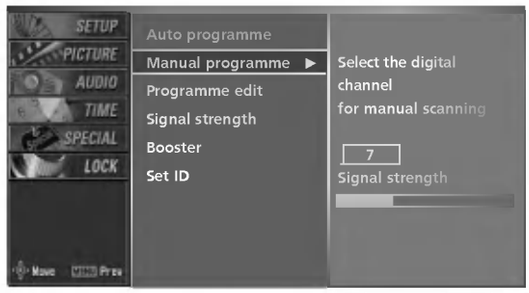


Press the **MENU** button and then use ▲ or ▼ button to select the **SETUP** menu.



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

Press the ▶ button and then use ▲ or ▼ button to select the progaramme number you want to add.



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**.

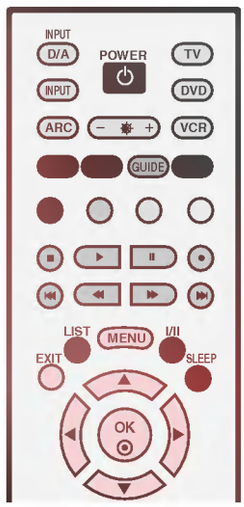
When the programme is stored, the Programme edit menu appears on the screen. See the 'Programme Edit' section to edit the stored programme.



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

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MANUAL PROGRAMME TUNING Continued

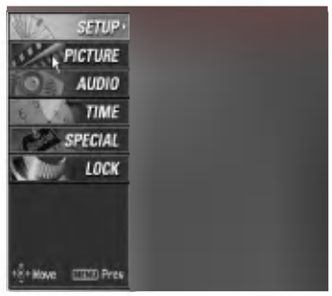


In Analogue Mode

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.

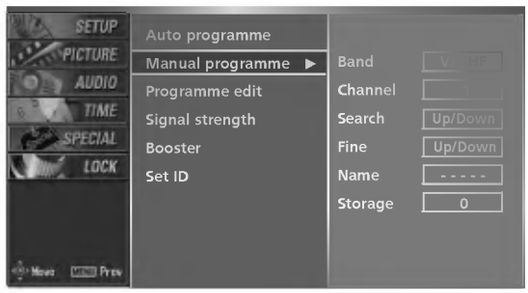
2. Press the ▶ button and then use ▲ or ▼ button to select **Manual programme**.



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

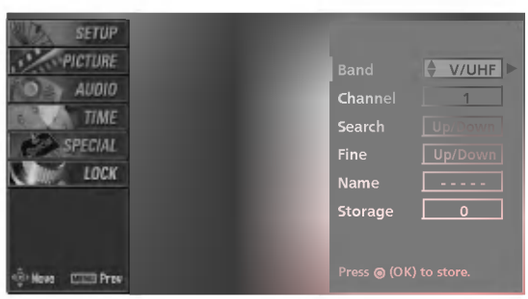
4. Press the ▶ button to select **Channel**. Press the ▲ or ▼ button to select the desired channel number.

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.

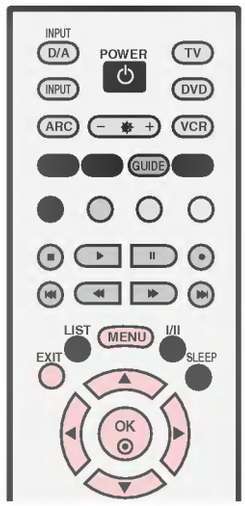


8. To store another station, repeat steps 3 to 7.

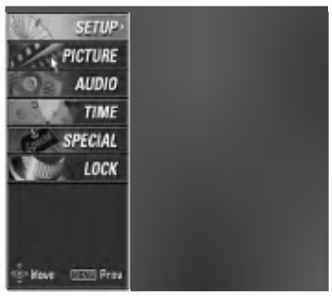
9. Press **EXIT** button to return to normal TV viewing.

FINE TUNING - *In Analogue Mode only*

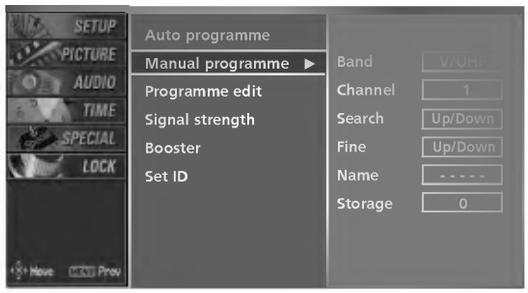
Normally fine tuning is only necessary if reception is poor.
The finely tuned programme will be indicated by a yellow number during programme selection.



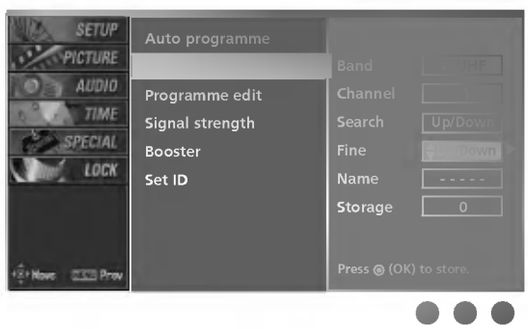
- Press the **MENU** button and then use ▲ or ▼ button to select the **SETUP** menu.



- Press the ► button and then use ▲ or ▼ button select **Manual programme**.
- Press the ► button and then ◄ or ► button to select **Fine**.
- Press the ▲ or ▼ button to fine tune for the best picture and sound.

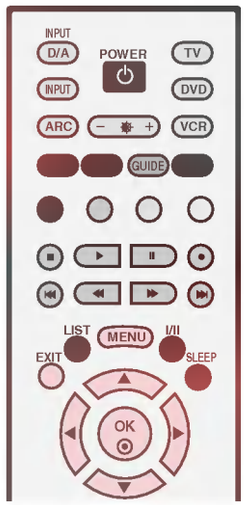


- Press the **OK** button to store.



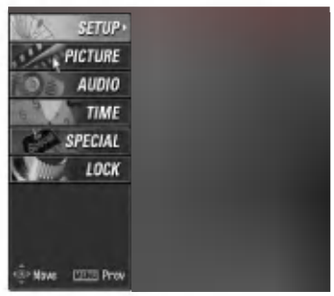
- Press **EXIT** button to return to normal TV viewing.

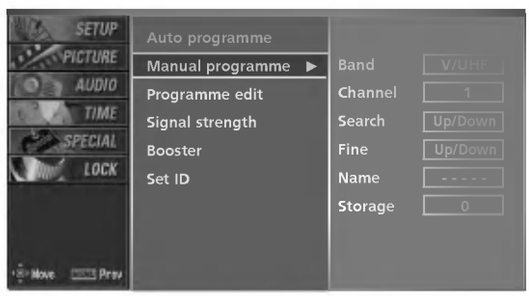
ASSIGNING A STATION NAME - *In Analogue Mode only*



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

- Press the **MENU** button and then use ▲ or ▼ button to select the **SETUP** menu.
- Press the ► button and then use ▲ or ▼ button to select **Manual programme.**
- Press the ► button and then use ◄ or ► button to select **Name**.
- Press the ▲ or ▼ button. You can use the numeric **0** to **9**, the alphabet **A** to **Z** +, -, and blank.
- Press the ◄ or ► button to select the position and make your choice of the second character, and so on.
- Press the **OK** button to store.
- Press **EXIT** button to return to normal TV viewing.

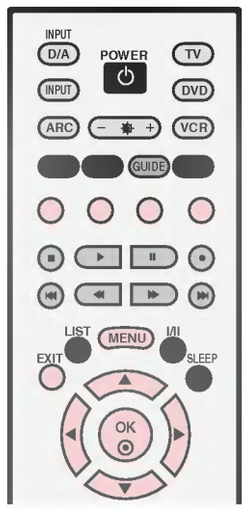






PROGRAMME EDIT

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.

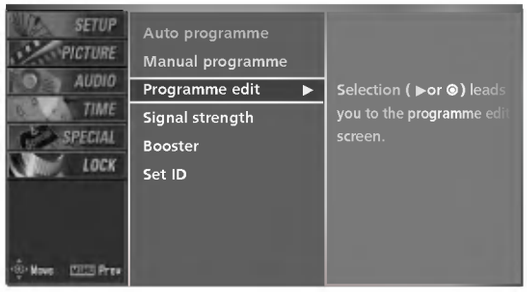


Press the **MENU** button and then use ▲ or ▼ button to select the **SETUP** menu.



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

Press the ► button.



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

a. Select a programme to be deleted with the ▲ ▼ ◄ ► button.

b. 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)**

a. Select a programme to be copied with the ▲ ▼ ◄ ► button.

b. Press the **GREEN** button.

c. Move the programme to the desired programme number with the ▲ ▼ ◄ ► button.

d. Press the **GREEN** button again to copy the programme. All the following programmes are shifted down one position.



TV MENU | SETUP(Programme)

■ Moving a programme (In Analogue Mode Only)

a. Select a programme to be moved with ▲ ▼ ◄ ► button.

b. Press the **YELLOW** button.

c. Move the programme to the desired programme number with the ▲ ▼ ◄ ► button.

d. Press the **YELLOW** button again to release this function.

■ Skipping a programme number

a. Select a programme number to be skipped with ▲ ▼ ◄ ► button.

b. Press the **BLUE** button. The skipped programme number turns to blue.

c. 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

a. 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

Select a programme with the ▲ ▼ ◄ ► button.

The set switches to the chosen programme number.

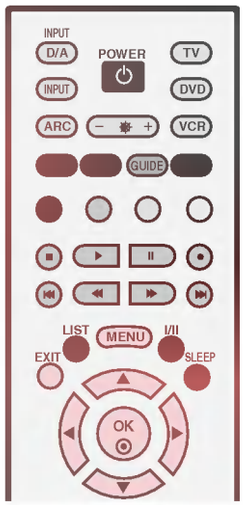
Paging through a programme table

Press the **PR+ / -** button to changes current page into previous/next page.

Press the **LIST** button to return to normal TV viewing.

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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.

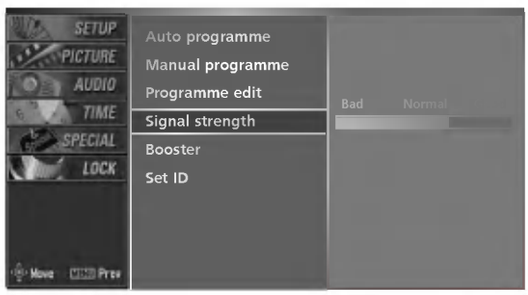
Digital TV Signals; May not be available in all areas, nor broadcast all programmes.

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



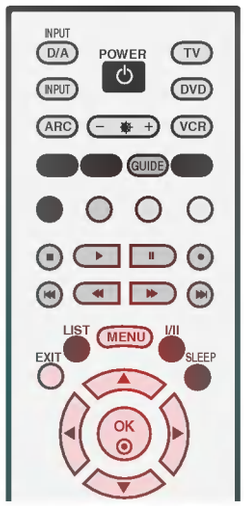
- Press the ► button and then use ▲ or ▼ button to select **Signal strength**.

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

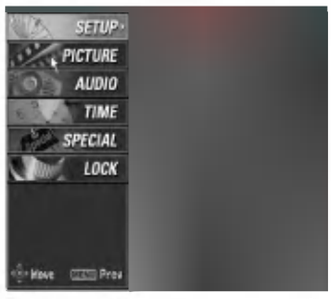


BOOSTER - *In Digital Mode only*

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**.



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



- Press the ▶ button and then use ▲ or ▼ button to select **Booster**.

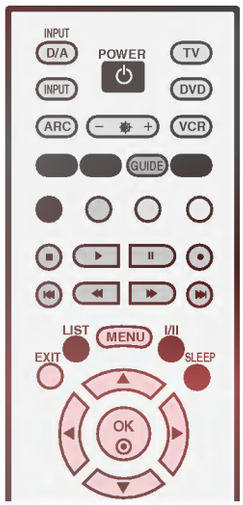
- Press the ▶ button and then use ▲ or ▼ button to select **Off** or **On**.



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

TV MENU | PICTURE ADJUSTMENT

PICTURE STATUS MEMORY (PSM)

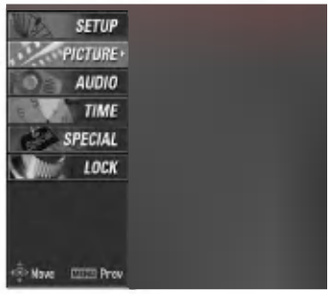


This function adjusts the set to the best picture appearance.

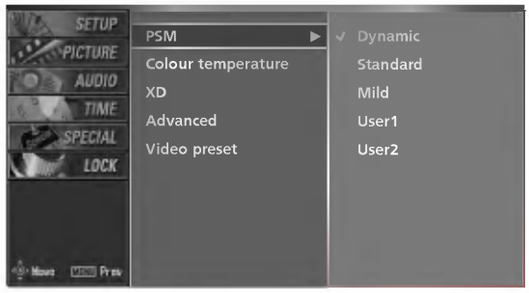
When adjusting picture options (contrast, brightness, colour, sharpness and tint) manually, PSM is automatically changed to User.

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

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



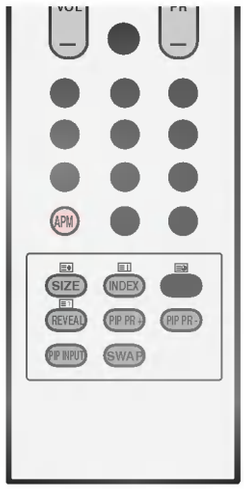
- Press the ► button and then use ▲ or ▼ button to select **PSM**.
- Press the ► button and then use ▲ or ▼ button to select **Dynamic**, **Standard**, **Mild**, **User1**, or **User2**.



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

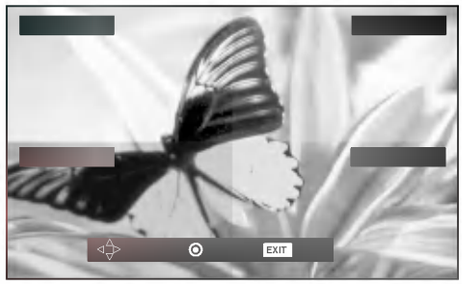
ADAPTIVE PICTURE MODE (APM)

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



Press the **APM** button at once. The screen is divided to 4-split.

Use the ▲ ▼ ◄ ► button to navigate 4 screen.
By pressing the **OK** button, you can select the desired mode.

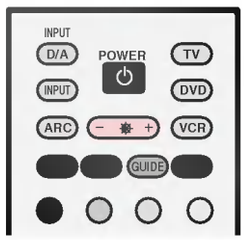


NOTE

- 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.

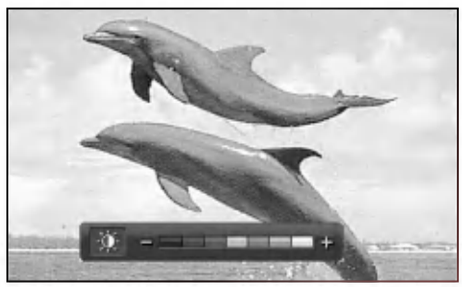
BRIGHTNESS ADJUSTMENT

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



Press the button.

Adjust the desired screen brightness.



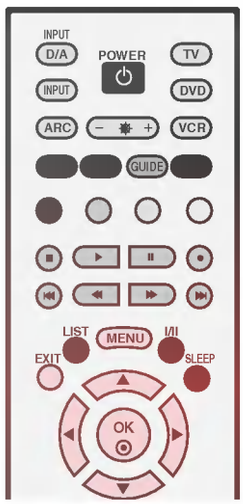
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MANUAL PICTURE CONTROL (PSM-User option)

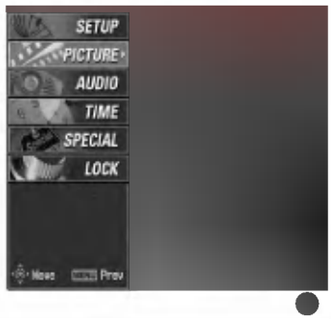
You can adjust picture Contrast, Brightness,Colour, Sharpness, and Tint options to the levels you prefer.

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.

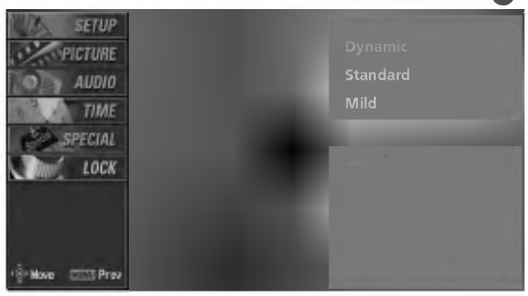


- Press the **MENU** button and then use ▲ or ▼ button to select the **PICTURE** menu.



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

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

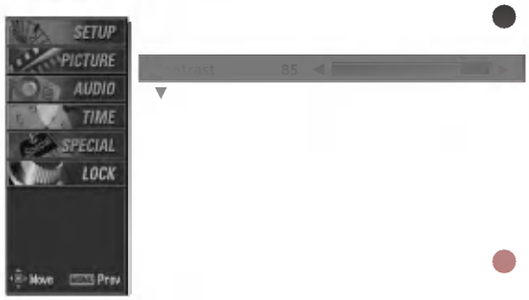


- Press the ▶ button and then use ▲ or ▼ button to select the desired picture option **(Contrast, Brightness, Colour, Sharpness,** or **Tint)**.

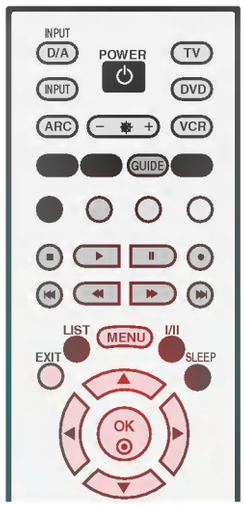
- Press the ▶ button and then use ◀ or ▶ button to make appropriate adjustments.



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



XD



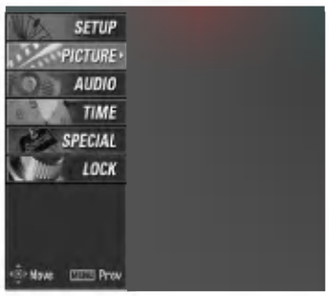
XD is LG Electronic's unique picture improving technology to display a real HD source through an advanced digital signal processing algorithm.

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.

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



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

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

Selecting the Manual

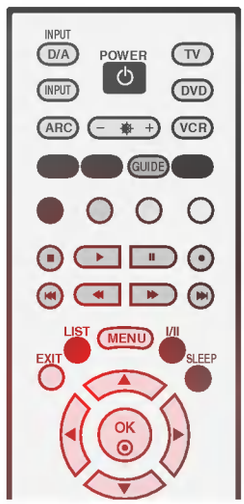
1. Press the ▶ button and then use ◀ or ▶ button to select **XD contrast**, **XD colour** or **XD noise**.
   - **XD contrast:** Optimizing the contrast automatically according to the brightness of the reflection.
   - **XD colour:** Adjusting the colors of the reflection automatically to reproduce as 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**.



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

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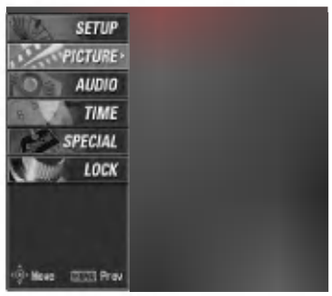
COLOUR TEMPERATURE CONTROL

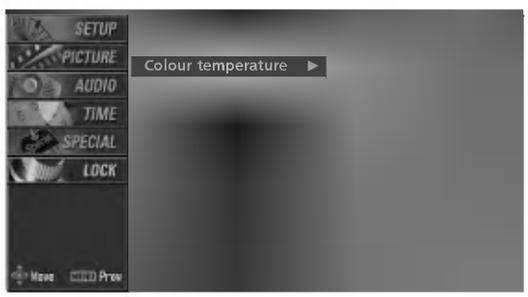


Auto Colour Temperature Control

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.

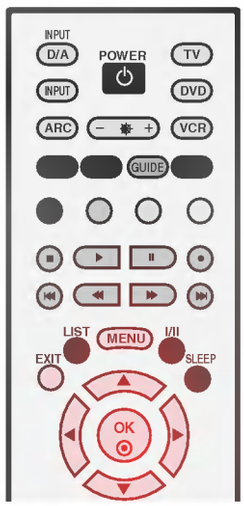
- Press the **MENU** button and then use ▲ or ▼ button to select the **PICTURE** menu.
- Press the ▶ button and then use ▲ or ▼ button to select **Colour temperature**.
- Press the ▶ button and then use ▲ or ▼ button to select either **Warm**, **Medium**, **Cool**, or **User**.
- Press **EXIT** button to return to normal TV viewing.



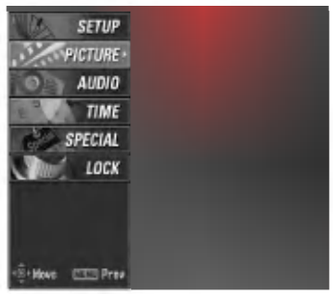


Manual Colour Temperature Control

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

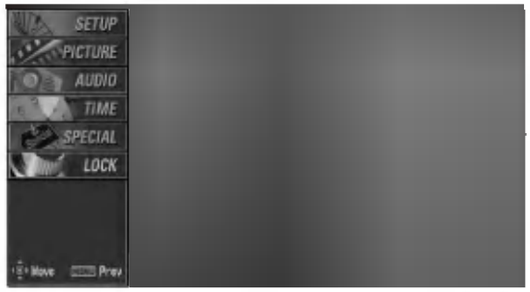


Press the **MENU** button and then use ▲ or ▼ button to select the **PICTURE** menu.



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

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

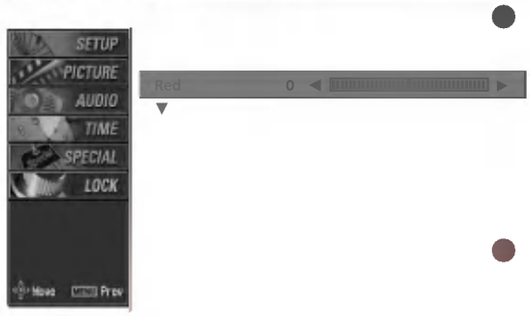


Press the ► button and then use ▲ or ▼ button to select **Red**, **Green**, or **Blue**.



Press the ► button and then use ◄ or ► button to make appropriate adjustments.

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



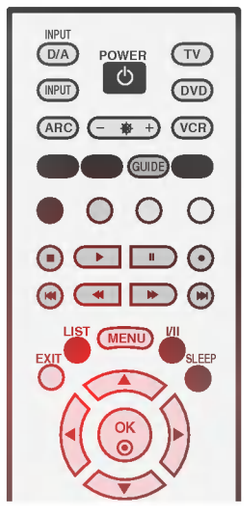
Press **EXIT** button to return to normal TV viewing.

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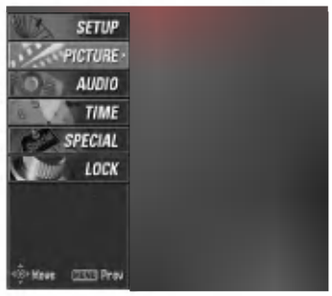
ADVANCED-CINEMA

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

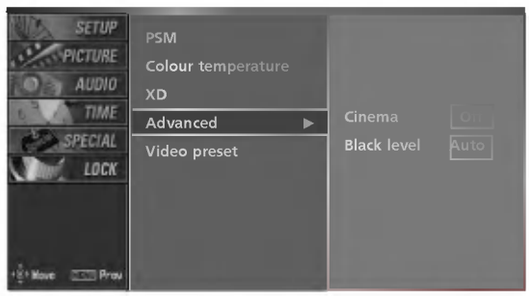
This feature operates only in AV1, AV2, and Component480i mode.



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



- Press the ▶ button and then use ▲ or ▼ button to select **Advanced**.
- Press the ▶ button and then use ▲ or ▼ button to select **Cinema**.
- Press the ▶ button and then use ▲ or ▼ button to select **On** or **Off**.

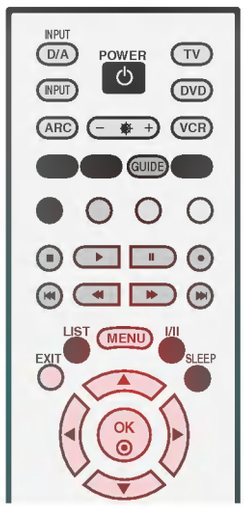


- Press **EXIT** button to return to normal TV viewing.

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.

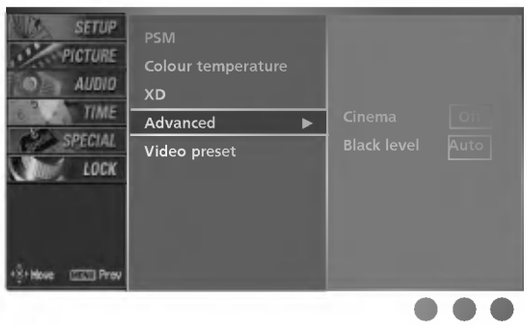


Press the **MENU** button and then use ▲ or ▼ button to select the **PICTURE** menu.



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

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



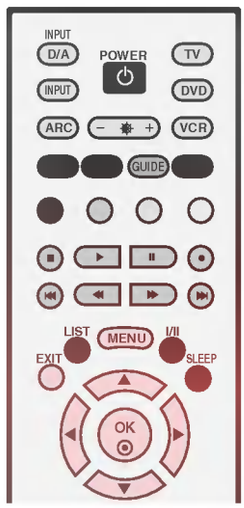
Press the ► button and then use ▲ or ▼ button to select **Auto**, **Low**, or **High**.

- **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.

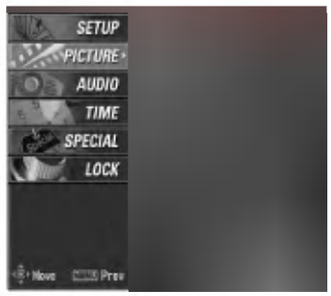
Press **EXIT** button to return to normal TV viewing.

VIDEO PRESET

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



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



- Press the ▶ button and then use ▲ or ▼ button to select **Video preset**.

- Press the ▶ button to reset the picture menu options to original values.



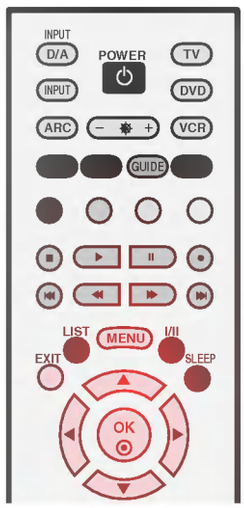
TV MENU | AUDIO ADJUSTMENT

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.

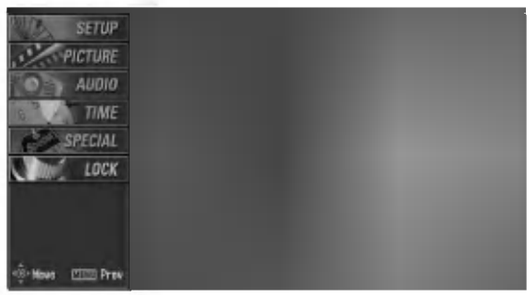
Standard, Music, Movie, and Sports are preset for good sound quality at the factory and are not adjustable.



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



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

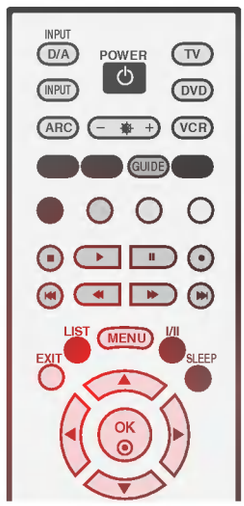


- Press **EXIT** button to return to normal TV viewing.

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MANUAL SOUND CONTROL (SSM-User option)

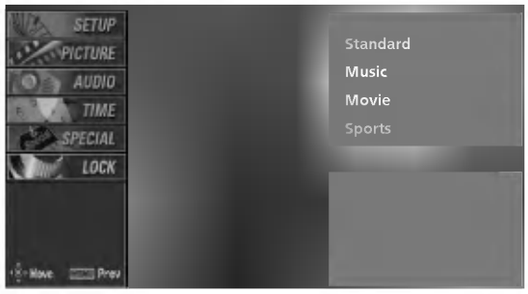
Adjust the sound to suit your taste and room situations.



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



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



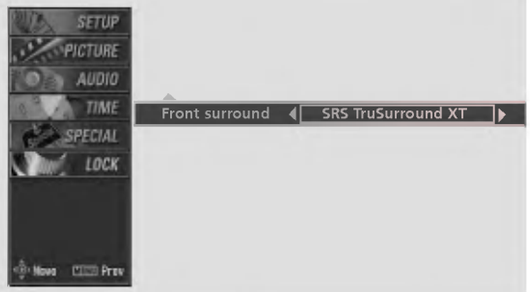
- Press the ► button and then use ▲ or ▼ button to select the desired sound option (**Treble**, **Bass**, or **Front surround**).



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**.



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

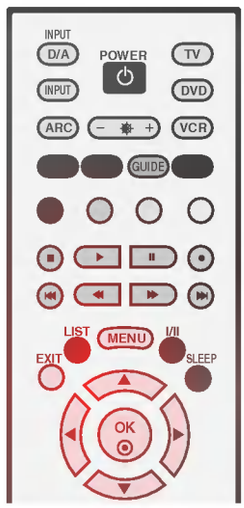
SRS TruSurround XT

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.

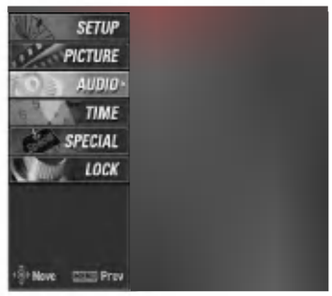
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AUTO VOLUME LEVELLER (AVL)

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



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



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

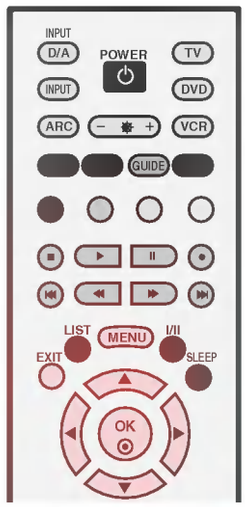
- Press the ► button and then use ▲ or ▼ button to select **Off** or **On**.



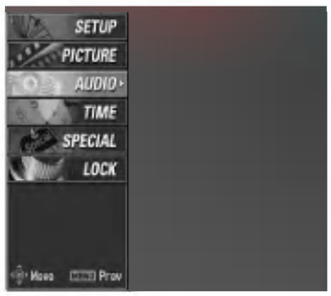
- Press **EXIT** button to return to normal TV viewing.

BALANCE

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



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

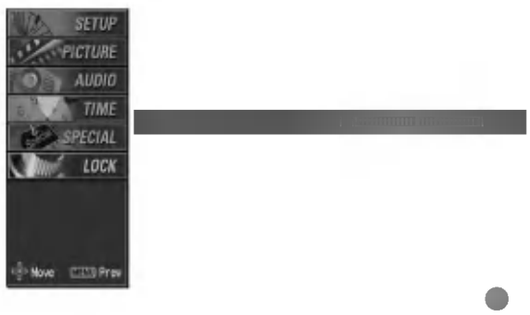


- Press the ► button and then use ▲ or ▼ button to select **Balance**.

- Press the ► button and then use ◄ or ► button to make appropriate adjustments.



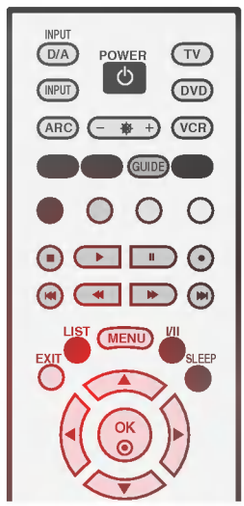
- Press **EXIT** button to return to normal TV viewing.



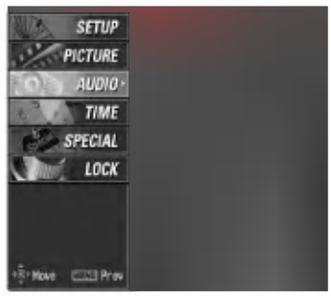
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TV SPEAKERS ON/OFF SETUP

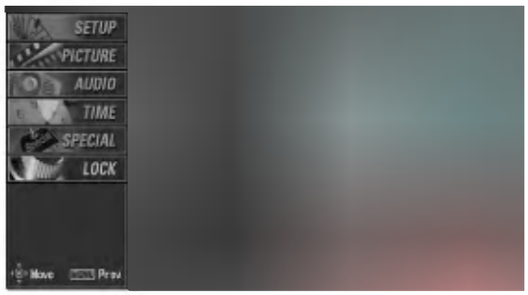
Turn the TV speakers off if using external audio equipment.
In AV1-2, Component1-2, RGB PC/DTV and HDMI/DVI mode, the audio signal can be outputted even though there is no video signal.



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



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



- 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.

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.

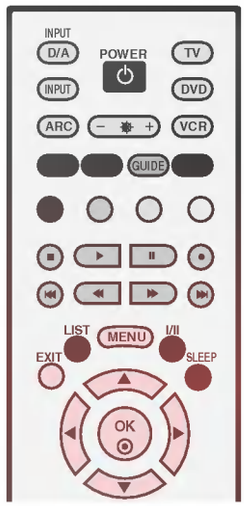
NOTE

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

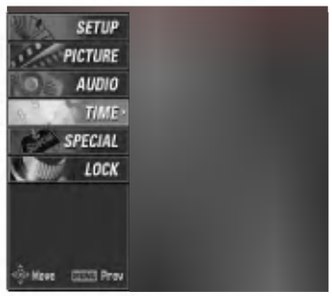
TV MENU | TIME SETTING

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.



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

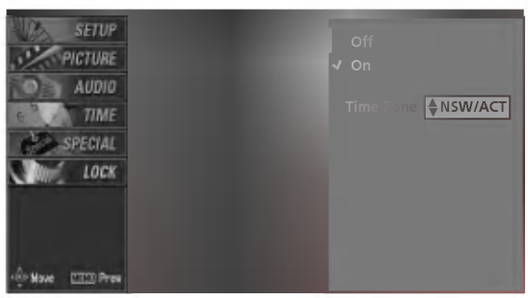


- Press the ► button and then use ▲ or ▼ button to select **Auto clock**.

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



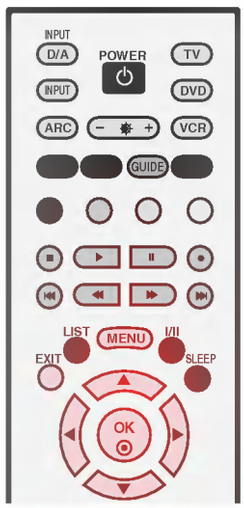
- Press the ► button and then use ▲ or ▼ button to select your viewing area time zone:
  NSW/ACT, **NT**, **TAS**, **WA**, **SA**, **QLD**, or **VIC**.



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

MANUAL CLOCK SETUP

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



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



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

- 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.



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

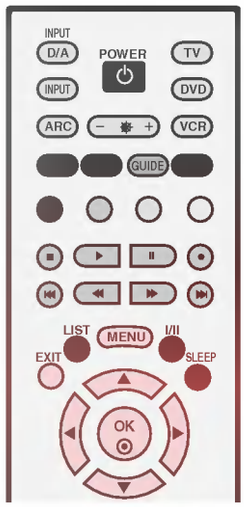
ON/OFF TIME SETUP

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

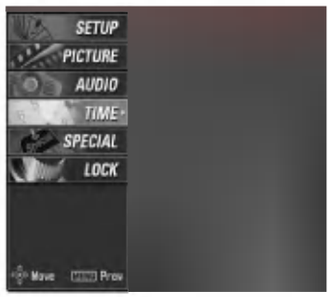
The Off-Time function overrides the On-Time function if they are both set to the same time.

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.



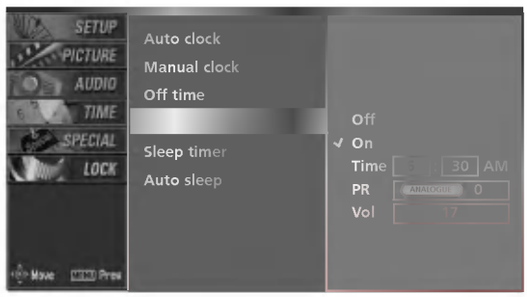
Press the **MENU** button and then use ▲ or ▼ button to select the **TIME** menu.



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

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

■ To cancel the **On/Off time** function, select **Off**.



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

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

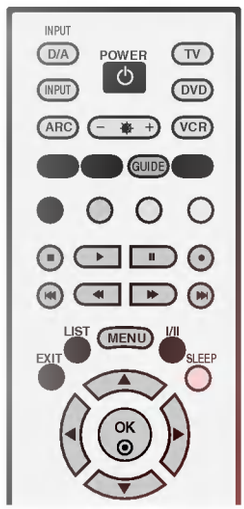
Only On time

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.

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

SLEEP TIMER

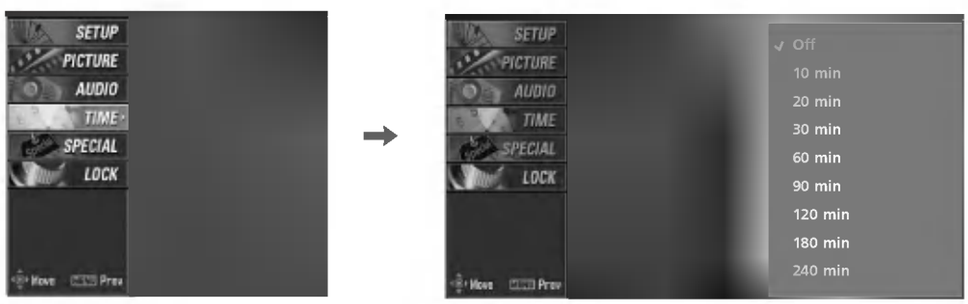


You don't have to remember to switch the set off before you go to sleep.

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

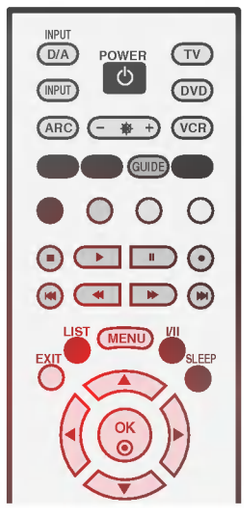
- Press the **SLEEP** button repeatedly to select the number of minutes. First the **Off** option appears on the screen, followed by the following sleep timer options : 10, 20, 30, 60, 90, 120, 180, and 240 minutes.
- When the number of minutes you want is displayed on the screen, press the **SLEEP**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

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



AUTO SLEEP

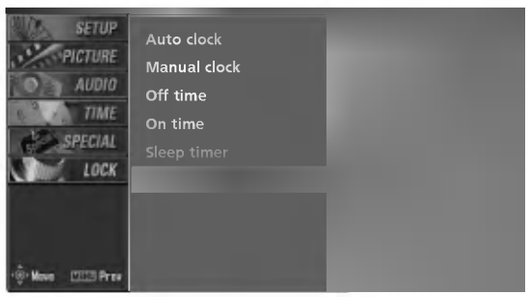
If set to on and there is no input signal, the TV turns off automatically after 10 minutes.



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



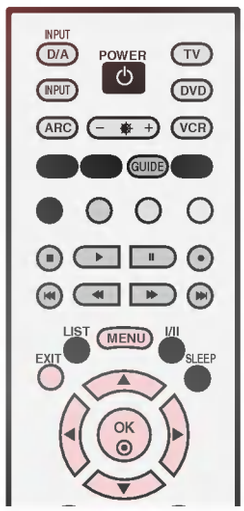
- Press the ► button and then use ▲ or ▼ button to select **Auto sleep**.
- Press the ► button and then use ▲ or ▼ button to select **Off** or **On**.



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

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.

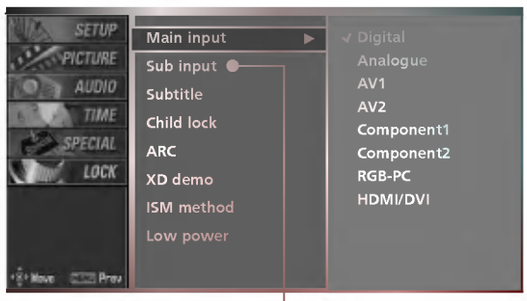
Press the D/A INPUT button to select digital or analogue mode.

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



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

- 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.



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

Sub Picture Source Selection

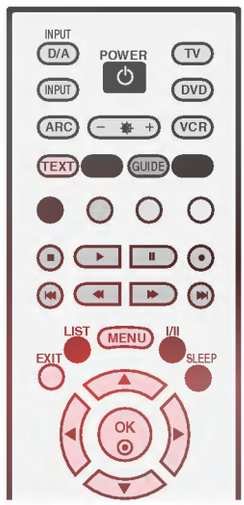
Select sources for the **Sub Input** in the **SPECIAL** menu.

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

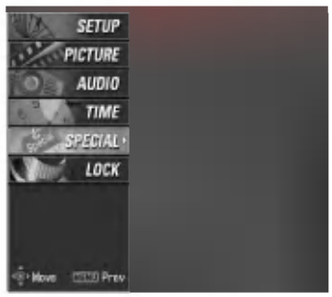
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SUBTITLE - *In Digital Mode only*

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

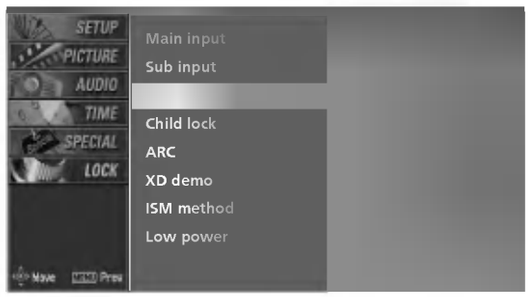


- Press the **MENU** button and then use ▲ or ▼ button to select the **SPECIAL** menu.



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

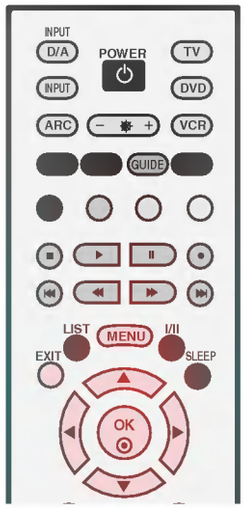
- Press the ► button and then use ▲ or ▼ button to select **Off** or **On**.



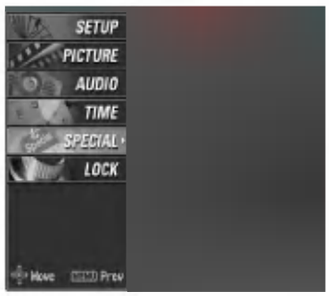
- Press **EXIT** button to return to normal TV viewing.

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.

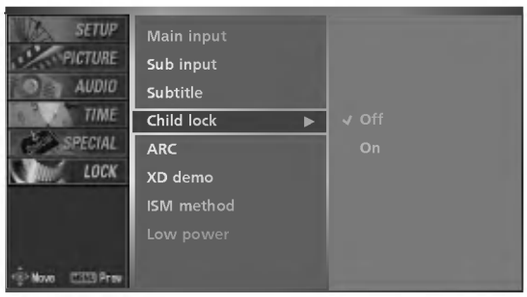


Press the **MENU** button and then use ▲ or ▼ button to select the **SPECIAL** menu.



Press the ▶ button and then use ▲ or ▼ button to select **Child lock**.

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

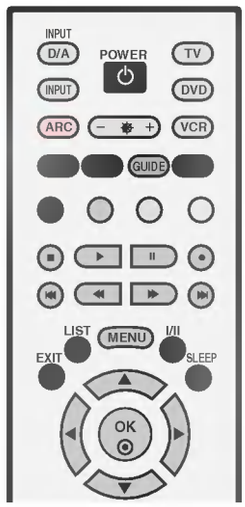


Press **EXIT** button to return to normal TV viewing.

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.

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.

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.

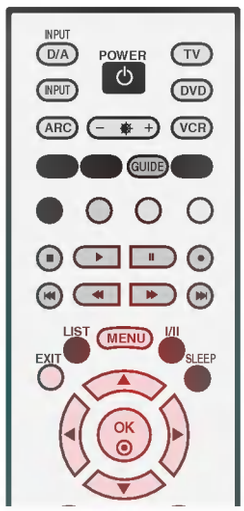
The adjustment range is 1-16.

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 compairing the four different picture (Dynamic, Standard, Mild, and User1 (or User2)) settings.

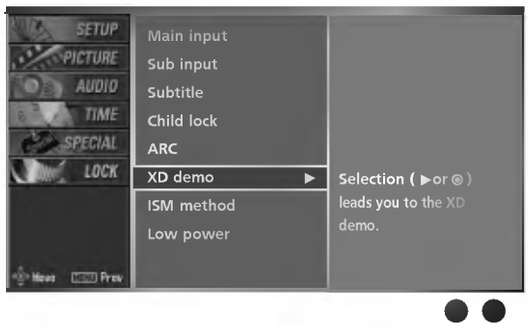


Press the **MENU** button and then use ▲ or ▼ button to select the **SPECIAL** menu.

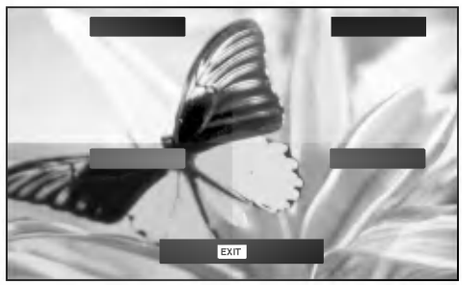


Press the ▶ button and then use ▲ or ▼ button to select **XD demo**.

Press the ▶ button to start **XD demo**.



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

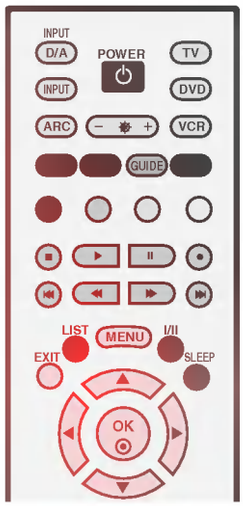


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ISM (Image Sticking Minimization) METHOD

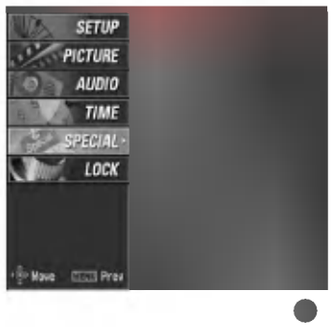
- 42PC1D, 50PC1D* , 60PC1D*only*

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.

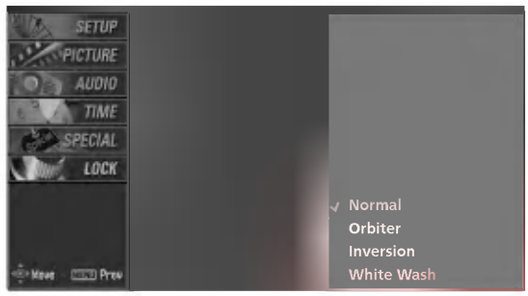


1. Press the **MENU** button and then use ▲ or ▼ button to select the **SPECIAL** menu.

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.

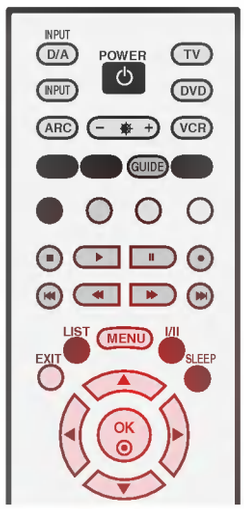
NOTE

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

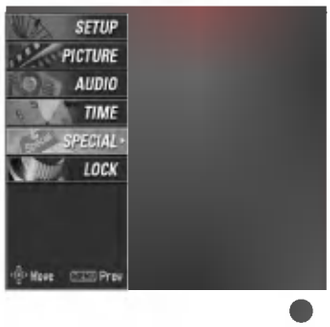
4. Press **EXIT** button to return to normal TV viewing.

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

Low power reduces the plasma display power consumption.



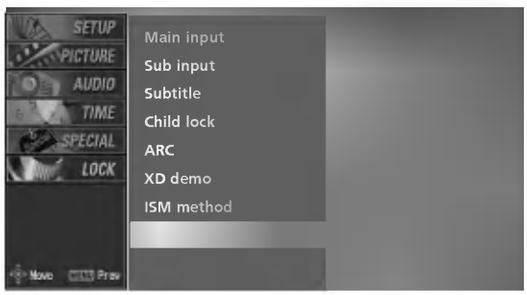
Press the **MENU** button and then use ▲ or ▼ button to select the **SPECIAL** menu.



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

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

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



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

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.

- 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.

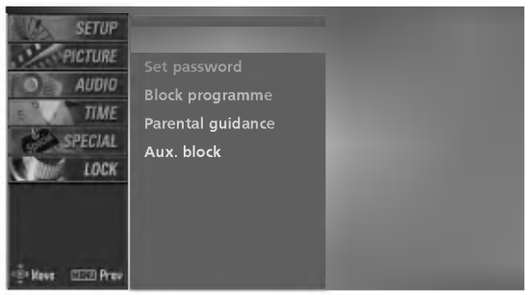
- After inputting the password, use the ▲ or ▼ button to choose **Lock system**.

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

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

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





SET PASSWORD

Change the password by inputting a new password twice.

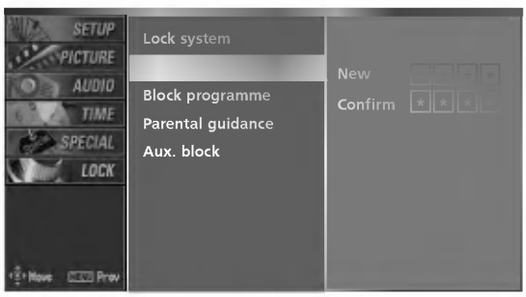
After inputting the password, use the ▲ or ▼ button to choose **Set password**.

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.

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.

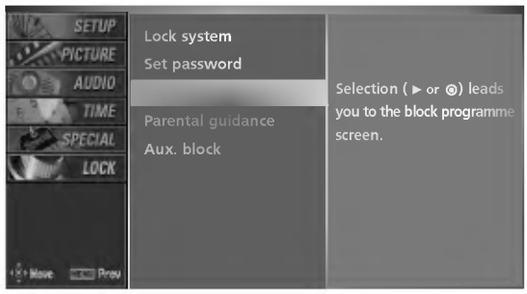
BLOCK PROGRAMME

Select a channel number that you wish to block.

- After inputting the password, use the ▲ or ▼ button to choose **Block programme**.



- Press the ► button. You will now see a screen filled with channel numbers and a preview picture.

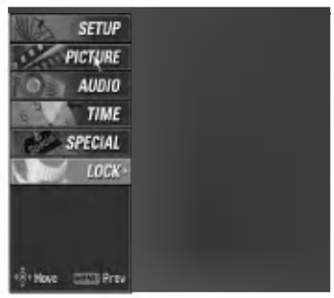


- Use ▲ ▼ ◄ ► button to select a channel and then use the **OK** button to block or unblock it.
- Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



PARENTAL GUIDANCE *- In Digital Mode only*

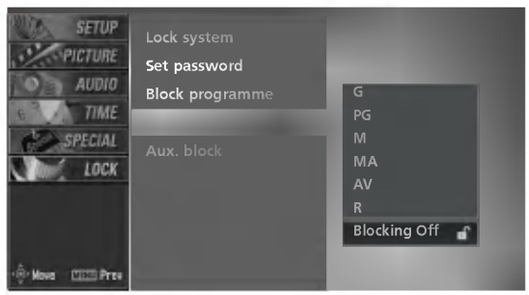
Prevents children from watching certain children's TV programs, according to the ratings limit set.



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

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)



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

AUX. BLOCK

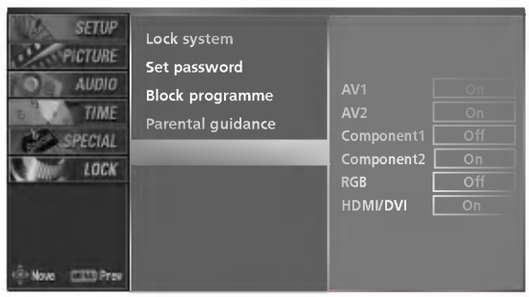
Enables you to select a source to block from the external source devices you have hooked up.



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

Press the ► button and then use the ◄ or ► button to select a source.

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



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

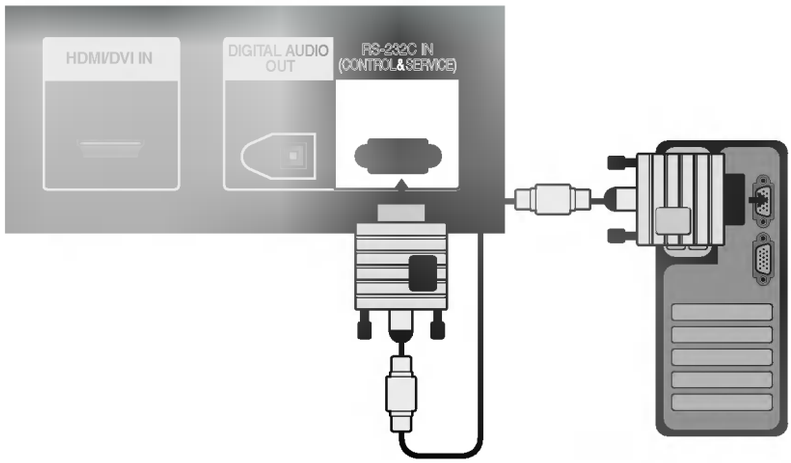
APPENDIX

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.

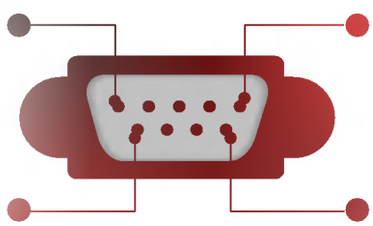
Note: RS-232C connection cables are not supplied with the TV.

RS-232C Setup

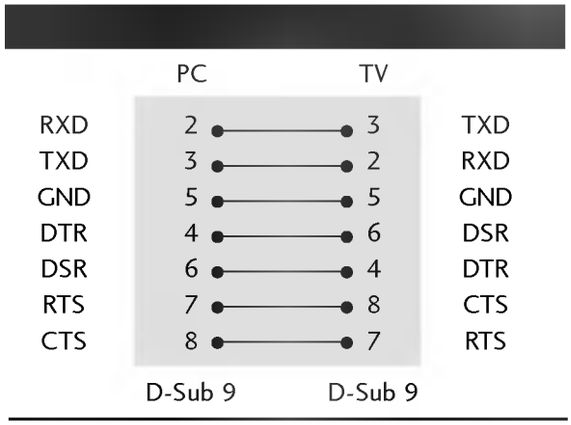


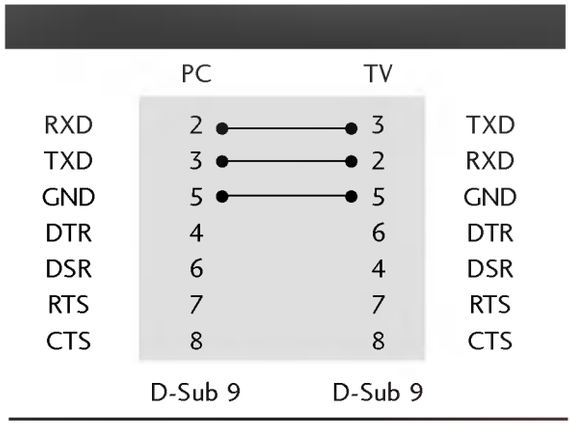
Type of Connector; D-Sub 9-Pin Male

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





Set ID

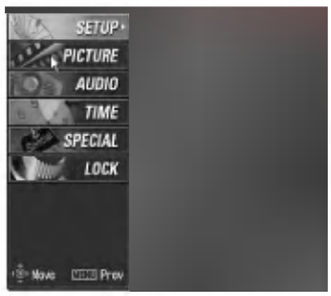
Use this function to specify a TV ID number.
Refer to 'Real Data Mapping1'. See page 89.

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

Press the ▶ button and then use ▲ or ▼ button to select **Set ID**.

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.

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





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

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

[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 seIDtochoosedesired 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)'

[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.

[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 1: Analogue
Data 2: AV1
Data 3: AV2
Data 4: Component 1
Data 5: Component 2
Data 6: RGB-DTV
Data 7: RGB-PC
Data 8: HDMI/DVI

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

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

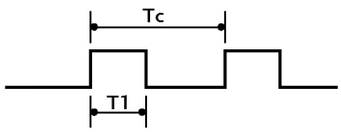
1. How to Connect

■ 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

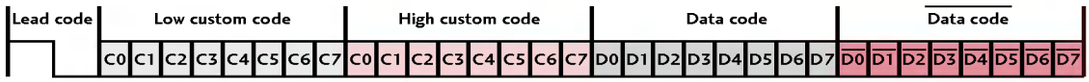


Carrier frequency

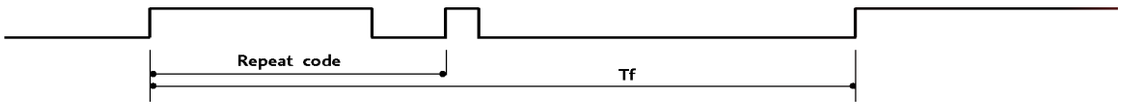
FCAR = 1/TC = fOSC/12
Duty ratio = T1/TC = 1/3

■ Configuration of frame

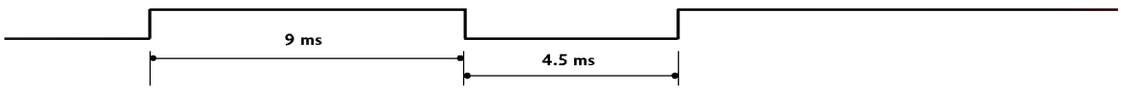
1 st frame



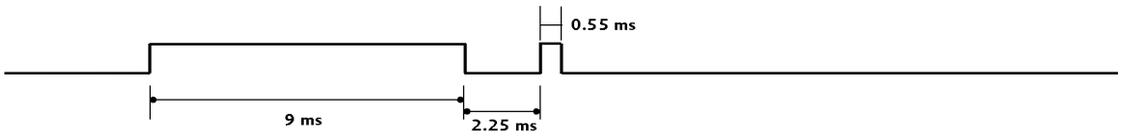
Repeat frame



■ Lead code

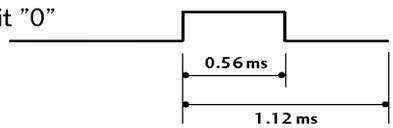


■ Repeat code

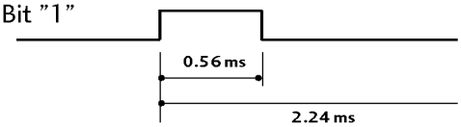


■ Bit description

Bit "0"

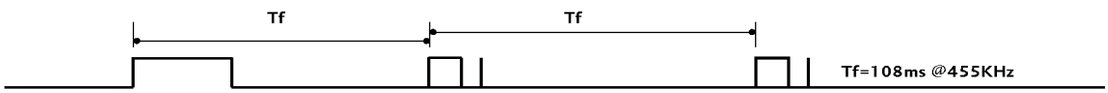


Bit "1"



■ Frame interval: Tf

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



APPENDIX

50	D/A INPUT	Remote control Button		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		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		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		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		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		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		POWER OFF	Discrete IR Code
92	APM	Remote control Button			(Only Power Off)
A9	GUIDE	Remote control Button		LIST	Remote control Button
64	SIZE	Remote control Button	0A	I/II	Remote control Button
70	INDEX	Remote control Button		INFO	Remote control Button
26	TIME	Remote control Button	E1	– ☼	Remote control Button
2A	REVEAL	Remote control Button		☼ +	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

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

VCRs

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

DVD

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 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.

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).

Picture OK & No sound	■ Press the VOL or VOLUME button. ■ Sound muted? Press MUTE button. ■ Try another channel. The problem may be with the broadcast. ■ Are the audio cables installed properly?
No output from one of the speakers	■ Adjust Balance in menu option.
Unusual sound from inside the product	■ A change in ambient humidity or temperature may result in an unusual noise when the product is turned on or off and does not indicate a fault with the product.

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

APPENDIX

PRODUCT SPECIFICATIONS

Dimensions (Width x Height x Depth)	Including stand	31.9 x 24.8x 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 x26.0 x 5.1 inches 944.0 x 659.3 x 129.7 mm	41.5 x 29.4x 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		AC100-240V ~ 50/60Hz		
Television System		PAL B/G, DVB-T		
Program Coverage		VHF 0-12, UHF 20-75, CATV 02-44, DTV 06-12, 27-69		
External Antenna Impedance		75 ohm		
Environment condition	Operating Temperature	32 ~ 104°F (0 ~ 40°C)		
	Operating Humidity	Less than 80%		
	Storage Temperature	-4 ~ 140°F (-20 ~ 60°C)		
	Storage Humidity	Less than 85%		

Dimensions (Width x Height x Depth)	Including stand	44.4 x 29.5x 15.0 inches 1129.0 x 748.5 x 380.0mm	44.4 x 29.5x 15.0 inches 1129.0 x 748.5 x 380.0 mm	51.3 x 34.3 x 14.0 inches 1302.6 x 872.0 x 355.8 mm	60.8 x 40.8 x 16.0 inches 1544.0 x 1035.5 x 408.2 mm
	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 119.2 mm
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		AC100-240V ~ 50/60Hz			
Television System		PAL B/G, DVB-T			
Program Coverage		VHF 0-12, UHF 20-75, CATV 02-44, DTV 06-12, 27-69			
External Antenna Impedance		75 ohm			
Environment condition	Operating Temperature	32 ~ 104°F (0 ~ 40°C)			
	Operating Humidity	Less than 80%			
	Storage Temperature	-4 ~ 140°F (-20 ~ 60°C)			
	Storage Humidity	Less than 85%			

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

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