

LCD TV

MODELS: 32LC2D 37LC2D 42LC2D

PLASMA TV

MODELS: 42PC3D 42PC3DV 50PC3D

OWNER'S MANUAL



Internet Home Page : http://www.lge.com http://www.lg.ca

ENERGYSTAR is a set of power-saving guidelines issued by the U.S. Environmental Protection Agency(EPA).



As an ENERGY STAR Partner LGE U. S. A.,Inc. has determined that this product meets the ENER-GY STAR guidelines for energy efficiency. Please read this manual carefully before operating your set. Retain it for future reference. Record model number and serial number of the set. See the label attached on the back cover and quote this information to your dealer when you require service.

> P/NO : 38289U0527B (0601-REV01) Printed in Korea

Warning



CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN



WARNING:

TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

NOTE TO CABLE/TV INSTALLER:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

REGULATORY INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CAUTION:

Do not attempt to modify this product in any way without written authorization from LG Electronics Corporation. Unauthorized modification could void the user's authority to operate this product.

U.S.A. only -----COMPLIANCE:

The responsible party for this product's compliance is: LG Electronics U.S.A., Inc. 1000 Sylvan Avenue, Englewood Cliffs, NJ 07632 Phone: 1-800-243-0000 http://www.lgusa.com

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Safety Instructions

WARNING :

To Reduce The Risk Of Fire Or Electric Shock, Do Not Expose This Apparatus To Rain Or Moisture.

Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

IMPORTANT SAFETY INSTRUCTIONS

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.



6. Clean only with a dry cloth.



7. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.



8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



- 9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.



11. Only use the attachments / accessories specified by the manufacturer.

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



13. Unplug this apparatus during lightning storms or when unused for long periods of time.



14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



Note

- If the TV feels cold to the touch, there may be a small "flicker" when 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.

CAUTION concerning the Power Cord

Most appliances recommend they be placed upon a dedicated circuit; that is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain.

Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized servicer.

Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance.

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.

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

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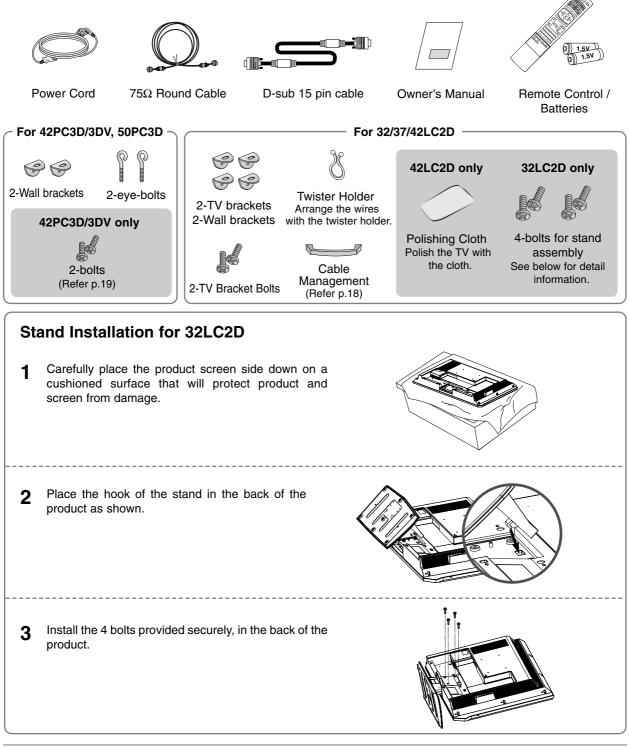
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Introduction

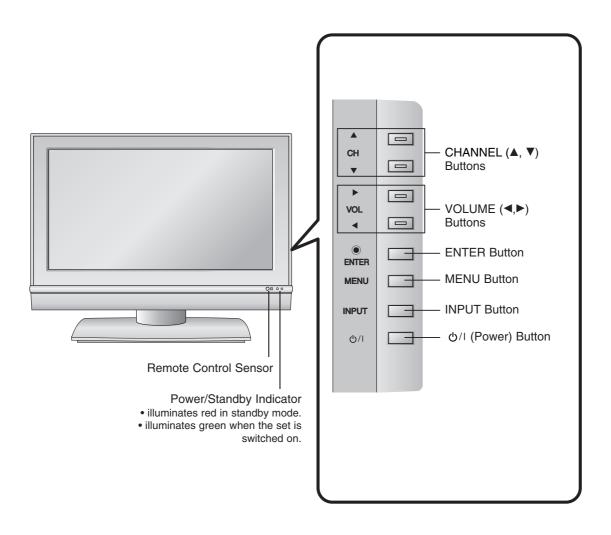
Accessories

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



Controls (Model Name: 32/37/42LC2D)

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



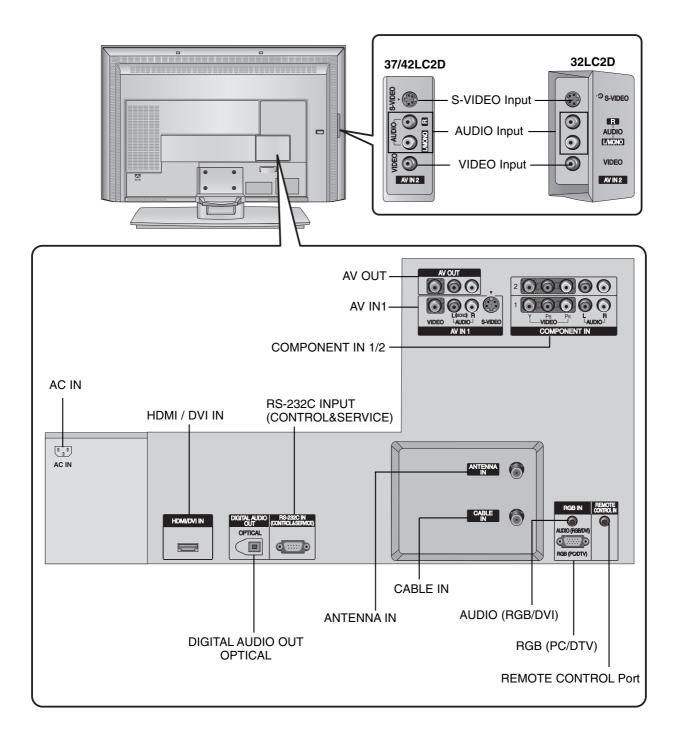
Swivel Stand (42LC2D only)



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

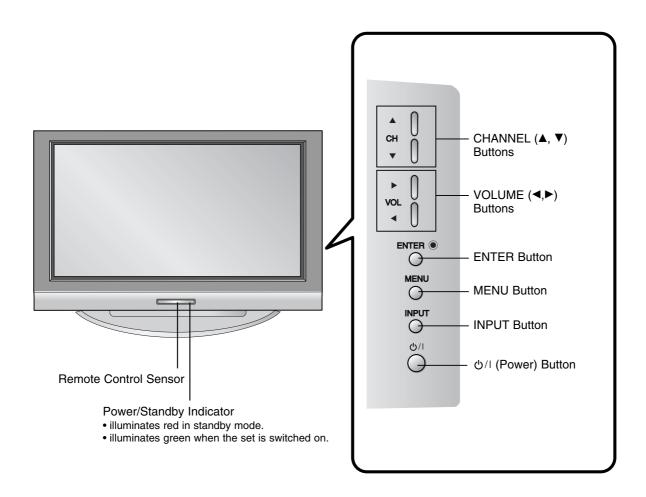
Connection Options (Model Name: 32/37/42LC2D)

- Here shown may be somewhat different from your TV.



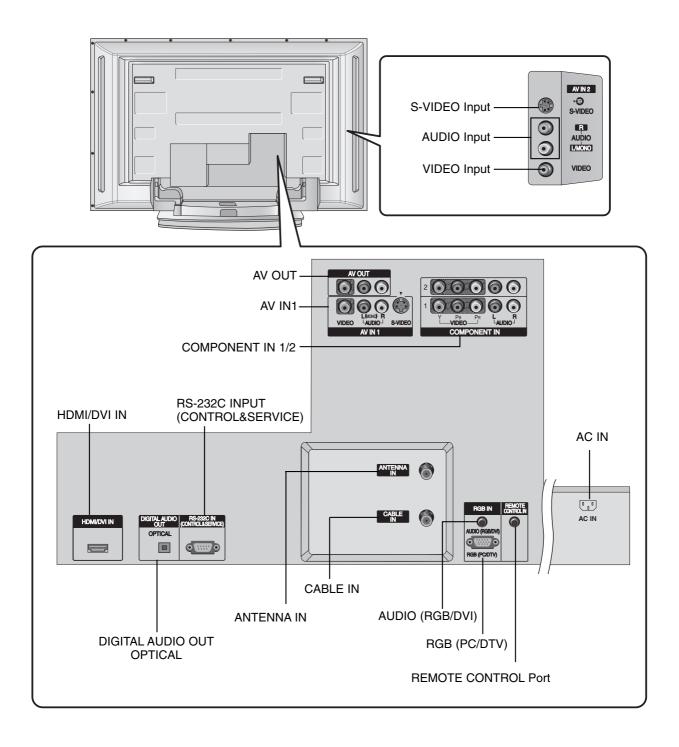
Controls (Model Name: 42PC3D/42PC3DV/50PC3D)

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

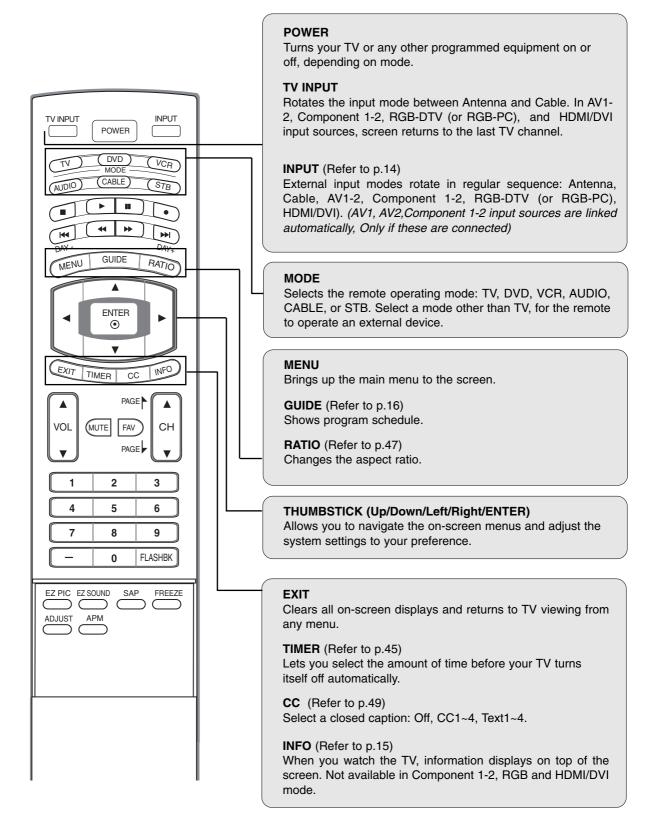


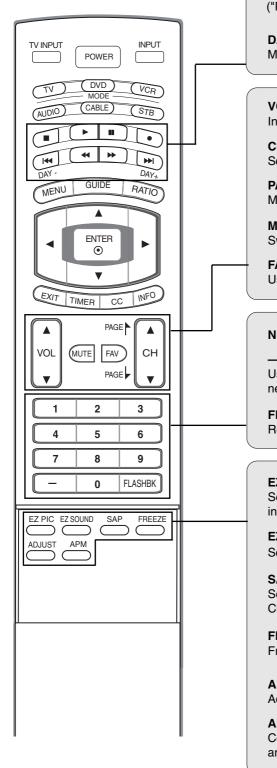
Connection Options (Model Name: 42PC3D/42PC3DV/50PC3D)

- Here shown may be somewhat different from your TV.



Remote Control Key Functions





VCR/DVD/DVHS/Camcorder BUTTONS Control some video cassette recorders or DVD players

("RECORD" button is not available for DVD player).

DAY + / DAY-Moves forward or backward in 24 hour increments.

VOLUME UP/DOWN

Increases/decreases the sound level.

CHANNEL UP/DOWN

Selects available channels found with EZ scan and Manual scan.

PAGE UP/DOWN

Moves from one full set of screen information to the next one.

MUTE

Switches the sound on or off.

FAV

Use to scroll the Favorite channels.

NUMBER BUTTONS

- (DASH)

Used to enter a program number for multiple program channels such as 2-1, 2-2,etc.

FLASHBK Returns to the last channel viewed.

EZ PIC (Refer to p.38)

Selects a factory preset picture mode depending on the viewing environment.

EZ SOUND (Refer to p.41) Selects the sound appropriate for the program's character.

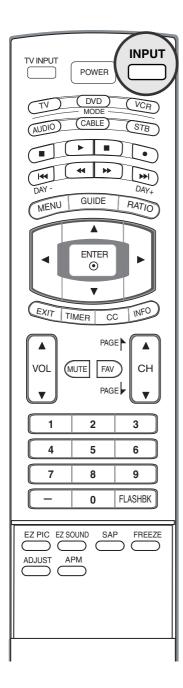
SAP (Refer to p.42) Selects MTS sound: Mono, Stereo, and SAP in analog mode. Change the audio language in DTV mode.

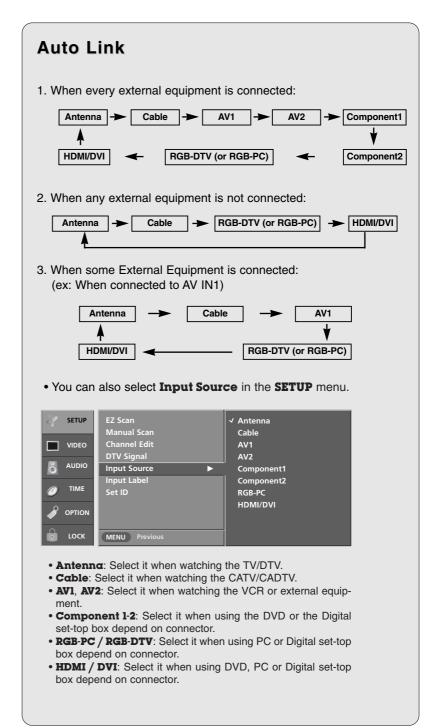
FREEZE

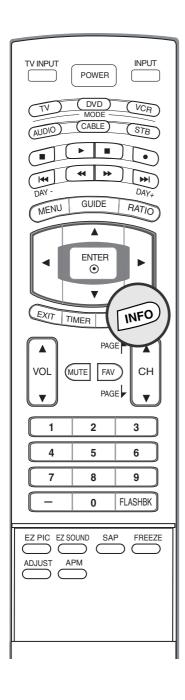
Freezes the currently-viewed picture.

ADJUST (Refer to p.31) Adjusts screen position, size, and phase in PC mode.

APM (Refer to p.38) Concurrently, compare with the Daylight, Normal, Night Time and Custom on the screen.







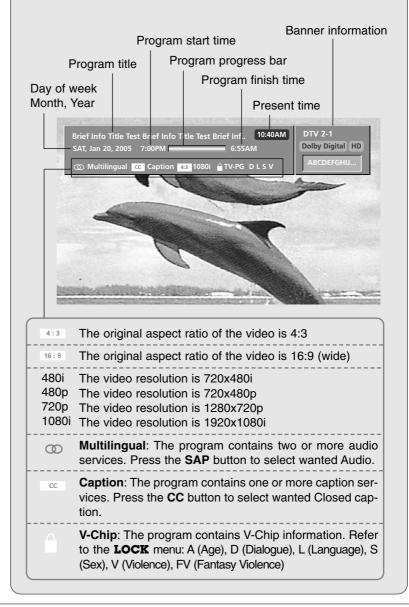
Brief Info.

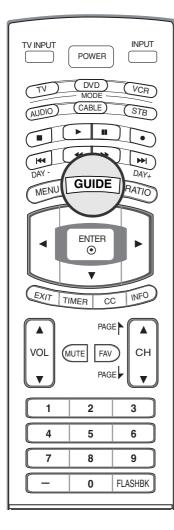
What is Brief Info?

- : Brief Info shows the present screen information.
- : On Watching with the upper Input signal, press the **INFO** button.

How to use?

- 1. Press the INFO button to show the Brief Info on the screen.
- 2. Press the INFO button or EXIT button to exit.
 - The **INFO** button does not work in Component1, Component2, RGB, and HDMI/DVI modes.
- This function works in the following mode:
- Watching TV/DTV/CATV/CADTV
- Watching AV1, AV2





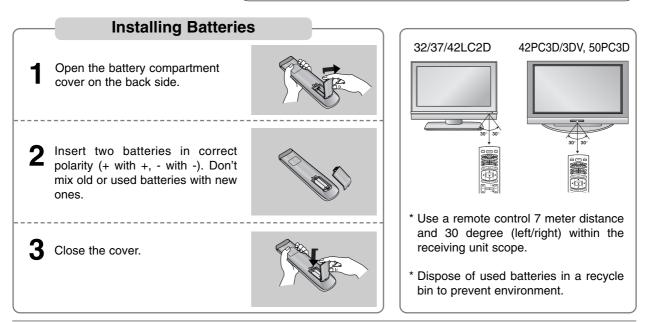
EPG (Electronic Program Guide) (In DTV mode)

- This system has an Electronic Program Guide (EPG) to help your navigate through all the possible viewing options.
- The EPG supplies information such as program listings, start and end times for all available services.
- This function can be used only when the EPG information is broadcasted by broadcasting companies.
- The EPG displays the program description for next 3 days.
- This function is only supported in DTV mode.

Guide				
				Oct 24, 2002 AM 6:0
			A	
THU, Oct 24	6:00 AM ↓			7:00 AM
DTV 6-1	De	Live E	Broadcasting T	oday(part1-3)
DTV 9-1	Loneline	ess	There's an	To hol
DTV 7-1	PJK No	ews	Pz's Mo	rning part1
DTV 10-1			News Parade	
DTV 11-1	De	Live E	Broadcasting T	oday(part1-3)
			•	
🗘 Navigate 🛛 🔅	Enter	≪ I> Jum	n Panes 141 M	Date 🕬 Ex

- **1** Press the **GUIDE** button to switch on EPG.
- 2 Press the $\land / \lor / \lor / \lor$ button to select desired program, then press the **ENTER** button to display the selected program.
- **3** Press the **GUIDE** or **EXIT** button again to switch off EPG and return to TV viewing.

Remote Control Buttons	Function	
▲ / ▼ / ◀ / ►	Select the desired program	
۲	Change to the selected channel	
44 / >>	Jump Page	
 ◀◀ / ▶▶	Change the date	
GUIDE/EXIT	Switch off EPG	

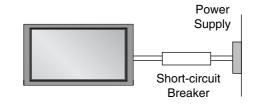


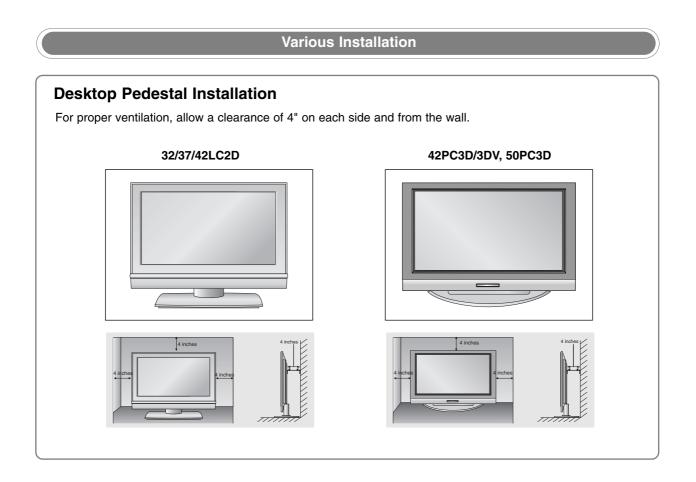
Installation

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

GROUNDING

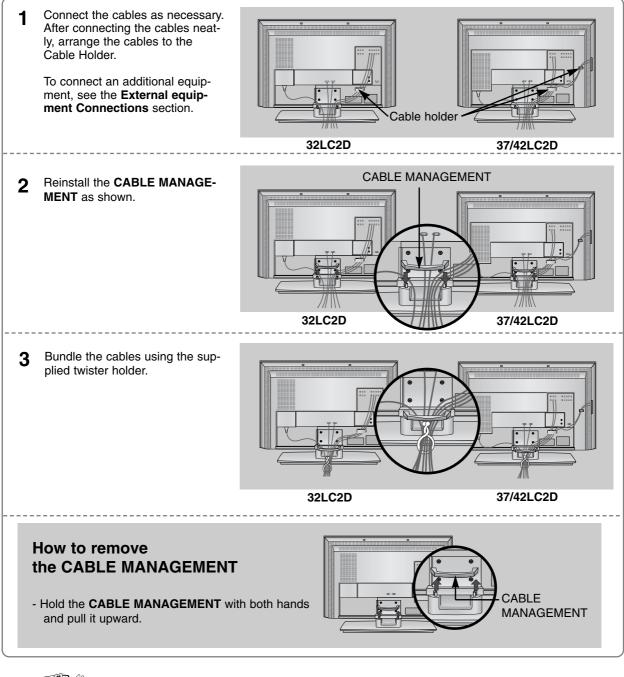
Ensure that you connect the earth ground wire to prevent possible electric shock. If grounding methods are not possible, have a qualified electrician install a separate circuit breaker. Do not try to ground the unit by connecting it to telephone wires, lightening rods, or gas pipes.





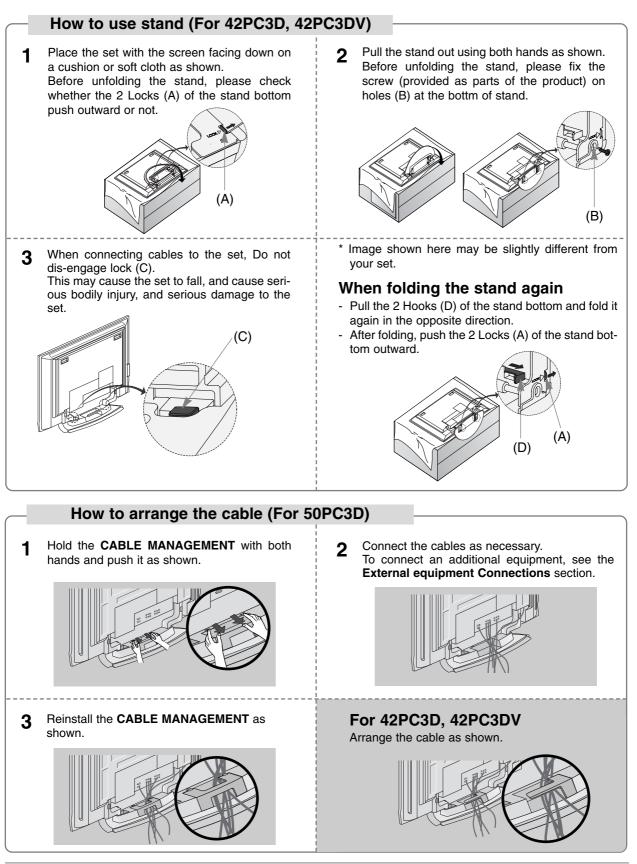
Installation

Basic Connection (For 32/37/42LC2D)



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.

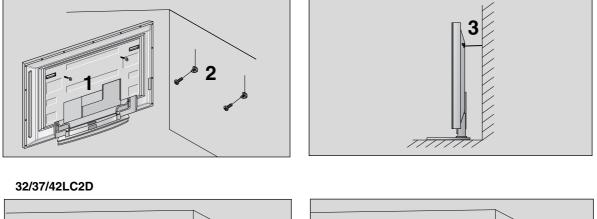
Basic Connection

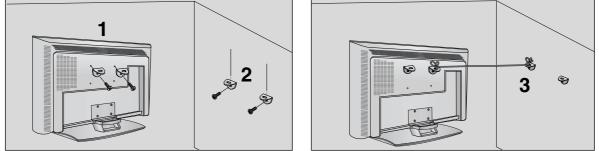


How to join the product assembly to the wall to protect the set tumbling

- Set it up close to the wall so the product doesn't fall over when it is pushed backwards.
- The instructions shown below is a safer way to set up the product, which is to fix it on the wall so the product doesn't fall over when it is pulled in the forward direction. It will prevent the product from falling 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.

42PC3D/42PC3DV/50PC3D





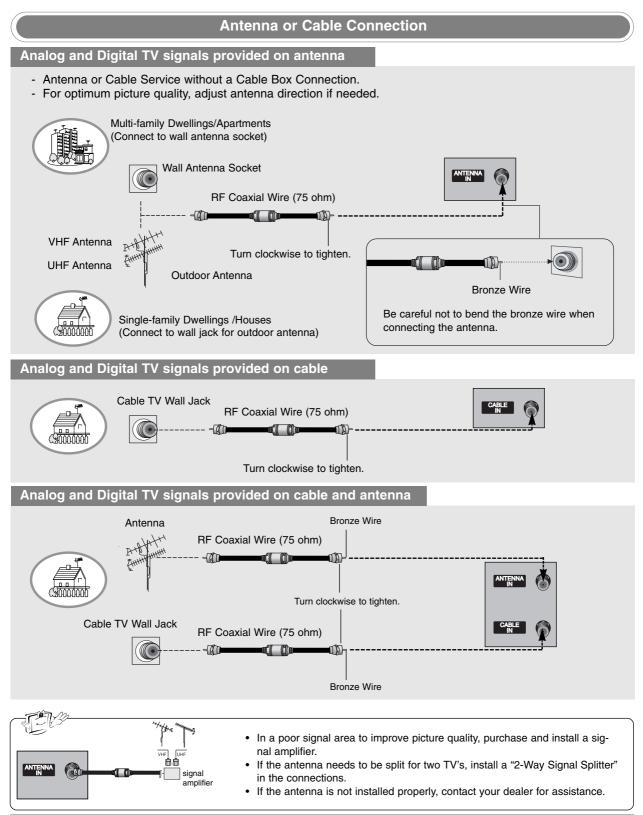
- **1** Use the eye-bolts or TV brackets/bolts to fix the product to the wall as shown in the picture. * Insert the eye-bolts or TV brackets/bolts and tighten them securely in the upper holes.
- 2 Secure the wall brackets with the bolts (not provided as parts of the product, must purchase separately) on the wall. Match the height of the bracket that is mounted on the wall.
- **3** Use a sturdy rope (not provided as parts of the product, must purchase separately) to tie the product. It is safer to tie the rope so it becomes horizontal between the wall and the product.

Notes

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

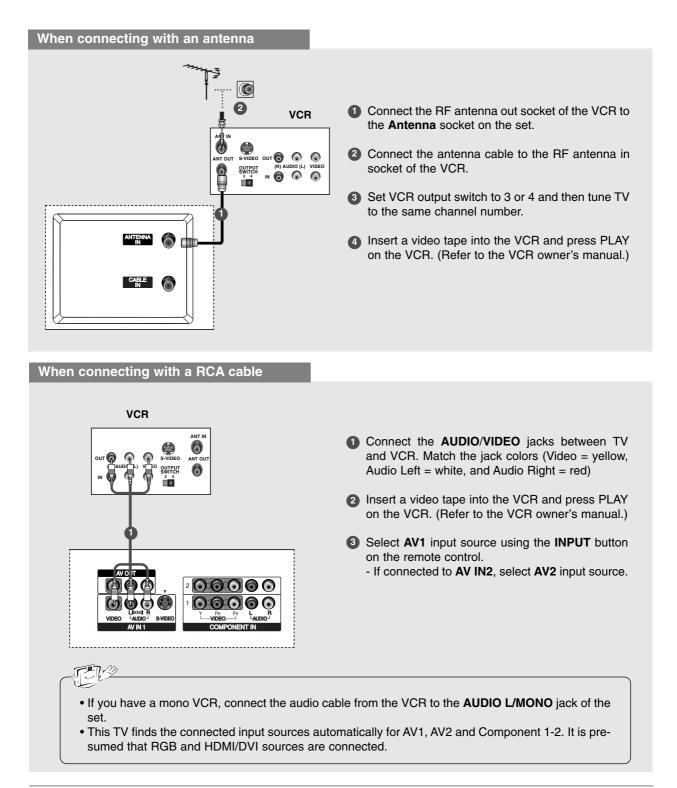
External Equipment Connections

NOTE: All cables shown are not included with the TV

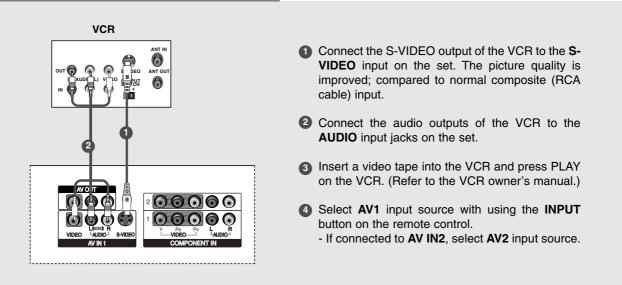


VCR Setup

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

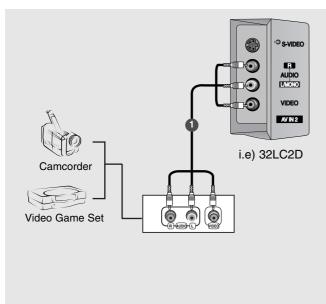


When connecting with an S-Video cable



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

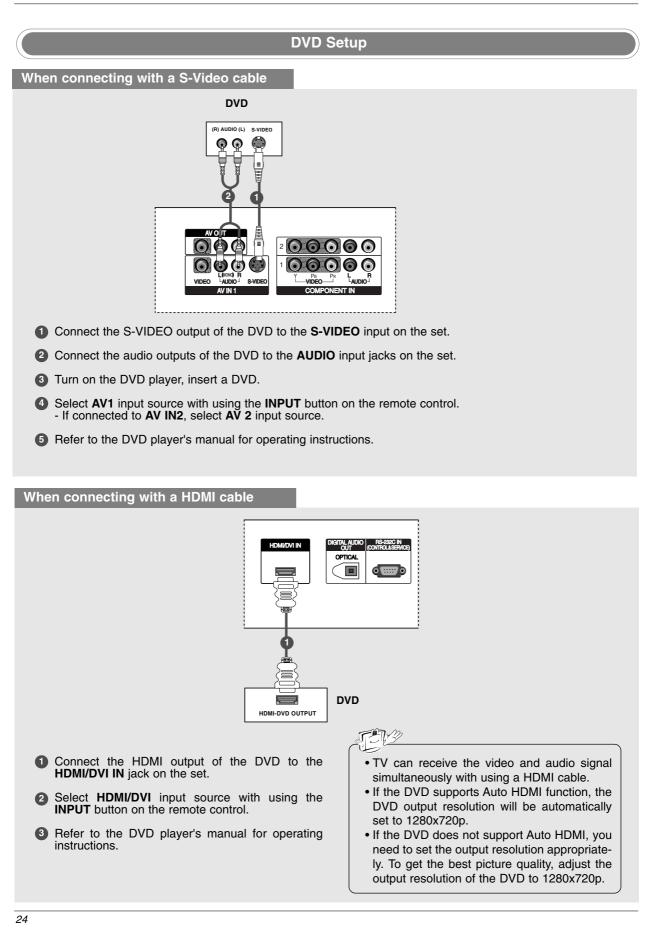
External AV Source Setup



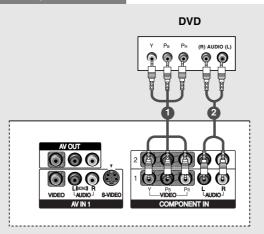
- Connect the AUDIO/VIDEO jacks between TV and external equipment. Match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red).
- Select AV2 input source with using the INPUT button on the remote control.
 - If connected to **AV IN1** input, select **AV1** input source.
- Operate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



• This TV finds the connected input sources automatically for AV1, AV2 and Component 1-2. It is presumed that RGB and HDMI/DVI sources are connected.



When connecting with a component cable

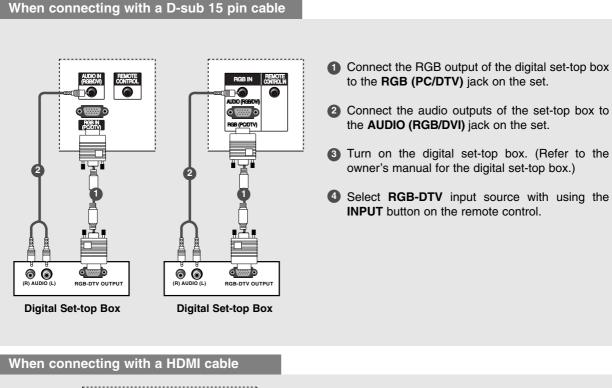


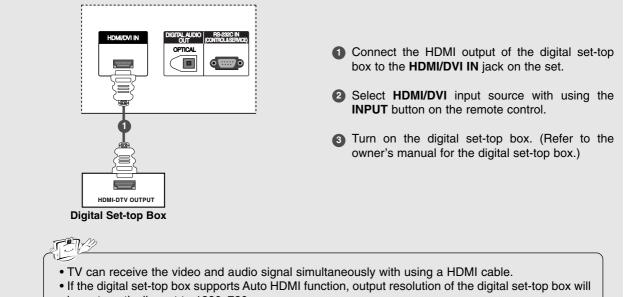
- Connect the video outputs (Y, PB, PR) of the DVD to the COMPONENT IN VIDEO jacks on the set.
- 2 Connect the audio outputs of the DVD to the COMPONENT IN AUDIO jacks on the set.
- 3 Turn on the DVD player, insert a DVD.
- Select Component 1 input source with using the INPUT button on the remote control.
 If connected to COMPONENT 2, select Component 2 input source.
- 5 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. \mathbf{P}_{R} Component ports on the TV Υ Рв Y Pb Pr Video output ports Υ B-Y R-Y Cb Y Cr on DVD player Y PR Ρв

HDSTB Setup

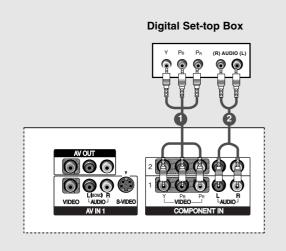
This TV can receive Digital Over-the-air/Cable signals without an external digital set-top box. However, if
you do receive Digital signals from a digital set-top box or other digital external device, refer to the figure
as shown below.





be automatically set to 1280x720p.
If the digital set-top box does not support Auto HDMI, you need to set the output resolution appropriately. To get the best picture quality, adjust the output resolution of the digital set-top box to 1280x720p.

When connecting with a Component cable

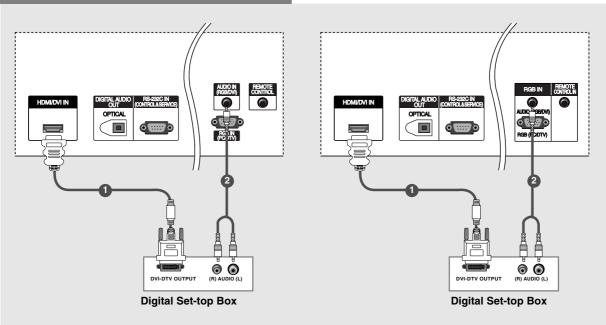


When connecting with a HDMI to DVI cable

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

- 11	connecteu	10	COMPONENT	۷,	Select
Co	mponent 2	input	source.		

đ	509		
	Signal	Component1/2	RGB-DTV, HDMI/DVI
	480i	Yes	No
	480p/720p/1080i	Yes	Yes



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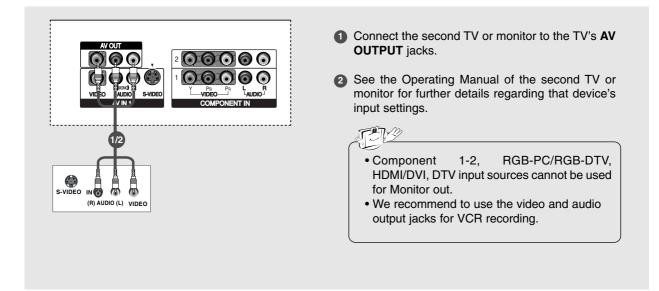
- 1 Connect the DVI output of the digital set-top box to the HDMI/DVI IN jack on the set.
- 2 Connect the audio outputs of the set-top box to the AUDIO (RGB/DVI) jack on the set.
- 3 Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
- Select HDMI/DVI input source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

FNY

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

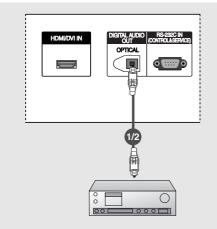
Monitor Out Setup

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



Digital Audio Output

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



- 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.
- See the external audio equipment instruction manual for operation. When connecting with external audio equipments, such as amplifiers or speakers, please turn the TV speakers off. (Refer to p.43)

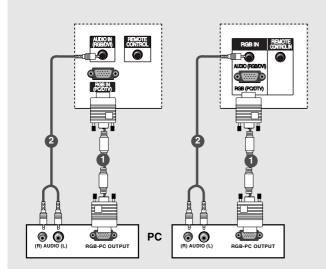
CAUTION

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

PC Setup

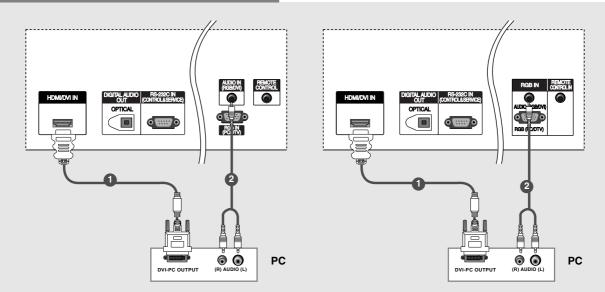
- This TV provides Plug and Play capability, meaning that the PC adjusts automatically to the TV's settings.

When connecting with a D-sub 15 pin cable



When connecting with a HDMI to DVI cable

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



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

FN<u>9</u>

- 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.

Installation

TP2	
 To get 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 connected with HDMI/DVI Input, output PC Resolution (VGA, SVGA, XGA), Position and Size may not fit to Screen.Press the ADJUST button to adjust the screen Position of TV SET and contact an PC graphics card service center. When Source Devices connected with HDMI/DVI Input, output TV SET Resolution (480p, 720p, 	 OSD display. Refer to the Manual of HDMI/D'Source Devices or contact your service center. 6. Check the image on your TV. There may be nois associated with the resolution, vertical patter contrast or brightness in PC, HDMI/DVI mode. noise is present, change the PC or HDMI/D'mode to another resolution, change the refrest rate to another rate or adjust the brightness ar contrast on the menu until the picture is clear. If the refresh rate of the PC graphic card or constate the manufacturer of the PC graphic card.
1080i) and TV SET Display fit EIA/CEA-861-B Specification to Screen. If not, refer to the Manual	 Avoid keeping a fixed image on the TV's screen f a long period of time. The fixed image may become permanently imprinted on the server.
of HDMI/DVI Source Devices or contact your ser- vice center.	permanently imprinted on the screen. 8. The synchronization input form for Horizontal ar

5. In case HDMI/DVI Source Devices is not connected Cable or poor cable connection, "NO SIGNAL" OSD display in HDMI/DVI Input. In case that Video Resolution is not supported TV SET output in HDMI/DVI Source Devices, "INVALID FORMAT"

- oise ern, . If DVI esh and the be sult
- for me
- and Vertical frequencies is separate.

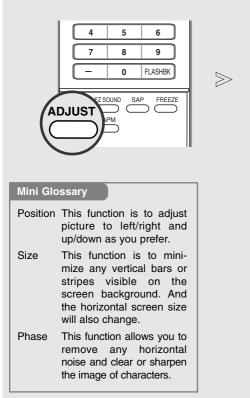
Supported Display Resolution (RGB-PC, HDMI/DVI Mode)

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
* 640x350	31.468	70.08		35.156	56.25
* 720x400	31.469	70.08	800x600	37.879	60.31
	31.469	59.94		48.077	72.18
640x480	37.861	72.80		46.875	75.00
	37.500	75.00		48.363	60.00
* RGB-PC	only		1024x768	56.476 60.023	70.06 75.02

Screen Setup for PC mode

- When RGB connect to PC input and select the RGB-PC, this function is used.
- When HDMI/DVI connect to PC input and select HDMI/DVI input, this function is used.
- In RGB-DTV mode, SIZE and PHASE is not available.
- After connecting RGB-PC or HDMI/DVI to PC input and checking the screen quality.

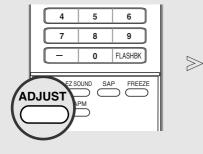
* Adjustment for screen Position, Size, and Phase



POSITION SIZE PHASE RESET	
Adjust Close	

- **1** Press the ADJUST button and then use \blacktriangle / \blacktriangledown button to select **POSITION**, **SIZE**, or **PHASE**.
- 2 Press ENTER button and then use ▲ / ▼ / ◄ / ► buttons to make appropriate adjustments.
 - The PHASE adjustment range is -16 ~ +16.
 - (In HDMI/DVI-PC mode, PHASE is not available.)
 - The **SIZE** adjustment range is $-30 \sim +30$.
- **3** Press **ENTER** button.

* Initializing (Reset to original factory values)



- To initialize the adjusted values

POSITION SIZE PHASE	Initialize Settings
Adjust Close	

- Press the **ADJUST** button and then use ▲ / ▼ button to select the **RESET** option.
- 2 Press ENTER button and then use ◄ / ► button to select Yes.
- **3** Press ENTER button.

Operation Basic operation

Turning on the TV

1. First, connect power cord correctly. At this moment, the TV switches to standby mode.

In standby mode to turn TV on, press the 0/1, **INPUT**, **CH** \blacktriangle **/** \checkmark button on the TV or press the **POWER**, **TV INPUT**, **INPUT**, **CH** \blacktriangle **/** \checkmark , Number (0 ~ 9) button on the remote control .

- Select the viewing source by using TV INPUT, INPUT button on the remote control. This TV is programmed to remember which power state it was last set to, even if the power cord is out.
- 3. When finished using the TV, press the **POWER** button on the remote control. The TV reverts to standby mode.

Volume Adjustment

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

Channel Selection

Press the CH ▲ / ▼ or NUMBER buttons to select a channel number.

TN3

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



On Screen Menus Language Selection

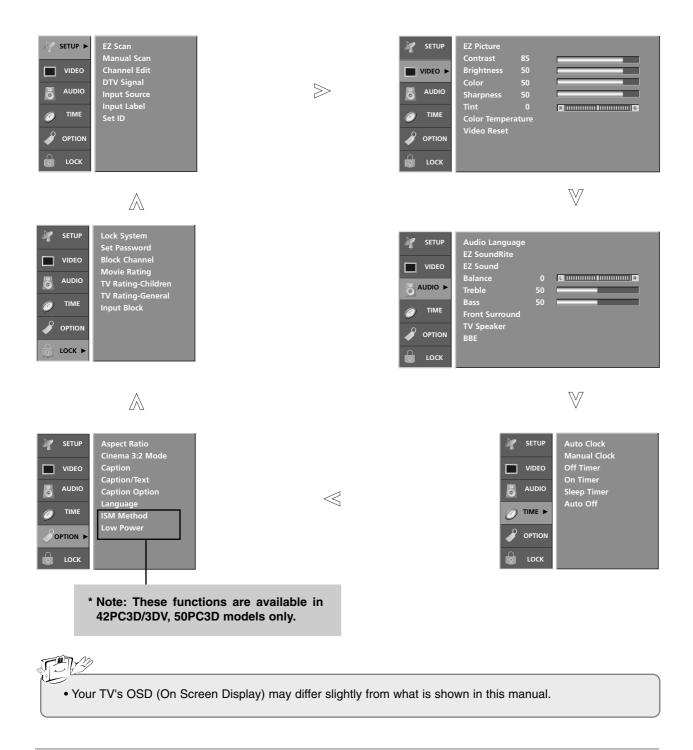


- The menus can be shown on the screen in the selected language. First select your language.
- **1** Press the **MENU** button and then use ▲ / ▼ button to select the **OPTION** menu.
- **2** Press the \blacktriangleright button and then use \blacktriangle / \blacktriangledown button to select **Language**.
- 3 Press the ► button and then use ▲ / ▼ button to select your desired language. From this point on, the on-screen menus will be shown in the selected language.
- **4** Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.

On Screen Menus Selection and Adjustment

How to adjust the OSD screen

- 1. Press the **MENU** button and then \blacktriangle / \blacktriangledown button to select each menu.
- 2. Press the \blacktriangleright button and then use \blacktriangle / \bigtriangledown / \blacklozenge / \blacklozenge button to display the available menus.



Setup Menu Options

SETUP ►	EZ Scan Manual Scan
	Channel Edit
audio	DTV Signal Input Source
	Input Label Set ID
С LOCK	

- Automatically finds all channels available through antenna or cable inputs, and stores them in memory on the channel list.
- Run EZ Scan again after any Antenna/Cable connection changes.
- A password is required to gain access to EZ Scan menu if the Lock System is turned on.

EZ	Scan	(Channe	si Search

Manual Scan

7 Caap (Chappel (



- **1** Press the **MENU** button and then use \blacktriangle / \blacktriangledown button to select the **SETUP** menu.
- **2** Press the \blacktriangleright button and then use \blacktriangle / \blacktriangledown button to select **EZ Scan**.
- 3 Press the ENTER button to begin the channel search. Allow EZ Scan to complete the channel search cycle for ANTENNA, and CABLE.

✓ SETUP ► VIDEO AUDIO ✓ TIME	EZ Scan Manual Scan Channel Edit DTV Signal Input Source Input Label Set ID
о соск	

 \geq

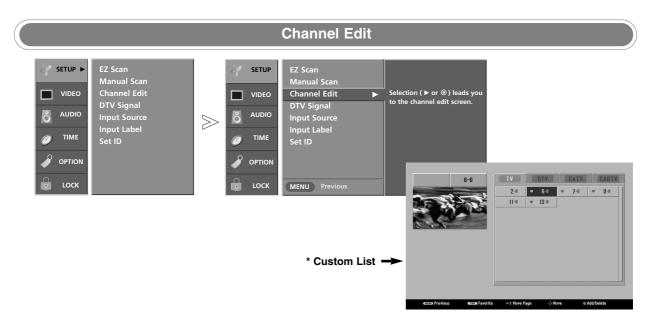
- A password is required to gain access to Manual Scan menu if the Lock System is turned on.

SETUP	EZ Scan Manual Scan ►	Select channel type and
VIDEO AUDIO	Channel Edit DTV Signal Input Source Input Label Set ID	RF-channel number.
OPTION	MENU Previous	

- **1** Press the **MENU** button and then use \blacktriangle / \blacktriangledown button to select the **SETUP** menu.
- **2** Press the \blacktriangleright button and then use \blacktriangle / \bigtriangledown button to select **Manual Scan**.
- 3 Press the ► button and then use ▲ / ▼ button to select TV, DTV, CATV, and CADTV.
- 4 Press the ► button and then use ▲ / ▼ button to select channel number you want to add or delete.
- **5** Press the **ENTER** button to add or delete for the channel number.
- 6 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.

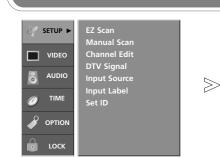
Mini Glossary

ТV	Analog antenna (over-the-air) TV signal	CATV	Analog cable TV signal	
DTV	Digital antenna (over-the-air) TV signal	CADTV	Digital cable TV signal	



- There are two different ways in order to add or delete scanned channels. One is "Custom List" and the other is "Favorite List" in the channel list. Both of them are available after **EZ Scan** on the **SETUP** menu.
- A Custom List can be created by toggling each channel on or off with ENTER button. The channels in the Custom List are displayed in black color, and the channels deleted from the Custom List are displayed in gray color. Once a channel is highlighted you can add or delete the channel by referring to the small window at the top-left corner of the screen. You can create your own Favorite List. Use the FAV button on the remote control when a channel is highlighted and then you can add or delete the channel to/from the Favorite List.
- Press the MENU button and then use ▲ / ▼ button to select the SETUP menu.
- **2** Press the \blacktriangleright button and then use \blacktriangle / \checkmark button to select **Channel Edit**.
- **3** Press the ► button. You will now see a screen filled with channel numbers and a preview picture.
- 4 Use ▲ / ▼ / ◀ / ► button to select a channel and then use the ENTER button to add or delete it. Press FAV button to add the channel to the Favorite List. The heart-mark will appear in front of that channel number.
- **5** Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.

Setup Menu Options continued



- Shows how strong your DTV signal is and whether you need to adjust your antenna or digital cable input. The higher the signal strength, the less likely you are to experience picture degradation.
- DTV Signals: Only when the input signal is DTV or CADTV, this function is available.

DTV Signal Strength

SETUP	EZ Scan Manual Scan			
	Channel Edit	Bad	Normal	Good
audio	Input Source Input Label			
Ø TIME	Set ID			
🕞 LOCK	MENU Previous			

- **1** Press the **MENU** button and then use \blacktriangle / \blacktriangledown button to select the **SETUP** menu.
- **2** Press the \triangleright button and then use \blacktriangle / \bigtriangledown button to select **DTV Signal**.
- **3** View the on-screen signal strength monitor to see the quality of the signal being received.
- **4** Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.

SETUP ►	EZ Scan Manual Scan	
VIDEO	Channel Edit DTV Signal	
AUDIO	Input Source	
	Input Label Set ID	
о соск		

 Changes the picture source so you can watch your TV, cable TV, VCR, DVD, or any other devices that are connected to your TV. Input Source

	Z	SETUP	EZ Scan Manual Scan		√ Antenna Cable
		VIDEO	Channel Edit DTV Signal		AV1 AV2
\gg	ô	AUDIO	Input Source	•	Component1 Component2
	Ø	TIME	Set ID		RGB-PC
	ø	OPTION			HDMI/DVI
		LOCK	MENU Previous		

- Press the **MENU** button and then use \blacktriangle / \blacktriangledown button to select the **SETUP** menu.
- **2** Press the \blacktriangleright button and then use \blacktriangle / \blacktriangledown button to select **Input Source**.
- 3 Press the ► button and then use ▲ / ▼ button to select the source: Antenna, Cable, AV1, AV2, Component1, Component2, RGB-DTV (or RGB-PC), or HDMI/DVI.
 - To toggle RGB-DTV and RGB-PC, select RGB-DTV(or RGB-PC) and press ► button.
- **4** Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



- Sets a label to each input source or lets you skip the input source which is not in use when you press **INPUT** button.

Input Label

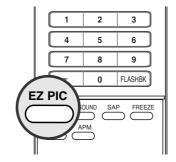
SETUP	EZ Scan Manual Scan		
VIDEO	Channel Edit DTV Signal	AV1 AV2	Cable Box
audio	Input Source	Component1 Component2	DVD Set Top Box
Ø TIME	Set ID	RGB HDMI/DVI	PC Game
			Game
🕞 LOCK	MENU Previous		

- 1 Press the MENU button and then use ▲ / ▼ button to select the SETUP menu.
- 2 Press the ► button and then use ▲ / ▼ button to select **Input Label**.
- 3 Press the ► button and then use ▲ / ▼ button to select the source: AV1-2, Component1-2, RGB or HDMI/DVI.
- **4** Press the \triangleleft / \triangleright button to select the label.
- **5** Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.

Video Menu Options

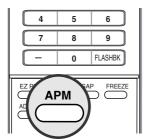
EZ Picture

- EZ Picture adjusts the TV for the best picture appearance. Select the preset value in the EZ Picture menu based on the program category.
- When adjusting Video menu options (contrast, brightness, color, sharpness, tint, and color temperature) manually, EZ Picture automatically changes to Custom.
- Daylight, Normal, Night Time, Movie, Video Game, and Sports settings are preset for optimum picture quality at the factory and are not adjustable.



- Press the EZ PIC button repeatedly to select the picture appearance setup option as shown below: Custom (your own settings), Daylight, Normal, Night Time, Movie, Video Game, and Sports.
 - You can also adjust **EZ Picture** in the **VIDEO** menu.
- **2** Press the **EXIT** button to save and return to TV viewing.

APM (Adaptive Picture Mode)



- It allows a viewer to select their preferred mode after comparing picture (Daylight, Normal, Night Time and Custom) settings.
- Note: While operating the 4-split, any button except APM, ENTER, EXIT, ▲ / ▼ / ◀ / ▶, VOLUME ▲ / ▼, MUTE button on the remote control are not available.

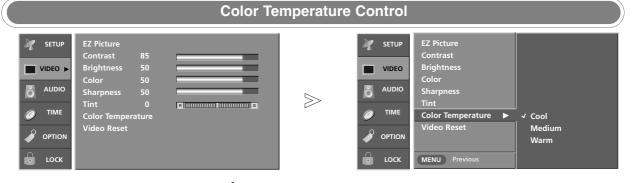


- Press the APM button. The screen is divided to 4-split.
- 2 Press the ▲ / ▼ / ◀ / ► button to navigate 4 EZ Pictures. By pressing the ENTER button, you can select the desired mode.

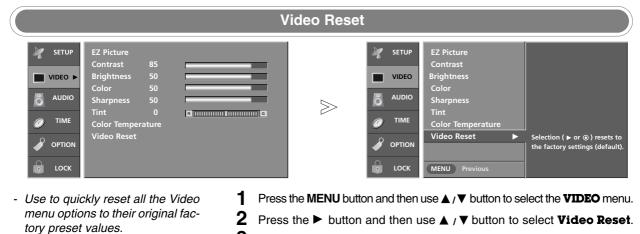
Press the EXIT button to save and return to TV viewing.

		Man	ual Picture Conti	rol (EZ	Z Picture-Custom option)
SETUP UDEO AUDIO Image: Constraint of the set	EZ Picture Contrast Brightness Color Sharpness Tint Color Tempe Video Reset		R 1000000000000000000000000000000000000		 ✓ SETUP ✓ VIDEO ✓ AUDIO ✓ TIME ✓ OPTION ✓ LOCK

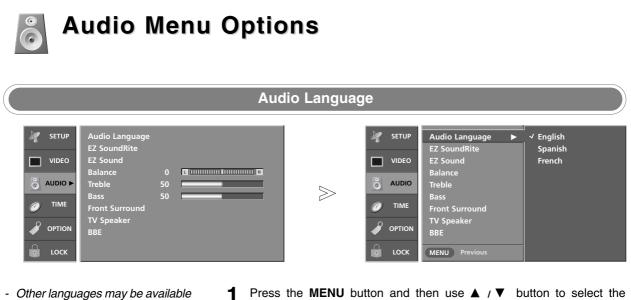
- Adjust the picture appearance to suit your preference and viewing situations.
- Press the MENU button and then use ▲ /▼ button to select the VIDEO menu.
- **2** Press the \triangleright button and then use \blacktriangle / \lor button to select the desired picture option (**Contrast**, **Brightness**, **Color**, **Sharpness**, or **Tint**).
- 3 Press the ► button and then use </ > button to make appropriate adjustments.
- **4** Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



- 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 ▲ / ▼ button to select the VIDEO menu.
- 2 Press the \blacktriangleright button and then use \blacktriangle / \checkmark button to select **Color Temperature**.
- 3 Press the ► button and then use ▲ / ▼ button to select either Cool, Medium, or Warm.
- **4** Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



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



- if a digital signal is provided by the broadcasting station.
- AUDIO menu.
- **2** Press the \blacktriangleright button and then use \blacktriangle / \checkmark button to select **Audio Language**.
- Press the \blacktriangleright button and then use \blacktriangle / \blacktriangledown button to select: English, 3 Spanish, or French.
- Press EXIT button to return to TV viewing or press MENU button to 4 return to the previous menu.

EZ SoundRite					
SETUP Audio Langua VIDEO EZ Sound Rite Audio Langua EZ Sound Rite Audio Langua EZ Sound Rite Audio Audio P Balance Audio Time Front Surroun OPTION BBE LOCK EXEMPTION	0 [3] [1111111111 [111111111]] 50 50		Image: Seture Image: Seture Image: Video Image: Seture Image: Seture	Audio Language EZ SoundRite EZ Sound Balance Treble Bass Front Surround TV Speaker BBE MENU Previous	√ Off On

- Scans for changes in sound level during commercials, then adjusts the sound to match the specified audio level. EZ SoundRite makes sure that the volume level remains consistent whether you are watching a commercial or a regular TV program.
- Press the **MENU** button and then use ▲ / ▼ button to select the 1 AUDIO menu.
- **2** Press the \blacktriangleright button and then use \blacktriangle / \checkmark button to select **EZ SoundRite**.
- 3 Press the \blacktriangleright button and then use \blacktriangle / \blacktriangledown button to select **Off** or **On**.
- Press EXIT button to return to TV viewing or press MENU button to 4 return to the previous menu.

EZ Sound

- EZ Sound lets you enjoy the best sound without any special adjustment because the TV sets the appropriate sound options based on the program content.
- When adjusting sound options (treble, bass, and front surround) manually, EZ Sound automatically switches **Custom**.
- Normal, Stadium, News, Music, and **Theater** are preset for good sound quality at the factory and are not adjustable.
- 1 2 3 4 5 6 7 8 9 FLASHBK EZ SOUND FREEZE
- Press the EZ SOUND button repeatedly to select the appropriate sound setup as shown below: Custom (your own settings), Normal, Stadium, News, Music, and Theater.
 You can also adjust EZ Sound in the AUDIO menu.
- **2** Press **EXIT** button to save and return to TV viewing.

Manual Sound Control (EZ Sound-Custom option) SETUP SETUR EZ SoundRite EZ Sound VIDEO VIDEO Balance 0 👌 AUDIO 🕨 AUDIO \gg TIME TIME OPTIO OPTION BBE LOCK MENU Previous LOCK

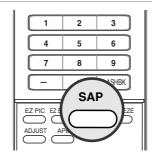
- Adjust the sound to suit your taste and room situations.
- 1 Press the MENU button and then use ▲ / ▼ button to select the **AUDIO** menu.
- 2 Press the ► button and then use ▲ / ▼ button to select the desired sound option (**Balance**, **Treble**, or **Bass**).
- **3** Press the ► button and then use < / ► button to make appropriate adjustments.
- **4** Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Audio Menu Options continued

Stereo/SAP Broadcasts Setup

- This TV can receive MTS stereo programs and any SAP (Secondary Audio Program) that accompanies the stereo program; if the station transmits an additional sound signal as well as the original one.
- When having selected Stereo or SAP button on the remote control, this TV can only receive the signal in case that the TV station transmits the proper signals.
- Mono sound is automatically received if the broadcast is only in Mono; even though Stereo or SAP has been selected.
- Select Mono if you want to listen to the mono sound in remote fringe areas during stereo/SAP broadcasting.
- Stereo or SAP can be received in Analog channel.



- Use the SAP button to select your desired MTS mode in analog signal. Each time you press the SAP button, Mono, Stereo, or SAP appear in turn.
 - If other languages available on the digital signal, select them with the **SAP** button.
- 2 Press EXIT button to save and return to TV viewing.

Front Surround						
Image: SETUP Audio Language EZ SoundRite EZ Sound EZ Sound Balance 0 Balance 0 Image: SETUP Image: SETUP EZ Sound Image: SETUP Balance 0 Image: SETUP Image: SETUP Balance 0 Image: SETUP EZ Sound Image: SETUP Balance 0 Image: SETUP Image: SETUP Balance 0 Image: SETUP Image: SETUP Image: SETUP Image: SetUP Balance 0 Image: SetUP Image: SetUP Image: SetUP Image: SetU	EZ SoundRite EZ Sound Balance Treble Bass Front Surround ► ✓ Off TV Speaker BBE SRS TruSurround XT					

- Contraction is a trademark of SRS Labs, Inc.
- TruSurround XT technology is incorporated under license from SRS Labs, Inc.
- Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
- 1 Press the MENU button and then use ▲ / ▼ button to select the AUDIO menu.
- 2 Press the ► button and then use ▲ / ▼ button to select Front Surround.
- 3 Press the ► button and then use ▲ / ▼ button to select Off, 3D EchoSound System or SRS (Sound Retrieval System) TruSurround XT.
- **4** Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.

Mini Glossary

SRS TruSurround XT

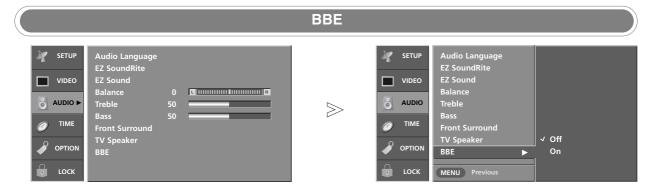
Takes advantage of any multi-channel format without needing to add extra speakers or equipment. Dialog clarity, bass enrichment, and the addition of stereo audio enhancement that produces an immersive sound experience from standard stereo material.

3D EchoSound System

Creates a stunning simulated stereo effects from any mono sound and a realistic three-dimensional sound with a very wide and deep sound stage from stereo sound.

	TV Speakers On/Off Setup					
VIDEO	Audio Language EZ SoundRite EZ Sound Balance Treble Bass Front Surround TV Speaker BBE	0 [] 50 50	≫	Image: Seture Image: SetUre	Audio Language EZ SoundRite EZ Sound Balance Treble Bass Front Surround TV Speaker BBE MENU Previous	√ Off On

- Turn TV speakers off if using external audio equipment. Feature turns the TV Speakers option On or Off.
- **1** Press the **MENU** button and then use ▲ / ▼ button to select the **AUDIO** menu.
- **2** Press the \blacktriangleright button and then use \blacktriangle / \checkmark button to select **TV Speaker**.
- **3** Press the \triangleright button and then use \blacktriangle / \checkmark button to select **Off** or **On**.
- **4** Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



- BBE High Definition Sound restores clarity and presence for better speech intelligibility and music realism.
- **1** Press the **MENU** button and then use ▲ / ▼ button to select the **AUDIO** menu.
- **2** Press the \blacktriangleright button and then use \blacktriangle / \blacktriangledown button to select **BBE**.
- **3** Press the \triangleright button and then use \blacktriangle / \checkmark button to select **Off** or **On**.
- **4** Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.

• BBE Manufactured under license from BBE Sound, Inc.

7 Time Menu Options

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Magazina Setup	Auto Clock Manual Clock
	Off Timer On Timer
õ AUDIO	Sleep Timer
Ø TIME ►	Auto Off
LOCK	

- The time is set automatically from a digital channel signal.
- The digital channel signal includes information for the current time provided by the broad-casting station.
- Set the clock manually, if the current time is set incorrectly by the auto clock function.

Auto Clock Setup

SETUP	Auto Clock Manual Clock	Off √ On
	Off Timer	
å AUDIO	On Timer Sleep Timer	Time Zone Eastern Daylight Saving Auto
	Auto Off	Saving
о соск	MENU Previous	

- Press the MENU button and then use ▲ / ▼ button to select the **TIME** menu.
- **2** Press the \blacktriangleright button and then use \blacktriangle / \blacktriangledown button to select **Auto Clock**.
- **3** Press the \blacktriangleright button and then use \blacktriangle / \blacktriangledown button to select **On**.
- **4** Press the \blacktriangleright button and then use \blacktriangle / \blacktriangledown button to select your viewing area time zone.

U.S.A: Eastern, Central, Mountain, Pacific, Alaska, or Hawaii.
 Canada: Eastern, Central, Mountain, Pacific, Nfld, or Atlantic.

- 5 Press the ► button and then use ▲ / ▼ button to select **Auto**, **Off**, **On**, depending on whether or not your viewing area observes Daylight Saving time.
- 6 Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.

🧗 SETUP	Auto Clock Manual Clock
	Off Timer On Timer
audio	Sleep Timer Auto Off
	Auto Off
🕞 LOCK	

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

	Intantual Clock	rear	
VIDEO	Off Timer	Date /	
audio	On Timer Sleep Timer Auto Off	Time :	
	Auto Off		
С	MENU Previous		

Manual Clock Setup

SETUP

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Auto Clock

- 1 Press the MENU button and then use ▲ / ▼ button to select the TIME menu.
- **2** Press the \blacktriangleright button and then use \blacktriangle / \blacktriangledown button to select **Manual Clock**.
- 3 Press the ► button and then use < / ► button to select either the year, date, or time option. Once selected, use the ▲ / ▼ button to set the year, date, and time options.</p>
- **4** Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



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- Timer function operates only if current time has been set.
- Off-Timer function overrides On-Timer function if they are set both set to the same time.
- The TV must be in standby mode for the On-Timer to work.
- If you do not press any button within 2 hours after the TV turns on with the On Timer function, the TV will automatically revert to standby mode.

On/Off Timer Setup

4	SETUP	Auto Clock Manual Clock		
	VIDEO	Off Timer On Timer		Off
°	AUDIO	Sleep Timer		On
0	TIME	Auto Off		Time 6 : 30 AM Ch. TV 2-0
ø	OPTION			Vol <u>17</u>
•	LOCK	MENU Previous		

- Press the MENU button and then use ▲ / ▼ button to select the TIME menu.
- 2 Press the ► button and then use ▲ / ▼ button to select **Off Timer** or **On Timer**.
- 3 Press the ▶ button and then use ▲ / ▼ button to select On.
 To cancel On/Off Timer function, select Off.
- **4** Press the \triangleright button and then use \blacktriangle / \bigtriangledown button to set the hour.
- **5** Press the \blacktriangleright button and then use \blacktriangle / \checkmark button to set the minutes.

6 For only On Timer function

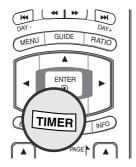
Press the \blacktriangleright button and then use \blacktriangle / \blacktriangledown button to select the channel at turn-on.

Press the \blacktriangleright button and then use \blacktriangle / \blacktriangledown button to set the sound level at turn-on.

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

Sleep Timer

- The Sleep Timer turns the TV off at the preset time. Note that this setting is cleared when the TV is turned off.
- You can also set up the **Sleep Timer** in the **TIME** menu.



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

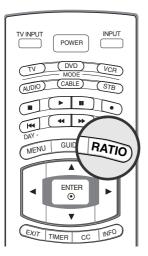
Time Menu Options continued Auto Off Auto Clock Manual Clock SETUP SETUP Y Auto Clock Manual Clock Off Timer On Timer Sleep Timer Auto Off input signal, the TV turns off Off Timer On Timer Sleep Timer automatically after 10 VIDEO VIDEO minutes. audio AUDIO å \gg Auto Off √ Off TIME 0 On OPTION OPTION MENU Previous Press the **MENU** button and then use \blacktriangle / \blacktriangledown button to select the **TIME** menu. - If set to on and there is no input 1 signal, the TV turns off automatically after 10 minutes. Press the \blacktriangleright button and then use \blacktriangle / \blacktriangledown button to select **Auto Off**. 2

- **3** Press the \blacktriangleright button and then use \blacktriangle / \blacktriangledown button to select **Off** or **On**.
- **4** Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.

Option Menu Features

Aspect Ratio Control

- Lets you choose the way an analog picture with a 4:3 aspect ratio is displayed on your TV with a 16:9 ratio picture format. When you receive an analog picture with a 4:3 aspect ratio on your 16:9 TV, you need to specify how the picture is to be displayed.
- If you are viewing a picture with a 16:9 aspect ratio, you can't use the Horizon aspect ratio option.
- Horizon aspect ratio is not available for Component 1-2 (720p/1080i) / RGB-DTV (720p/1080i)/HDMI/DVI-DTV (720p/1080i)/DTV(720p/1080i) input source.
- In RGB-PC/DVI-PC input source, only either 4:3 or 16:9 aspect ratio is available.
- If a fixed image is displayed on the screen for a long time, the image may become imprinted on the screen and remain visible.



Press the RATIO button repeatedly to select the desired picture format.You can also adjust Aspect Ratio in the OPTION menu.

Set By Program

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

• 4:3

1

Choose **4:3** when you want to view a picture with an original 4:3 aspect ratio, with gray bars appearing at both the left and right sides.

• 16:9

Choose **16:9** when you want to adjust the picture horizontally, in a linear proportion to fill the entire screen.

• Horizon

Choose **Horizon** when you want to adjust the picture in a non-linear proportion, that is, more enlarged at both sides, to create a panorama view.

• Zoom 1

Choose **Zoom 1** when you want to view the picture without any alteration. However, the top and bottom portions of the picture will be cropped.

• Zoom 2

Choose **Zoom 2** when you want the picture to be altered, both horizontally extended and vertically cropped. The picture taking a halfway trade off between alteration and screen coverage.

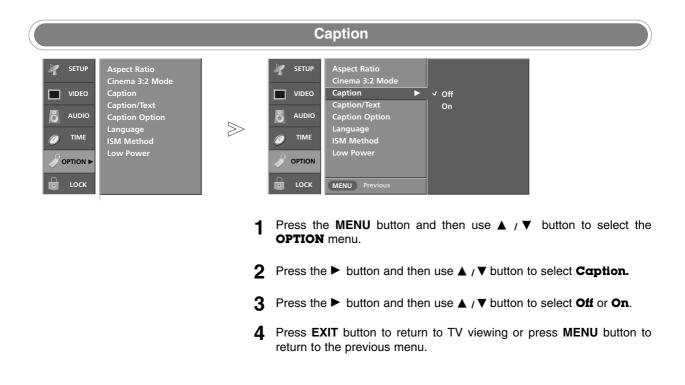
• Cinema Zoom

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 \blacktriangle / \blacktriangledown button. The adjustment range is 1~16.

Option Menu Features continued Cinema 3:2 Mode Setup SETUP SETUP Cinema 3:2 Mode Caption Cinema 3:2 Mode Caption √ Off VIDEO VIDEO On Caption/Text Caption Optio Language ISM Method Low Power Caption/Text Caption Option Language ISM Method Low Power ô AUDIO ô AUDIO \gg TIME TIME OPTION I OPTION MENU Prev - Most movies are 24 frames/sec, Press the **MENU** button and then use \blacktriangle / \checkmark button to select the 1 **OPTION** menu. but TV signal is 30 frames/sec.

- This option lets the TV do 3:2 pull-down operation for you to watch movies at the best motion appearance.
- This feature operates only in AV1, AV2, Component 480i mode.
- **2** Press the \blacktriangleright button and then use \blacktriangle / \blacktriangledown button to select **Cinema 3.2 Mode**.
- **3** Press the \blacktriangleright button and then use \blacktriangle / \checkmark button to select **Off** or **On**.
- **4** Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



Caption/Text

* Analog Broadcasting System Captions

 \geq



- Select a caption mode for dis-

provided on a program. - Analog caption displays informa-

used for a data service. - Caption/Text, if provided by the

nels on the Antenna/Cable.

the power off.

playing captioning information if

tion at any position on the screen. - Text displays information, usually

at the bottom position and is

broadcaster, would be available for both digital and analog chan-

- This TV is programmed to

remember the caption/text mode

it was last set to, when you turn

-			
	🦨 SETUP	Aspect Ratio Cinema 3:2 Mode	√ CC 1
		Caption	
	õ audio	Caption/Text Caption Option	CC 3 CC 4
>		Language ISM Method	Text 1 Text 2
		Low Power	Text 3
	С соск	MENU Previous	Text 4
	V LOCK	IVIENO PIEVIOUS	

- 1 Use the CC button repeatedly to select Caption Off, CC1, CC2, CC3, CC4, Text1, Text2, Text3, or Text4.
- **2** Press **EXIT** button to save and return to TV viewing.
-
- **1** Press the **MENU** button and then use \blacktriangle / \blacktriangledown button to select the **OPTION** menu.
- **2** Press the \blacktriangleright button and then use \blacktriangle / \checkmark button to select **Caption/Text**.
- 3 Press the ► button and then use ▲ / ▼ button to select caption: CCI, CC2, CC3, CC4, Text1, Text2, Text3, or Text4.
 CAPTION

The term for the words that scroll across the bottom of the TV screen; usually the audio portion of the program provided for the hearing impaired.

• TEXT

The term for the words that appear in a large black frame and almost cover the entire screen; usually messages provided by the broadcaster.

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

* Digital Broadcasting System Captions



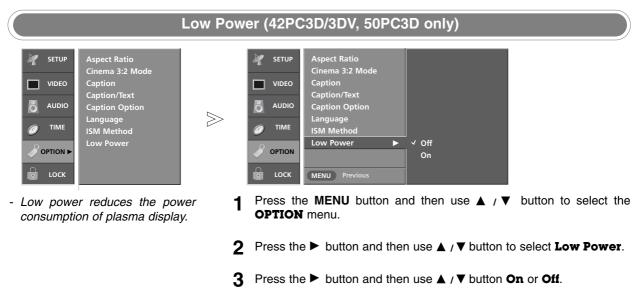
- Choose the language you want the DTV/CADTV Captions to appear in.
- Other languages can be chosen for digital sources only if they are included on the program.



- 1 Press the **MENU** button and then use ▲ / ▼ button to select the **OPTION** menu.
- **2** Press the \triangleright button and then use \blacktriangle / \checkmark button to select **Caption/Text**.
- **3** Press the ► button and then use ▲ / ▼ button to select available caption languages: **English**, **Spanish**, or **French**.
- **4** Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.

Option Menu Features continued Caption Option Aspect Ratio Cinema 3:2 Mode 17 Aspect Ratio Cinema 3:2 Mode Caption 07 SETUP SETUP Custom Style Size A Standard VIDEO VIDEC Font Font 0 Caption/Text Caption Option Text Color White AUDIC ô AUDIC **Caption Option** ြိ Solid **Text Opacity** Language ISM Method Low Power \geq Black Language ISM Method Ba Color TIME TIME a **Bg Opacity** Solid Edge Type None OPTION OPTION Edge Color Black LOCK LOCK MENU Previo 1 Press the **MENU** button and then use \blacktriangle / \checkmark button to select the - Customize the DTV/CADTV cap-**OPTION** menu. tions that appear on your screen. **2** Press the \blacktriangleright button and then use \blacktriangle / \checkmark button to select **Caption Option**. 3 Press the ▶ button and then use ◄ / ▶ button to select Custom. **4** Use \blacktriangle / \triangledown button to customize the Style, Font, etc., to your preference. A preview icon is provided at the bottom of the screen, use it to see the caption language. • Size: Set the size the words will appear in. • Font: Select a typeface for the words. Text Color: Choose a color for the text. • Text Opacity: Specify the opacity for the text color. • Bg (Background) Color: Select a background color. • Bg (Background) Opacity: Select the opacity for the background color.

- Edge Type: Select an edge type.
- Edge Color: Select a color for the edges.
- Press EXIT button to return to TV viewing or press MENU button to 5 return to the previous menu.



Press EXIT button to return to TV viewing or press MENU button to 4 return to the previous menu.

ISM (Image Sticking Minimization) Method (42PC3D/3DV, 50PC3D only)



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

>	 setup video Audio Time 	Aspect Ratio Cinema 3:2 Mode Caption Caption/Text Caption Option Language ISM Method ► Low Power	✓ Normal White Wash
		MENU Previous	Orbiter Inversion

- **1** Press the **MENU** button and then use \blacktriangle / \blacktriangledown button to select the **OPTION** menu.
- **2** Press the \blacktriangleright button and then use \blacktriangle / \blacktriangledown button to select **ISM Method.**
- 3 Press the ► button and then use ▲ / ▼ button to select Normal, White Wash, Orbiter or Inversion.

• Normal

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

• 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 the any button.

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: Left \rightarrow Right \rightarrow Upside \rightarrow Downside \rightarrow Right \rightarrow Left \rightarrow Downside \rightarrow Upside. • **Inversion**

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

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

Lock Menu Options

Parental Control can be used to block specific channels, ratings and other viewing sources.

The Parental Control Function (V-Chip) is used to block program viewing based on the ratings sent by the broadcasting station. The default setting is to allow all programs to be viewed. Viewing can be blocked by the type of program and by the categories chosen to be blocked. It is also possible to block all program viewing for a time period. To use this function, the following must be done :

- 1. Set ratings and categories to be blocked.
- 2. Specify a password
- 3. Enable the lock

V-Chip rating and categories

Rating guidelines are provided by broadcasting stations. Most television programs and television movies can be blocked by TV Rating and/or Individual Categories. Movies that have been shown at the theaters or direct-to-video movies use the Movie Rating System (MPAA) only.

For USA	For Canada
Ratings for Movies previously shown in theaters: Movie Ratings : • Blocking Off (Permits all programs) • G (General audience) • PG (Parental guidance suggested) • PG-13 (Parents strongly cautioned) • R (Restricted) • NC-17 (No one 17 and under admitted) • X (Adult only) If you set PG-13 : G and PG movies will be available, PG-13, R, NC-17 and X will be blocked. Ratings for Television programs including made-for-TV movies : • TV-G (General audience) • TV-PG (Parental guidance suggested) • TV-YG (General audience only) • TV-YG (All children) • TV-Y7 (Children 7 years older) TRating-Children: • Age (applies to TV-G, TV-PG, TV-14, TV-MA) • Dialogue- sexual dialogue (applies to TV-YG, TV-14) • Language- adult language (applies to TV-PG, TV-14, TV-MA) • Dialogue - sexual dialogue (applies to TV-PG, TV-14, TV-MA) • Dialogue - sexual dialogue (applies to TV-PG, TV-14, TV-MA) • Nolence (applies to TV-PG, TV-14, TV-MA) • Sex- sexual situations (applies to TV-PG, TV-14, TV-MA) • Violence (applies to TV-PG, TV-14, TV-MA) • Violence (applies to TV-PG, TV-14, TV-MA) • Nolence (applies to TV-PG, TV-14, TV-MA)	 TV Rating-English: E (Exempt) C (Children) C8+ (8 years and up) G (General programming. Suitable for all audiences) PG (Parental guidance suggested) 14+ (Viewers 14 years and up) 18+ (Adult programming) Blocking off (Permits all programming) Blocking off (Permits all programming) Blocking off (General) 8 ans+ (8 years and up) 13 ans+ (13 years and up) 16 ans+ (16 years and up) 18 ans+ (Adults only) Blocking off (Permits all programming) Input Block AV 1, 2 (On, Off) Component 1, 2 (On, Off) RGB and HDMI/DVI (On, Off)

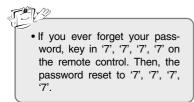
* For U.S.A.



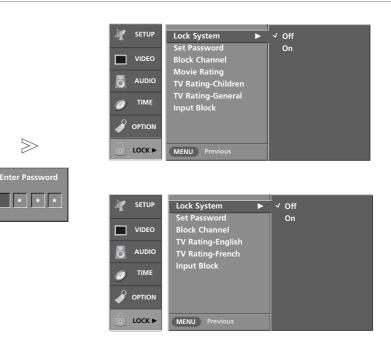
* For Canada



- Set up blocking schemes to block specific channels, ratings, and external viewing sources.
- A password is required to gain access to this menu if the Lock System is turned on.



Parental Lock Setup



- Press the **MENU** button and then use ▲ / ▼ button to select the **LOCK** menu. Then, press the ► button
 - If Lock is already set, enter the password as requested.
 - The TV is set up with the initial password "0-0-0-0".
- 2 Use the ▲ / ▼ button to choose from the following Lock Menu options. Once the option is selected, change the settings to your preference.
 - Lock System: Activates or disables the blocking scheme you set up previously.
 - Set Password: Change the password by inputting a new password twice.
 - Block Channel.: Select a channel number that you wish to block.
 - **Input block:** Enables you to select a source to block from the external source devices you have hooked up.
 - For USA
 - Movie Rating (MPPA): Blocks movies according to the movie ratings limits specified, so children cannot view certain movies. You can set the ratings limit by blocking out all the movies with the ratings above a specified level. Keep in mind that the movie ratings limit only applies to movies shown on TV, not TV programs, such as soap operas.
 - **TV Rating-Children:** Prevents children from watching certain children's TV programs, according to the ratings limit set. The children rating does not apply to other TV programs. Unless you block certain TV programs intended for mature audiences in the TV Rating sub menu, your children can view those programs.
 - **TV Rating-General:** Based on the ratings, blocks certain TV programs that you and your family do not want to view.
 - For Canada
 - TV Rating-English / TV Rating-French: Selecting canadian English /French language rating system.
- **3** Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.

RS-232C Setup

External Control Device Setup

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

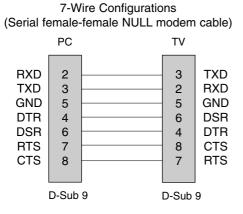
PC

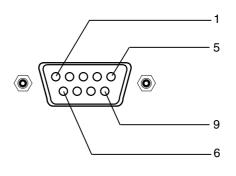
- Connect the serial port of the control device to the RS-232C jack on the TV back panel.
- RS-232C connection cables are not supplied with the TV.

Type of Connector; D-Sub 9-Pin Male

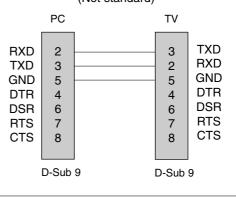
No.	Pin Name
1	No connection
2	RXD (Receive data)
3	TXD (Transmit data)
4	DTR (DTE side ready)
5	GND
6	DSR (DCE side ready)
7	RTS (Ready to send)
8	CTS (Clear to send)
9	No Connection

RS-232C Configurations





3-Wire Configurations (Not standard)





Set ID

- Use this function to specify a TV ID number.
- Refer to 'Real Data Mapping'. See page 56.
- 1. Press the **MENU** button and then use ▲ / ▼ button to select the **SETUP** menu.
- 2. Press the ▶ button and then use ▲ / ▼ button to select Set ID.
- Press the ► button and then use ▲ / ▼ 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.

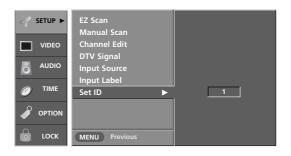
Communication Parameters

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

Command Reference List

C	OMMAND 1	COMMAND 2	DATA (Hexadecimal)
01. Power	k	а	0 ~ 1
02. Input Select	k	b	0 ~ 8
03. Aspect Ratio	k	С	* (Refer to p.56)
04. Screen Mute	k	d	0 ~ 1
05. Volume Mute	k	е	0 ~ 1
06. Volume Control	k	f	0 ~ 64
07. Contrast	k	g	0 ~ 64
08. Brightness	k	h	0 ~ 64
09. Color	k	i	0 ~ 64
10. Tint	k	j	0 ~ 64
11. Sharpness	k	k	0 ~ 64
12. OSD Select	k	1	0 ~ 1
13. Remote Control Lock	Mode k	m	0 ~ 1
14. Treble	k	r	0 ~ 64
15. Bass	k	S	0 ~ 64
16. Balance	k	t	0 ~ 64
17. Color Temperature	k	u	0 ~ 2
18. ISM Method	j	р	* (Refer to p.58)
19. Low Power	j	q	0 ~ 1
20. Orbiter Time Setting	g j	r	1 ~ FE
21. Orbiter Pixel Setting	g j	S	1 ~3

* Command 18~21: 42PC3D/3DV, 50PC3D models only



Transmission / Receiving Protocol

Transmission

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

- * [Command 1]: First command to control the set.(j,k,m or x)
- * [Command 2]: Second command to control the set.
- * [Set ID]: You can adjust the set ID to choose desired monitor ID number in Setup menu. Adjustment range is 1 ~ 99. When selecting Set ID '0', every connected the TV is controlled. Set ID is indicated as decimal (1~99) on menu and as Hexa decimal (0x0~0x63) on transmission/receiving protocol.
- * [DATA]: To transmit command data. Transmit 'FF' data to read status of command.
- * [Cr]: Carriage Return ASCII code '0x0D'
- * []: ASCII code 'space (0x20)'

OK Acknowledgement

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

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

Error Acknowledgement

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

- * The Monitor transmits ACK (acknowledgement) based on this format when receiving abnormal data from non-viable functions or communication errors.
- Data 1: Illegal Code
 - 2: Not supported function
 - 3: Wait more time

	COM- MAND 1	COM- MAND 2	DATA 0 (Hexadecimal)	DATA 1 (Hexadecimal)	DATA 2 (Hexadecimal)	DATA 3 (Hexadecimal)	DATA 4 (Hexadecimal)	DATA 5 (Hexadecimal)
22. Channel Tuning	m	а	physical/program high	major/program low	major low	minor high	minor low	attribute
23. Channel Add/Del	m	b	00 ~ 01					
24. Key	m	С	key code					
25. Input Select	x	b	*(Refer to p.59)				

Reference

01. Power (Command2:a)	
► To control Power On/Off of the TV.	
<u>Transmission</u>	
[k][a][][Set ID][][Data][Cr]	
Data 0 : Power Off	1 : Power On
<u>Acknowledgement</u>	
[a][][Set ID][][OK][Data][x]	
* In a like manner if other functions tr	onomit (EE' dot

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: DTV 5: Component 2 1: Analog 6: RGB-DTV 2: AV1 7: RGB-PC 3: AV2 8: HDMI/DVI 4: Component 1 Acknowledgement

	[b][][Set ID][][OK][Data][x]
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03. Aspect Ratio (Command2:c) (Main picture format)

To adjust the screen format. You can also adjust the screen format using the RATIO button on remote control or in the Option menu.

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

Date 1: 4:3	6: Set by program
2: 16:9	10: Cinema Zoom (1)
3: Horizon	
4: Zoom 1	
5: Zoom 2	1F: Cinema Zoom (16)

Acknowledgement

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

04. Screen Mute (Command2:d)

To select so	reen mute	on/off.
--------------	-----------	---------

Transmission

[k][d]	[][S	et ID][][Data][Cr]
Data	0	:	Screen mute off (Picture or
	1	:	Screen mute on (Picture of

Acknowledgement

[d][][Set ID][][OK][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) 1 : Volume mute on (Volume off)

```
Acknowledgement
```

[e][][Set ID][][OK][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 mapping' as shown below.

<u>Acknow</u>	ledo	<u>gem</u>	ent

[f][][Set ID][][OK][Data][x]
11.11	Toor ID I	loulparally

07. Contrast (Command2:g)

To adjust screen contrast. You can also adjust contrast in the Video menu.

Transmission

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

Data Min: 0 ~ Max: 64

• Refer to 'Real data mapping' as shown below.

Acknowledgement

08. Brightness (Command2:h)

To adjust screen brightness.

You can also adjust brightness in the Video menu. **Transmission**

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

- Data Min: 0 ~ Max: 64
 - Refer to 'Real data mapping' as shown below.
- Acknowledgement

[h][

[Set ID][][OK][Data][x]		
* Real data mapping		
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		

09. Color (Command2:i)

To adjust the screen color.

You can also adjust color in the Video menu.



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

Data Min: 0 ~ Max: 64

Refer to 'Real data mapping'. See page 56.
 <u>Acknowledgement</u>

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

10. Tint (Command2:j)

To adjust the screen tint.

You can also adjust tint in the Video menu.

Transmission

[k][j][][Set ID][][Data][Cr]][Set ID][
Data	Red : 0 ~ Green : 64	Red : 0 ~

• Refer to 'Real data mapping'. See page 56.

Acknowledgement

1[i]][Set ID][][OK][Data][x]
ונוו	loor pl	JONIDUUIIN

11. Sharpness (Command2:k)

To adjust the screen sharpness. You can also adjust sharpness in the Video menu.

Transmission

[k][k][][Set ID][][Data][Cr]

Data Min: 0 ~ Max: 64

Refer to 'Real data mapping'. See page 56.

<u>Acknowledgement</u>

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

12. OSD Select (Command2:I)

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

Transmission

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

Data 0: OSD off 1: OSD on

Acknowledgement

[I][][Set ID][][OK][Data][x]

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 1: Lock on

Acknowledgement

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

14. Treble (Command2:r)

► To adjust treble.

You can also adjust treble in the Audio menu.

<u>Transmission</u>

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

- Data Min: 0 ~ Max: 64
 - Refer to 'Real data mapping'. See page 56.

Acknowledgement

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

15. Bass (Command2:s)

- To adjust bass.
- You can also adjust bass in the Audio menu.

<u>Transmission</u>

[k][s][][Set ID][][Data][Cr]
	locupl	Jeanajerj

Data Min: 0 ~ Max: 64

Refer to 'Real data mapping'. See page 56.

<u>Acknowledgement</u>

r 1r	10 . 101	
ISI	Set ID][OK][Data][x]

16. 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

Refer to 'Real data mapping'. See page 56.

Acknowledgement

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

17. Color Temperature (Command2:u)

► To adjust color temperature.

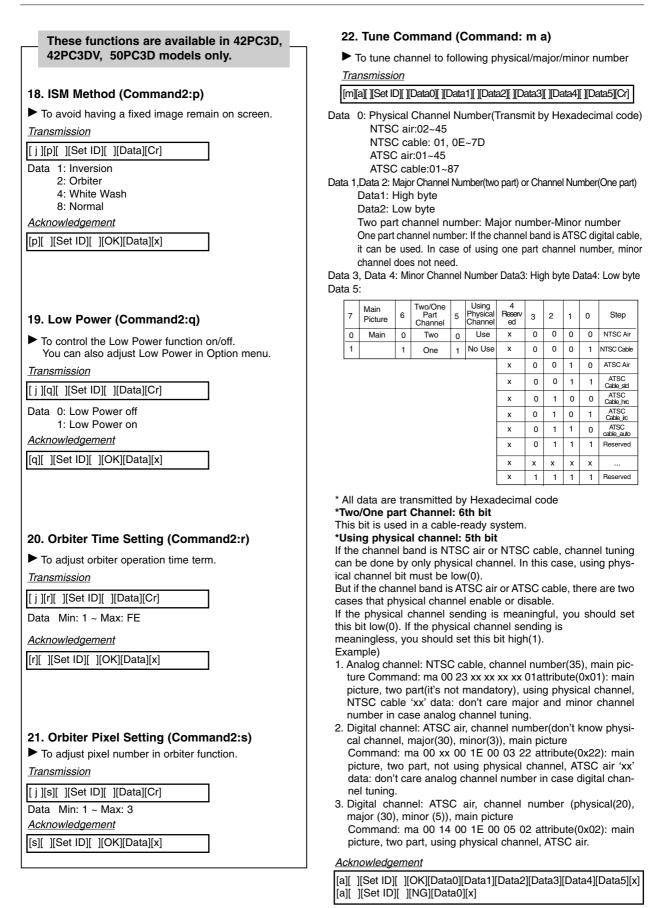
You can also adjust color temperature in the Video menu.

Transmission

[k][u][[Set ID][][Data][Cr]	
Data	0: Medium	1: Cool	2: Warm

Acknowledgement

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



23. Channel Add/Del (Command: m b)

To add and delete the channels

Transmission

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

Data 0: Channel Delete 1: Channel Add

Acknowledgement

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

24. Key (Command: m c)

► To send IR remote key code <u>Transmission</u>

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

Data Key code: Refer to page 61.

Acknowledgement

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

25. Input select(Command: x b) (Main Picture Input)

► To select input source for TV. <u>*Transmission*</u>

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

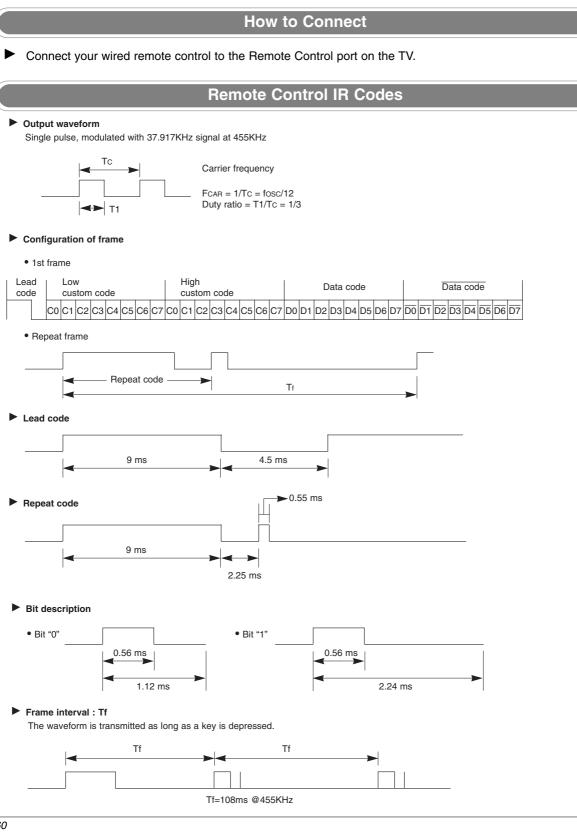
Data Structure

DATA(Hex)	INPUT
00	DTV (Antenna)
01	DTV (Cable)
10	Analog (Antenna)
11	Analog (Cable)
20	AV1
21	AV2
40	Component 1
41	Component 2
50	RGB DTV
60	RGB PC
90	HDMI/DVI

Acknowledgement

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

IR Codes

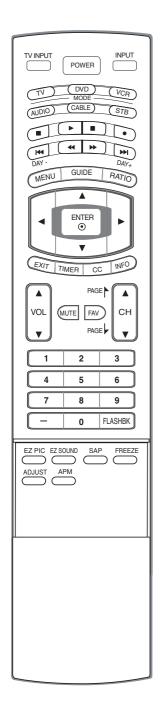


Code (Hexa)	Function	Note
0B	INPUT	R/C Button
0F	TV INPUT	R/C Button
08	POWER	R/C Button (Power On/Off)
C4	POWER ON	Discrete IR Code (Only Power On)
C5	POWER OFF	Discrete IR Code (Only Power Off)
79	RATIO	R/C Button
0E	TIMER	R/C Button
10 ~ 19	Number Key 0~ 9	R/C Button
4C	- (Dash)	R/C Button
1A	FLASHBK	R/C Button
09	MUTE	R/C Button
02	VOL 🛦	R/C Button
03	VOL	R/C Button
00	CH 🛦	R/C Button
01	CH V	R/C Button
1E	FAV	R/C Button
AA	INFO	R/C Button
39	CC	R/C Button
40		R/C Button
41	T	R/C Button
07		R/C Button
06		R/C Button
44	ENTER	R/C Button
43	MENU	R/C Button
A9	GUIDE	R/C Button
52	EZ SOUND	R/C Button
4D	EZ PIC	R/C Button
5B	EXIT	R/C Button
65	FREEZE	R/C Button
0A	SAP	R/C Button
CB	ADJUST	R/C Button
D6	TV	Discrete IR Code (TV Input Selection)
5A	AV1	Discrete IR Code (AV1 Input Selection)
D0	AV2	Discrete IR Code (AV2 Input Selection)
BF	COMPONENT 1	Discrete IR Code (Component1 Input Selection)
D4	COMPONENT 2	Discrete IR Code (Component2 Input Selection)
D5	RGB-PC	Discrete IR Code (RGB-PC Input Selection)
D7	RGB-DTV	Discrete IR Code (RGB-DTV Input Selection)
C6	HDMI/DVI	Discrete IR Code (DVI-DTV Input Selection)
76	Ratio 4:3	Discrete IR Code (Orly 4:3 Mode)
77	Ratio 16:9	Discrete IR Code (Only 16:9 Mode)
AF	Ratio Zoom	Discrete IR Code (Only Zoom1 Mode)

Programming the Remote

The remote control is a multi-brand or universal remote control. It can be programmed to operate most remote-controllable devices of other manufacturers. Note that the remote control may not control all models of other brands.

Programming a code into a remote mode



- 1 Test your remote control.
 - To find out whether your remote control can operate the component without programming, turn on the component such as a VCR and press the corresponding **MODE** button (VCR) on the remote control, while illuminating on the selected component. Test the **POWER** button to see if the component responds properly. If not, the remote requires programming to operate the device.
- 2 Turn on the component to be programmed, then press the corresponding **MODE** button on the remote control.
- **3** Press the **MENU** and **MUTE** buttons simultaneously for 2 seconds, the button selected component lights on the remote control. If you don't press any button for 20 seconds, the button selected component will turn off on the remote control. At a moment, you have to repeat from step 2.
- **4** Enter a code number using the number buttons on the remote. When pressing the button, the light is blinked at a time. Programming code numbers for the corresponding component can be found on the following pages. Again, if the code is correct, the device will turn off.
- **5** Press the **MENU** button to store the code. After blinking twice, this code is stored.
- **6** Test the remote control functions to see if the component responds properly. If not, repeat from step 2.

Programming Codes

VCRs

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

Cable Box

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

Digital Cable/Satellite Box

Brand	Codes	Brand C	Codes	Brand	Codes	Brand	Codes
ALPHASTAR DSR	123	1	33 134	PACE SKY SATELLITE	143		088 090 107 130
AMPLICA	050	GENERAL INSTRUMENT 0	03 004 016 029	PANASONIC	060 142		137
BIRDVIEW	051 126 129	0	031 059 101	PANSAT	121	TOSHIBA	002 127
CHANNEL MASTER	013 014 015 018	HITACHI 1	39 140	PERSONAL CABLE	117	UNIDEN	016 025 042 043
	036 055	HOUSTON TRACKER 0	033 037 039 051	PHILIPS	071		044 045 048 049
CHAPARRAL	008 009 012 077	0	057 104	PICO	105		078 079 080 086
СІТОН	054	HUGHES 0	068	PRESIDENT	019 102		101
CURTIS MATHES	050 145	JANIEL 0	060 147	PRIMESTAR	030 110 111	UNIDEN	135 136
DRAKE	005 006 007 010	JERROLD 0	061	PROSAT	072	VIEWSTAR	115
	011 052 112 116	KATHREIN 1	08	RCA	066 106	WINEGARD	128 146
	141	LEGEND 0)57	REALISTIC	043 074	ZENITH	081 082 083 084
DX ANTENNA	024 046 056 076	LG 0	001	SAMSUNG	123		091 120
ECHOSTAR	038 040 057 058	LUTRON 1	32	SATELLITE SERVICE CO	028 035 047 057		
	093 094 095 096	LUXOR 0	062 144		085		
	097 098 099 100	MACOM 0	010 059 063 064	SCIENTIFIC ATLANTA	032 138		
	122	0	065	SONY	103		
ELECTRO HOME	089	MEMOREX 0)57	STARCAST	041		
EUROPLUS	114	NEXTWAVE 0	28 124 125	SUPER GUIDE	020 124 125		
FUJITSU	017 021 022 027	NORSAT 0	069 070	TEECOM	023 026 075 087		

Audio

Brand	Cod	les			Brand	Cod	es			Brand	Cod	es			Brand	Cod	les		
AIWA	014	028	070	096	JVC	004	013	141		PHILIPS	026	112	143		TOSHIBA	137			
	125	129	139	229	KEC	185	186	187		PIONEER	039	042	043	063	THE	061			
	230				KENWOOD	038	050	067	089		065	091	093	094	VICTOR	088	131		
AKAI	163					170	171	197	206		115	123	127	250	WARDS	089			
ANAM	003	014	017	023		215	222			QUASAR	113				YAMAHA	054	055	066	092
	059	106	189	216	KOHEL	030				RCA	080					199			
	217	235	236		NAD	045	046			RCX	092								
BURMECTER	252				LOTTE	014	016	036	098	REALISTIC	103	106							
CARVER	086					100	172	173	174	SAMSUNG	124	145	146	182					
CLARION	199					175	176	177	178		193	194	195	203					
DAEWOO	027	053	060	084		179	180	181	183		204	244	245	246					
	102	148	198	221		201	202	208	213	SANSUI	011	135	138	144					
DENON	015	075	130	143		214	219	223	232	SANYO	019	083	234						
FANTASIA	071					238	240			SCOTT	106	186							
FINEARTS	022				LXI	103				SHARP	031	032	051	052					
FISHER	089	099			MAGNAVOX	111					072	082	117	119					
LG(GOLDSTAR)	001	021	024	029	MARANTZ	002	018	020	025		156	184	199	200					
	087	107	108	110		034	041	081	090		206	209							
	190	191	192	210		097	112			SHERWOOD	005	006	158						
	211	212	239		MCINTOSH	049				SONY	044	045	109	114					
HAITAI	034	035	188	222	MCS	104					118	126	248	249					
HARMAN/KARDON	068				MEMOREX	107				TAEKWANG	012	020	073	074					
INKEL	037	058	062	069	NAD	046					076	077	105	161					
	078	079	095	121	ONKYO	013	040	041	047		162	163	164	165					
	122	149	150	151		048	056	057	132		166	167	168	169					
	152	153	154	155		133	140				205	231	233	242					
	157	158	159	160	OPTIMUS	158				TEAC	010	085	106	136					
	189	207	222	224	PANASONIC	007	033	064	113		185	187	237						
	225	226	227	243		142	220	241	251	TECHNICS	101	113	128	134					
	247				PENNEY	104					147	218							

DVD

Brand C	Codes	Brand	Codes	Brand	Codes	Brand	Codes
DENON 02 GE 00 HARMAN KARDON 02 JVC 0	22 20 014 05 006 27 12 01 010 016 025	MAGNAVOX MARANTZ MITSUBISHI NAD ONKYO PANASONIC	013 024 002 023 008 017 003 009	PHILIPS PIONEER PROCEED PROSCAN RCA SAMSUNG	013 004 026 021 005 006 005 006 011 015	SONY THOMPSON TOSHIBA YAMAHA ZENITH	007 005 006 019 008 009 018 010 016 025

Troubleshooting Checklist

	The operation does not work normally.									
The remote control doesn't work	 Check to see if there is any object between the product and the remote control causing obstruction. Are batteries installed with correct polarity (+ to +, - to -)? Correct remote operating mode set: TV, VCR etc.? Install new batteries. 									
Power is suddenly turned off	 Is the sleep timer set? Check the power control settings. Power interrupted No broadcast on station tuned with Auto off activated. 									

	The video function does not work.
No picture & No sound	 Check whether the product is turned on. Try another channel. The problem may be with the broadcast. Is the power cord inserted into wall power outlet? Check your antenna direction and/or location. Test the wall power outlet, plug another product's power cord into the outlet where the product's power cord was plugged in.
Picture appears slowly after switching on	• This is normal, the image is muted during the product startup process. Please contact your service center, if the picture has not appeared after five minutes.
No or poor color or poor picture	 Adjust Color in menu option. Keep a sufficient distance between the product and the VCR. Try another channel. The problem may be with the broadcast. Are the video cables installed properly? Activate any function to restore the brightness of the picture.
Horizontal/verti- cal bars or pic- ture shaking	• Check for local interference such as an electrical appliance or power tool.
Poor reception on some channels	 Station or cable product experiencing problems, tune to another station. Station signal is weak, reorient antenna to receive weaker station. Check for sources of possible interference.
Lines or streaks in pictures	Check antenna (Change the direction of the antenna).

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

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

Maintenance

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

Cleaning the Screen

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

Cleaning the Cabinet

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

Extended Absence



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

Product Specifications

MO	DEL	32LC2D (32LC2D-UD)	37LC2D (37LC2D-UD)	42LC2D (42LC2D-UD)			
Dimensions	including stand	31.9 x 24.8 x 9.3 inches	37.2 x 28.7 x 11.3 inches	41.5 x 32.0 x 11.3 inches			
(Width x Height x Depth)		811 x 630 x 235 mm	944 x 729 x 286 mm	1054 x 813 x 286 mm			
	excluding stand	31.9 x 22.3 x 4.9 inches	37.2 x26.0 x 5.1 inches	41.5 x 29.4x 5.4 inches			
		811.0 x 566.8 x 123.5 mm	944.0 x 659.3 x 129.7 mm	1054.0 x 746.0 x 136.8 mm			
Weight	including stand	48.3 pounds / 21.9 kg	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		NTSC-M, ATSC, 64 & 256 QAM					
Program Coverage		VHF 2 ~ 13, UHF 14 ~ 69, CATV 1 ~ 135, CADTV 1 ~ 135, DTV 2 ~ 69					
External Antenna Imp	bedance		75 Ω				
	Operating Temperature		32 ~ 104°F (0 ~ 40°C)				
Environmental	Operating Humidity		Less than 80%				
condition	Storage Temperature		-4 ~ 140°F (-20 ~ 60°C))			
	Storage Humidity	Less than 85%					

MO	DEL	42PC3D (42PC3D-UD)	42PC3DV (42PC3DV-UD)	50PC3D (50PC3D-UD)			
Dimensions	including stand	44.4 x 29.5x 15.0 inches	44.4 x 29.5x 15.0 inches	51.3 x 34.3 x 14.0 inches			
(Width x Height x Depth)		1129.0 x 748.5 x 380.0mm	1129.0 x 748.5 x 380.0 mm	1302.6 x 872.0 x 355.8 mm			
	excluding stand	44.4 x 27.4 x 4.1 inches	44.4 x 27.4 x 4.1 inches	51.3 x 31.9 x 4.2 inches			
		1129.0 x 695 x 103.7 mm	1129.0 x 695 x 103.7 mm	1302.6 x 810.0 x 107.7 mm			
Weight	including stand	64.4 pounds / 29.2kg	62.6 pounds / 28.4 kg	114.4 pounds / 51.9 kg			
	excluding stand	55.8 pounds / 25.3 kg	54.0 pounds / 24.5 kg	95.0 pounds / 43.1 kg			
Power requirement	•	AC100-240V ~ 50/60Hz					
Television System		NTSC-M, ATSC, 64 & 256 QAM					
Program Coverage		VHF 2 ~ 13, UHF 14 ~ 69, CATV 1 ~ 135, CADTV 1 ~ 135, DTV 2 ~ 69					
External Antenna Imp	bedance	75 Ω					
	Operating Temperature	32 ~ 104°F (0 ~ 40°C)					
Environmental	Operating Humidity		Less than 80%				
condition	Storage Temperature	-4 ~ 140°F (-20 ~ 60°C)					
	Storage Humidity	Less than 85%					
Resolution		1024 x 768 (Dot)	852 x 480 (Dot)	1366 x 768 (Dot)			

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

