

LG Electronics Inc.

LCD TV | PLASMA TV OWNER'S MANUAL

LCD TV MODELS 26LC2R 32LC2R 32LC3R

LCD TV MODELS PLASMA TV MODELS

42PC1R 42PC1RV 42PC1RVH 42PC7R 42PC7RH

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

WARNING

IMPORTANT SAFETY INSTRUCTIONS

Important safety instructions shall be provided with each apparatus. This information shall be given in a separate booklet or sheet, or be located before any operating instructions in an instruction for installation for use and supplied with the apparatus.

This information shall be given in a language acceptable to the country where the apparatus is intended to be used.

The important safety instructions shall be entitled "Important Safety Instructions". The following safety instructions shall be included where applicable, and, when used, shall be verbatim as follows. Additional safety information may be included by adding statements after the end of the following safety instruction list. At the manufacturer's option, a picture or drawing that illustrates the intent of a specific safety instruction may be placed immediately adjacent to that safety instruction :



1

Read these instructions.

Keep these instructions. Heed all warnings. Follow all instructions.



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

This may cause a fire



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

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





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

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



Earth wire should be connected.

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

breaker should be employed and installed by a qualified electrician.

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





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

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



Wet Location Marking :

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

Do

Do not insert any object into the exhaust vent.

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



Do not place heavy objects on the product.

This may cause serious injury to a child or adult.

WARNING

IMPORTANT SAFETY INSTRUCTIONS

9

Do not use water the product while cleaning.

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



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

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

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

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



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

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





WARNING

WARNING

Contact the service center once a year to clean the internal part of the product. Accumulated dust can cause mechanical failure.

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

If not, eyes will strain.

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

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



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(14)

15)

Only use the specified batteries.

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



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NOTE

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

Ensure the power cord doesn't trail across

This may cause a fire or an electric shock.

any hot objects like a heater.

This may cause a fire or an electric shock.

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

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

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

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

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

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

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TV MENU

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BENEFIT

What is a Plasma TV ?

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

How does it work?

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

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

160° - Wide angle range of vision

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

Wide Screen

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

Multimedia

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

Versatile

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

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

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

FOR LCD TV

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

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

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

On Disposal

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

INTRODUCTION

ACCESSORIES

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



INTRODUCTION

CONTROLS

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

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

Front Panel Controls

42PC1R*



CONNECTION OPTION

This is the back panel of model 42PC1R*.

42PC1R*



42PC7R*

INTRODUCTION

CONTROLS

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

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

Front Panel Controls





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

INTRODUCTION

CONNECTION OPTIONS

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

Back Connection Panel



COMPONENT IN

Connect a component video/audio device to these jacks.

2 AV OUT

Connect a second TV or monitor.

AV (Audio/Video) IN 1

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

S-VIDEO

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

4 Remote Control Port

Connect your wired remote control.

G RGB/AUDIO IN

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

6 HDMI IN

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

VARIABLE AUDIO OUT

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

8 RS-232C IN (CONTROL &SERVICE) PORT Connect to the RS-232C port on a PC.

ANTENNA IN Connect over the air signals to

Connect over-the-air signals to this jack.

Power Cord Socket For operation with AC power. Caution: Never attempt to operate the TV on DC power.

INTRODUCTION

REMOTE CONTROL KEY FUNCTIONS

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



INTRODUCTION



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

Installing Batteries

- Open the battery compartment cover on the back side and install the batteries matching correct polarity (+ with +, - with -).
- Install two 1.5V AA batteries. Don't mix old or used batteries with new ones.

Close cover.

environment.

Remote control effective range

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



INSTALLATION

STAND INSTALLATION Installation Instruction Unfolding the stand base

This feature is not available for all models.



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

NOTE

Figures shown here may be slightly different from your set.

When closing the stand for storage

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

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



INSTALLATION STAND INSTALLATION



DESKTOP PEDESTAL INSTALLATION

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

26/32LC2R/32LC3R



A CAUTION

Ensure adequate ventilation by following the clearance recommendations.

INTRODUCTION

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.



Desktop Pedestal Installation

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





Wall Mount: Horizontal installation

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







<Only 42PC1R*> Remove two screws of the backside of the set before installing the wall mounting bracket.

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

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

42PC1R*/42PC7R*



26/32LC2R/32LC3R



- **1** Use the bracket and the bolt to fix the product to the wall as shown in the picture.
- **2** Secure the bracket with the bolt (not provided as parts of the product, must purchase separately) on the wall.
- ⁽³⁾ Use a sturdy rope (not provided as parts of the product, must purchase separately) to tie the product. It is safer to tie the rope so it becomes horizontal between the wall and the product.

NOTE

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

INSTALLATION

BASIC CONNECTION

Arrange the cables as shown picture.

INTRODUCTION

42PC1R*







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

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

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





て

Install the **CABLE MANAGEMENT** as shown.







HOW TO REMOVE THE CABLE MANAGEMENT

► For 26/32LC2R

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



► For 32LC3R

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



NOTE

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

CONNECTIONS & SETUP

ANTENNA CONNECTION

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



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



VCR SETUP

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

When connecting with an antenna

Connect the **ANT OUT** socket of the VCR to the **ANTENNA IN** socket on the set.

Connect the antenna cable to the RF antenna socket of the VCR.

Press the **PLAY** button on the VCR and match the appropriate channel between the TV and VCR for viewing.



When connecting with a RCA cable

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



Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)

Select **AV1** input source using the **INPUT** button on the remote control.

- If connected to AV IN 2, select AV2 input source.



NOTE

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

VCR SETUP

When connecting with an S-Video cable

1

Connect the S-VIDEO output of the VCR to the S-VIDEO input on the set. The picture quality is improved; compared to normal composite (RCA cable) input.

Connect the audio outputs of the VCR to the AUDIO input jacks on the set.



Select AV1 input source with using the INPUT button on the remote control.



NOTE

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

EXTERNAL EQUIPMENT CONNECTIONS

- 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.

6 AV IN 2 Camcorder Video Game Set

R AUDIO

VIDEO

Operate the corresponding external equipment. Refer to external equipment operating guide.

CONNECTIONS & SETUP

DVD SETUP

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.
- Connect the audio outputs of the DVD to the COMPONENT IN AUDIO jacks on the set.

Turn on the DVD player, insert a DVD.

- Select Component2 input source using the INPUT button on the remote control.
- If connected to Component 1, select Component1 input source.

Refer to the DVD player's manual for operating instructions.



NOTE

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

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

When connecting with a S-Video cable

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

Turn on the DVD player, insert a DVD.

Select AV1 input source with using the INPUT button on the remote control.

Refer to the DVD player's manual for operating instructions.



CONNECTIONS & SETUP

When connecting with a HDMI cable

9	

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



Select **HDMI** input source with using the **INPUT** button on the remote control.



Refer to the DVD player's manual for operating instructions.



NOTE

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

STB (SET-TOP BOX) SETUP

When connecting with a component cable

- 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.
 Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
 Select Component2 input source using the INPUT button on
 - Select **Component2** input source using the **INPUT** button of the remote control.
 - If connected to **Component 1**, select **Component1** input source.

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

When connecting with a HDMI to DVI cable

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

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





CONNECTIONS & SETUP

When connecting with a D-sub 15 pin cable

1

Connect the RGB output of the digital set-top box to the RGB IN (PC/DTV) jack on the set.



Connect the audio outputs of the set-top box to the AUDIO IN (RGB/DVI) jack on the set.



Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)

4

Select **RGB-DTV** input source with using the **INPUT** button on the remote control.



When connecting with a HDMI cable

Connect the HDMI output of the digital set-top box to the HDMI IN jack on the set.



Select **HDMI** input source with using the **INPUT** button on the remote control.



Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)



NOTE

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

PC SETUP

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

When connecting with a D-sub 15 pin cable

0

Connect the RGB output of the PC to the **RGB IN** (**PC/DTV**) jack on the set.

Connect the audio outputs of the PC to the AUDIO IN (RGB/DVI) jack on the set.



Turn on the PC and the set.

Select **RGB-PC** input source with using the **INPUT** button on the remote control.



NOTE

- To enjoy vivid picture and sound, connect a PC to the set.
- Avoid keeping a fixed image on the set's screen for a long period of time. The fixed image may become permanently imprinted on the screen; use a screen saver when possible.
- Connect PC to the RGB INPUT(PC INPUT) port of the set; change the resolution output of PC accordingly.
- There might be a noise according to some resolution, vertical pattern, contrast or brightness in PC mode. Then change the PC mode into other resolution or change the refresh rate into other rate or adjust the brightness and contrast on the menu until the picture is clean. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult it to the manufacturer of the PC graphic card.
- **5** The synchronization input form for Horizontal and Vertical frequencies is separate.

- We recommend using 640x480, 60Hz (42PC1RV/42PC1RVH)/1360x768, 60Hz (26/32LC2R/32LC3R/42PC1R/42PC7R/42PC7RH) for the PC mode, they provide the best picture quality.
- If the resolution of PC is over UXGA, there will be no picture on the set.
- Connect the audio cable from the PC to the Audio input on the set. (Audio cables are not included with the set).
- When you use too long RGB-PC cable, there might be a noise on the screen. We recommend using under 5m of the cable. It provides the best picture quality.
- This set does not support HDMI-PC.
- RGB-PC 640*350 mode is only for DOS, it is possible that dose not full the whole screen.

CONNECTIONS & SETUP

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

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

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

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

TURNING THE TV ON

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

Turning on the TV

1

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

In standby mode to turn TV on, press the b//www.chi.example.com
 INPUT, CH ▲ / ▼ button on the TV or press the POWER, TV, INPUT, CH +/-, Number(0~9) button on the remote control and then the TV will switch on.

Volume Adjustment



Press the VOL +/- button to adjust the volume.



If you want to switch the sound off, press the MUTE button.



You can cancel this function by pressing the MUTE, VOL +/- or MTS button.

Channel Adjustment

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

NOTE

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



CONNECTIONS & SETUP

TV MENU

PIP (PICTURE-IN-PICTURE)

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

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

Watching PIP

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





Channel Selection for Sub Picture

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

Input Source Selection for Sub Picture

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

Sub Picture Size Adjustment (PIP mode only)

Press the SIZE button to adjust the sub picture size.

With **SIZE** button in PIP mode, sub picture is adjusted.

Moving the Sub Picture (PIP mode only)

Press the **POSITION** button.

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

ON SCREEN MENUS SELECTION AND ADJUSTMENT

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



TV MENU Channel Menu Options

AUTO PROGRAM: CHANNEL SEARCH

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

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

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

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

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

Broadcast TV Channels Cable TV Channels

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



Press the **MENU** button and then \blacktriangle / \checkmark button to select the **Channel** menu.



1)

Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **Auto program**.

Press the ► button. AUTO PROGRAM starts the channel search.

If you want to stop auto programming, press the **MENU** button.

Only the channels found up to at that time are memorized.







MANUAL PROGRAM: ADDING/DELETING CHANNELS

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





Use the CH-/+ or NUMBER buttons to select the channel number you want to add or delete.



Press the **MEMORY/ERASE** button.

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

1

2

3

4

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6

FINE TUNING

Normally fine tuning is only necessary if reception is poor.



Auto program

Manual program

Favorite channel

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Men ory

Fine

▲► ▲▼ ◎ MENU

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FAVORITE CHANNELS SETUP

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

	1	

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

- Press the \blacktriangleright button and then \blacktriangle / \checkmark button to select **Favorite Channel**.
- 3
-

Press the ► button.

- Press the \blacktriangle / \bigtriangledown button to select - - -.
- 5 Select a desired program with the \triangleleft / \triangleright button.
- 6 To store another program, repeat steps **4** to **5**. You can store up to 8 programs.
- 7 Press the **EXIT** button to return to normal TV viewing.







TV MENU Picture Menu Options

AUTO PICTURE CONTROL (APC)

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





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(4)

Press the **MENU** button and then \blacktriangle / \blacktriangledown button to select the **Picture** menu.

Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **APC**.



Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **Clear, Optimum, Soft, User 1**, or **User 2**.

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

APC adjusts the TV for the best picture appearance. Select the preset value in the APC menu based on the program category.

Clear, Optimum and Soft, are programmed for optimum picture reproduction at the factory and cannot be changed.





23

PICTURE ADJUSTMENT (APC-USER OPTION)

Cont Brigh Color Sharr Tint	rast tness pness	Adjusts the difference between the light and dark levels in the picture. Increases or decreases amount of white in the your picture. Adjusts intensity of all colors. Adjusts the level of crispness in the edges between the light and dark areas of the picture. The lower the level, the softer the image. Adjusts the balance between red and green levels.	n
0	Press the P	the MENU button and then ▲ / ▼ button to select icture menu.	Picture APC ACC XD Advanced
2	Press the \blacktriangleright button and then \blacktriangle / \checkmark button to select APC .		Reset
3	Press or Us e	the ► button and then ▲ / ▼ button to select User 1 , er 2.	
4	Press desire Sharg	the ► button and then ▲ / ▼ button to select the ed picture option (Contrast , Brightness , Color , pness , and Tint).	Picture APC ► Clear ACC Optimum Soft Advanced ∨ User 1
5	Press make	the ► button and then press the ◀ / ► button to appropriate adjustments.	Reset User 2
6	Press MEN	the EXIT button to return to TV viewing or press the U button to return to the previous menu.	
0	ΝΟΤΙ	E	User 1 Contrast 100 > Brightness 50 Color 50 Sharpness 50 Tirt 0

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



.....**>**

Contrast 85 <

AUTO COLOR TEMPERATURE CONTROL (ACC)

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

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





Press the **MENU** button and then \blacktriangle / \blacktriangledown button to select the **Picture** menu.



Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **ACC**.



4

Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select either **Cool**, **Normal**, **Warm**, or **User**.

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





MANUAL COLOR TEMPERATURE CONTROL (ACC - USER OPTION)

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









0



Picture



Picture Menu Options

XD FUNCTION

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

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



Press the **MENU** button and then \blacktriangle / \blacktriangledown button to select the **Picture** menu.

Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **XD**.

Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **Auto** or **Manual**.



3

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

* Selecting the Manual

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



Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **XD** Contrast, **XD** Color or **XD** NR.

2 3 Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **On** or **Off**.

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

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











ADVANCED-CINEMA

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

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



Press the MENU button and then \blacktriangle / \blacktriangledown button to select the Picture menu.
Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select Advanced .
Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select Cinema .
Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select On or Off .

Picture APC ACC X□ Advanced Reset Advanced Reset Advanced Reset



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





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ADVANCED-BLACK LEVEL

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



Press the **MENU** button and then \blacktriangle / \blacktriangledown button to select the **Picture** menu.



Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **Advanced**.



(4)

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Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **Black Level**.

Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **Low** or **High**.



- *Low* : The reflection of the screen gets darker.
- *High* : The reflection of the screen gets brighter.

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









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RESET



Press the **MENU** button and then \blacktriangle / \blacktriangledown button to select the **Picture** menu.

2 Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **Reset**.

3 Press the \blacktriangleright button to initialize the adjusted value.

• Returns to the default settings APC, ACC, XD, Advanced at the factory.







TV MENU Sound Menu Options

DIGITAL AUTO SOUND PROCESSING (DASP)

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

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

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

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





Press the **MENU** button and then \blacktriangle / \checkmark button to select the **Sound** menu.

2 Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **DASP**.



4)

Press the ► button and then ▲ / ▼ button to select Surround MAX, Flat, Music, Movie, Sports or User.

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





SOUND FREQUENCY ADJUSTMENT (DASP - USER OPTION)

Adjust the sound equalizer.

0	Press the MENU button and then \blacktriangle / \blacktriangledown button to select the Sound menu.
2	Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select DASP .
3	Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select User .
4	Press the ▶ button.
5	Select a sound band by pressing the \blacktriangleleft / \blacktriangleright button. Make appropriate sound level with the \blacktriangle / \blacktriangledown button.
6	Press the EXIT button to return to TV viewing or press the

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







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AUTO VOLUME LEVELER (AVL)

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



Press the **MENU** button and then \blacktriangle / \blacktriangledown button to select the **Sound** menu.

2 Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **AVL**.

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Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **On** or **Off**.

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



TV MENU

STEREO/SAP BROADCASTS SETUP

- The TV can receive MTS stereo programs and any SAP (Secondary Audio Program) that accompanies the stereo program; if the broadcaster transmits one additional sound signal in addition to the original one.
- Mono: The primary language is heard from left and right speakers. Signal mode is mono.
- Stereo: The primary language is heard from left and right speakers. Signal mode is stereo.
- SAP: The secondary language is heard from left and right speakers in mono sound.
- 1

Press the **MTS** button repeatedly. Each time you press **MTS** button, Mono, Stereo, or SAP appear in turn.

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



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NOTE

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

BALANCE ADJUSTMENT

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the **Sound** menu.

desired adjustment.

Balance.

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

Press the **MENU** button and then \blacktriangle / \blacktriangledown button to select

Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select

Press the \blacktriangleright button and then \blacktriangleleft / \blacktriangleright button to make

MENU button to return to the previous menu.

Press the EXIT button to return to TV viewing or press the









Sound Menu Options

SPEAKER

You can adjust the internal speaker status. In Video, COMPONENT, RGB[PC], RGB[DTV] and HDMI mode, internal speaker audio or variable audio can be outputted even though there is no video signal. If you want to use your external hi-fi stereo system, turn off the internal speakers of the set.



DASP

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AVL Balance

Speake

AV < > 💿 MENU



Press the **MENU** button and then \blacktriangle / \blacktriangledown button to select the **Sound** menu.



Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **Speaker**.



(4)

Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **On** or **Off**.

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



23

Timer Menu Options

CLOCK SETUP

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

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



Press the **MENU** button and then \blacktriangle / \blacktriangledown button to select the **Timer** menu.



Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **Clock**.

Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to set the hour.



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Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to set the minutes.

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





TV MENU



234

Timer Menu Options

ON/OFF TIMER

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

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

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

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

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



Press the **MENU** button and then \blacktriangle / \blacktriangledown button to select the **Timer** menu.



Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **Off timer/On timer**.



Press the ► button and then ▲ / ▼ button to select On.
To cancel On/Off timer function, select Off.



Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to set the hour.



Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to set the minutes.



For only On timer function

- **Volume**: Press the ► button and then ▲ / ▼ button to adjust volume level at turn-on.
- **Channel**: Press the ► button and then ▲ / ▼ button to select the Channel.

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







2345



AUTO OFF

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



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Press the **MENU** button and then \blacktriangle / \blacktriangledown button to select the **Timer** menu.

- Press the ► button and then ▲ / ▼ button to select Auto off.
 - Press the \blacktriangleright button and then $\blacktriangle / \checkmark$ button to select **On** or **Off**.
 - Press the EXIT button to return to TV viewing or press the MENU button to return to the previous menu.



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MENU

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Timer



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SLEEP TIMER

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



Press the **SLEEP** button repeatedly to select the number of minutes. The display $(a)^{2^2} - a^2$ will appear on the screen, followed by 10, 20, 30, 60, 90, 120, 180 and 240.

When the number of minutes you want is displayed on the screen, the timer begins to count down from the number of minutes selected.

NOTE

2)

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

TV MENU **Special Menu Options**

LANGUAGE

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





Press the **MENU** button and then \blacktriangle / \triangledown button to select the **Special** menu.



Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select Language.



4

Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select your desired language.



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



Special Menu Options

KEY LOCK

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



Press the **MENU** button and then \blacktriangle / \blacktriangledown button to select the **Special** menu.



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4)

Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **Key lock**.

Press the \triangleright button and then \blacktriangle / \checkmark button to select **On** or **Off**.

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





√ On

Off

Language Key lock

ISM Method

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Low Power Set ID Caption/Text



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NOTE

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

ISM (IMAGE STICKING MINIMIZATION) METHOD

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

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

White wash

White wash removes permanent images from the screen. **Note:** An excessive permanent image may be impossible to clear entirely with White Wash.

Orbiter

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

Inversion

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



Press the **MENU** button and then \blacktriangle / \blacktriangledown button to select the **Special** menu.



1)

Press the \triangleright button and then \blacktriangle / \checkmark button to select **ISM Method**.



Press the ▶ button and then ▲ / ▼ button to select either **Normal**, **White wash**, **Orbiter** or **Inversion**. If you unnecessary to set this function, set **Normal**.

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









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LOW POWER

This is the function to reduce the power consumption of the set. It's not available to use this function in 26/32LC2R/32LC3R models.



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Set ID Caption/Text

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Special Menu Options

CLOSED CAPTIONS

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

Using Closed Captions

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



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

• The picture at left shows a typical caption.

Caption Tips

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

1. Poor reception conditions are encountered:





• IGNITION:

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

• GHOSTS:

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

• SNOW:

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

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



Use the **CAPTION** button repeatedly to select your caption Mode1, Mode2, Text1, Text2, Off.

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



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

XD DEMO

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

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

Press the MENU button and then use ▲ / ▼ button to select the Special menu.

Press the \blacktriangleright button and then use \blacktriangle / \blacktriangledown button to select **XD Demo**.

- Press the ► button to begin **XD Demo**.
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To stop **XD Demo**, press the **MENU** button.









• XD Demo



TV MENU Screen Menu Options

AUTO CONFIGURE (RGB [PC] MODE ONLY)

Automatically adjusts picture position and minimizes image shaking.

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

Auto configure

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





Press the **MENU** button and then use \blacktriangle / \blacktriangledown button to select the **Screen** menu.



TV MENU

Press the ► button and then use ▲ / ▼ button to select Auto config.



Press the button to start Auto config.

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



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



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





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MANUAL CONFIGURE

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

To correct the screen size, adjust Clock.

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

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

- **Clock** This function is to minimize any vertical bars or stripes visible on the screen background. And the horizontal screen size will also change.
- **Phase** This function allows you to remove any horizontal noise and clear or sharpen the image of characters.





- Press the MENU button and then use ▲ / ▼ button to select the **Screen** menu.
 - Press the ► button and then ▲ / ▼ button to select Manual config.

2

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- 3 Press the ► button and then ▲ / ▼ button to select **Phase**, **Clock**, **H**-**position** or **V**-**position**.
 - Press the ◀ / ► button to make appropriate adjustments.
- **5** Press the **EXIT** button to return to TV viewing or press the **MENU** button to return to the previous menu.



SETTING THE PICTURE FORMAT

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

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





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

• 4:3

Following selection will lead you to view a picture with an original 4:3 aspect ratio, with gray bars appearing at both the left and right sides.

• 16:9 (Wide)

Following selection will lead you to adjust the picture horizontally, in a linear proportion, to fill the entire screen (useful for viewing 4:3 formatted DVDs).

• Horizon

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

• Zoom1

Following selection will lead you to view the picture without any alternation, while filling the entire screen. However, the top and bottom portions of the picture will be cropped.

• Zoom2

2

Choose **Zoom2** when you want the picture to be altered, both horizontally extended and vertically cropped. The picture taking a halfway trade off between alteration and screen coverage.

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







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NOTE

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

SELECTING WIDE VGA/XGA MODE

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

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

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



Press the MENU button and then use \blacktriangle / \checkmark button to select the **Screen** menu.

Press the ► button and then use ▲ / ▼ button to select VGA mode (or XGA mode).



Press the \blacktriangleright button and then use \blacktriangle / \blacktriangledown button to select the desired VGA/XGA resolution.

4

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





INITIALIZING (RESET TO ORIGINAL FACTORY SETTINGS)

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



Press the **MENU** button and then \blacktriangle / \blacktriangledown button to select the Screen menu.



Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select Reset.



Press the ▶ button.

• You can initialize Position, PIP size, PIP position. (PIP size and PIP position are available to work in PIP mode only.)







APPENDIX

EXTERNAL CONTROL DEVICE SETUP

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

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

RS-232C Setup



Type of Connector; D-Sub 9-Pin Male

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



APPENDIX

7-Wire Configurations (Standard RS-232C cable)				
	PC	ΤV		
RXD	2 👞	<u> </u>	TXD	
TXD	3 👞	<u> </u>	RXD	
GND	5 👞	<u> </u>	GND	
DTR	4 •	• 6	DSR	
DSR	6 🕳	• 4	DTR	
RTS	7 •	• 8	CTS	
CTS	8 •	• 7	RTS	
	D-Sub 9	D-Sub 9		

RS-232C Configurations

3-Wire Configurations(Not standard)				
	PC	TV		
RXD	2 •	• 3	TXD	
TXD	3 •	• 2	RXD	
GND	5 •	• 5	GND	
DTR	4	6	DTR	
DSR	6	4	DSR	
RTS	7	7	RTS	
CTS	8	8	CTS	
	D-Sub 9	D-Sub 9		

Set ID

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



2

- Press the **MENU** button and then \blacktriangle / \blacktriangledown button to select the **Special** menu.
- Press the \blacktriangleright button and then use \blacktriangle / \blacktriangledown button to select **Set ID**.



Press the ► button and then use ◄ / ► button to adjust **Set ID** to choose the desired monitor ID number.

- The adjustment range of **Set ID** is 1 ~ 99.
- Press the **EXIT** button to return to normal TV viewing.





Communication Parameters

- Baud rate : 9600 bps (UART)
- Data length : 8 bits
- Parity : None

- Stop bit : 1 bit
- Communication code : ASCII code
- Use a crossed (reverse) cable.

Command Reference List

	COMMAND1	COMMAND2	DATA (Hexadecimal)	co	MMAND1	COMMAND2	DATA (Hexadecimal)
01. Power	k	а	0 ~ 1	16. Color Temperature	k	u	0 ~ 3
02. Aspect Ratio	k	с	*	17. Red Adjustment	k	v () ~ 3C (or 50)
03. Screen Mute	k	d	0 ~ 1	18. Green Adjustment	k	w (0 ~ 3C (or 50)
04. Volume Mute	k	e	0 ~ 1	19. Blue Adjustment	k	\$ () ~ 3C (or 50)
05. Volume Control	k	f	0 ~ 64	20. Abnormal Status (option) k	z	FF
06. Contrast	k	g	0 ~ 64	21. ISM Method (option) ј	р	0 ~ 3
07. Brightness	k	h	0 ~ 64	22. Low Power (option)	j	q	0 ~ 1
08. Color	k	i	0 ~ 64	23. Orbiter Time Setting (option	ı) j	r	1 ~ FE
09. Tint	k	j	0 ~ 64	24. Orbiter Pixel Setting (option) j	S	1 ~ 3
10. Sharpness	k	k	0 ~ 64	25. Auto Configure	j	u	1
11. OSD Select	k	I	0 ~ 1	26. Tune Command	m	а	*
12. Remote Control	k	m	0 ~ 1	27. Кеу	m	с	Key Code
lock mode				28. Input select (Main)	х	b	*
13. PIP/DW	k	n	0 ~ 2	29. Input select (PIP)	х	у	*
14. PIP Position	k	q	0 ~ 3	30. Channel Add/Del	m	b	0~1
15 Balance	k	t	0 ~ 64				

Transmission / Receiving Protocol

C C
Transmission
[Command1][Command2][][Set ID][][Data][Cr]
[Command 1] : First command to control the set (ik mor x)
[Command 2] : Second command to control the set.
[Set ID] : You can adjust the set ID to choose desired TV ID
number in Setup menu. Adjustment range is 1~ 99.
When selecting Set ID '0', every connected the TV
is controlled. Set ID is indicated as decimal (1 \sim
99) on menu and as Hexa decimal (0x0~ 0x63)
on transmission/receiving protocol.
[DATA] : To transmit command data.
Transmit 'FF' data to read status of command.
[Cr] : Carriage Return
ASCII code '0x0D'
[] : ASCII code 'space (0x20)'

OK Acknowledgement

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

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

Error Acknowledgement

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

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

Data1: Illegal Code Data2: Not supported function Data3: Wait more time

APPENDIX

01. Power (Command2:a)

To control Power On/Off of the TV.

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

Data 0 : Power Off Data 1 : Power On

Acknowledgement [a][][Set ID][][OK][Data][x] To show Power On/Off.

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

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

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

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

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

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

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

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

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

03. Screen Mute (Command2:d)

To select screen mute on/off.

Transmission [k][d][][Set ID][][Data][Cr] Data 0 : Screen mute off (Picture on) Data 1 : Screen mute on (Picture off)

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

04. Volume Mute (Command2:e)

To control volume mute on/off.

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

Transmission [k][e][][Set ID][][Data][Cr] Data 0 : Volume mute off (Volume on)

Data 1 : Volume mute on (Volume off)

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

05. Volume Control (Command2:f)

To adjust volume. You can also adjust volume with the volume buttons on remote control. *Transmission* [k] [f] [][Set ID] [][Data] [Cr] Data Min : 0 ~ Max : 64 Refer to 'Real data mapping 1 '. See page 68. *Acknowledgement* [f] [][Set ID] [][OK][Data] [x]

06. Contrast (Command2:g)

To adjust screen contrast. You can also adjust contrast in the PICTURE menu. *Transmission* [k][g][][Set ID][][Data][Cr] Data Min : 0 ~ Max : 64 Refer to 'Real data mapping 1'. See page 68. *Acknowledgement* [g][][Set ID][][OK][Data][x]

07. Brightness (Command2:h)

To adjust screen brightness. You can also adjust brightness in the PICTURE menu.

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

 Data Min : 0 ~ Max : 64
 64

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

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

08. Color (Command2:i)

To adjust the screen color. You can also adjust color in the PICTURE menu. *Transmission* [k] [i] [] [Set ID] [] [Data] [Cr] Data Min : 0 ~ Max : 64

Refer to 'Real data mapping 1'. See page 68. Acknowledgement [i][][Set ID][][OK][Data][x]

09. Tint (Command2:j)

To adjust the screen tint. You can also adjust tint in the PICTURE menu. *Transmission* [k][j][][Set ID][][Data][Cr] Data Red : 0 ~ Green : 64

Refer to 'Real data mapping 1'. See page 68. Acknowledgement [j][][Set ID][][OK][Data][x]

APPENDIX

10. Sharpness (Command2:k)

To adjust the screen sharpness.

You can also adjust sharpness in the PICTURE menu. *Transmission* [k][k][][Set ID][][Data][Cr] Data Min: 0 ~ Max: 64

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

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

11. OSD Select (Command2:l)

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

Transmission [k] [I] [][Set ID] [][Data] [Cr] Data 0: OSD off Data 1: OSD on Acknowledgement [I] [][Set ID] [][OK][Data] [x]

12. Remote Control Lock Mode (Command2:m)

To lock the remote control and the front panel

controls on the set.

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

Data 0: Lock off Data 1: Lock on

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

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

13. PIP / DW (Command2:n)

To control the PIP (Picture In picture)/DW. You can also control the PIP/DW using the PIP button on the remote control or in the PIP/DW menu.

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

Data 0:PIP/DW offData 1: PIPData 2: DW1 (option)Data 3: DW2Data 5: POP (option)

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

14. PIP Position (Command2:q)

To select sub picture position for PIP. You can also adjust the sub picture position using POSITION button on the remote control or in the PIP/DW menu. *Transmission* [k][q][][Set ID][][Data][Cr] Data 0: Right down on screen Data 1: Left down on screen Data 2: Left up on screen Data 3: Right up on screen *Acknowledgement* [q][][Set ID][][OK][Data][x]

15. Balance (Command2:t)

To adjust balance. You can also adjust balance in the SOUND menu. *Transmission* [k][t][][Set ID][][Data][Cr] Data Min: 0 ~ Max: 64 Refer to 'Real data mapping 1'. See page 68. *Acknowledgement* [t][][Set ID][][OK][Data][x]

16. Color Temperature (Command2:u)

To adjust color temperature. You can also adjust ACC in the PICTURE menu. *Transmission* [k] [u] [][Set ID] [][Data] [Cr] Data 0: Cool 1: Normal 2: Warm 3: User *Acknowledgement* [u] [][Set ID] [][OK] [Data] [x]

17. Red Adjustment (Command2:v)

To adjust red in color temperature. *Transmission* [k] [v] [] [Set ID] [] [Data] [Cr] Data Min: 0 ~ Max: 3C (or 50) Refer to 'Real data mapping 2'. See page 68. *Acknowledgement* [v] [][Set ID] [][OK] [Data] [x]

18. Green Adjustment (Command2:w)

To adjust green in color temperature. *Transmission* [k] [w] [] [Set ID] [] [Data] [Cr] Data Min: 0 ~ Max: 3C (or 50) Refer to 'Real data mapping 2'. See page 68. *Acknowledgement* [w] [][Set ID] [][OK] [Data] [x]

19. Blue Adjustment (Command2:\$)

To adjust blue in color temperature.

Transmission [k][\$][][Set ID][][Data][Cr] Data Min: 0 ~ Max: 3C (or 50) Refer to 'Real data mapping 2'. See page 68.

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

APPENDIX

20. Abnormal State (Command2:z)

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

Transmission [k] [z] [] [Set ID] [] [FF] [] [Cr] Data FF: Read

Acknowledgement [z][][Set ID][][OK][Data][x] Data 0: Normal (Power on and signal exist) Data 1: No signal (Power on) Data 2: Turn the TV off by remote control Data 3: Turn the TV off by sleep time function Data 4: Turn the TV off by RS-232C function Data 5: 5V down Data 6: AC down Data 7: Turn the TV off by Fan Alarm function (option) Data 8: Turn the TV off by Off time function Data 9: Turn the TV off by Auto sleep function * This function is "read only".

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

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

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

Data 0: Normal Mode	Data 1: White Wash
Data 2: Orbiter	Data 3: Inversion

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

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

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

Transmission [j][q][][Set ID][][Data][][Cr] Data 0: Off Data 1: On

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

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

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

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

Data Min: 1 ~ Max: FE

Refer to 'Real data mapping 1'.

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

24 . Orbiter Pixel Setting (Command1:j, Command2:s) To adjust pixel number in orbiter function. (This feature is not available for all models.)

Transmission [j] [s] [] [Set ID] [] [Data] [Cr] Data Min: 1 ~ Max: 3 Refer to 'Real data mapping 1'. Acknowledgement [s][][Set ID][][OK][Data][x]

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

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

Transmission [j][u][][Set ID][][Data][Cr] Data 1: To set

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

26 . Tune Command (Command1:m, Command2:a) Tune channel to following physical number.

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

Data 0: Air: 02 ~ 45, CATV: 01, 0E ~ 87 Refer to 'Real data mapping 1'. Data 1: Don't care Data 2: Don't care Data 3: Don't care Data 4: Don't care Data 5: 0 : Main[Air] 80 : Sub[Air] (option) 1 : Main[Cable] 81 : Sub [Cable]

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

Data Min: 0 ~ Max: 87

* Real data mapping 2
0 : -30
2 : -28
1E:0
i 3A : +28
3B:+29 3C:+30

FE : Step 254 FF : Step 255

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

To send IR remote key code.

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

Data: Key code - Refer to page 71.

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

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

To select input source for TV.

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



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

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

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

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

To adjust input source for sub picture in PIP mode.

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

	MSB							LSB
	0	0	0	0	0	0	0	0
External Input					L _{In}	put N	umber	

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

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

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

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

To add and delete the channel.

Transmission [m][b][][Set ID][][Data][Cr] Data 0: Delete Data 1: Add Acknowledgement [b][][Set ID][][OK][Data][x]

APPENDIX IR CODES

1. How to Connect

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

2. Remote Control IR Codes

Output waveform

Single pulse, modulated with 37.917KHz signal at 455KHz



Configuration of frame

1 st frame



Repeat frame



Lead code



Bit description





Frame interval: Tf

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



APPENDIX
REMOTE CONTROL IR CODES

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

APPENDIX

APPENDIX

PROGRAMMING THE REMOTE

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

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

Programming a code into a remote mode



Test your remote control.

To find out whether your remote control can operate the component without programming, turn on the component such as a VCR and press the corresponding mode button (such as a DVD or VCR) on the remote control, while pointing at the component. Test the **POWER** and **CH** +/- buttons to see if the component responds properly. If not, the remote requires programming to operate the device.



Turn on the component to be programmed, then press the corresponding mode button (such as a **DVD** or **VCR**) on the remote control. The remote control button of desired device is lighted.



Press the **MENU** and **MUTE** buttons simultaneously, the remote control is ready to be programmed for the code.

Enter a code number using the number buttons on the remote control. Programming code numbers for the corresponding component can be found on the following pages. Again, if the code is correct, the device will turn off.



6

Press the **MENU** button to store the code.

Test the remote control functions to see if the component responds properly. If not, repeat from step 2.

Programming code

DVD

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

VCRs

Brand	Codes	Brand	Codes	Brand	Codes
AIWA	034	MAGNAVOX	031 033 034 041	SAMSUNG	032 040 102 104
AKAI	016 043 046 124		067 068		105 107 109 112
	125 146	MARANTZ	012 031 033 067		113 115 120 122
AMPRO	072		069		125
ANAM	031 033 103	MARTA	101	SANSUI	022 043 048 135
AUDIO DYNAMICS	012 023 039 043	MAISUI	02/ 030	SANYO	003 00/ 010 014
BRUKSUNIC	035 037 129			SCOTT	102 134 017 077 112 120
CAPEHART	108	MEMOREA	003 010 014 031	30011	131
CRAIG	003 040 135		101 102 134 139	SFARS	003 008 009 010
CURTIS MATHES	031 033 041	MGA	045 046 059	52,000	013 014 017 020
DAEWOO	005 007 010 064	MINOLTA	013 020		031 042 073 081
	065 108 110 111	MITSUBISHI	013 020 045 046		101
	112 116 117 119		049 051 059 061	SHARP	031 054 149
DAYTRON	108		151	SHINTOM	024
DBX	012 023 039 043	MTC	034 040	SONY	003 009 031 052
DYNATECH	034 053	MULTITECH	024 034		056 057 058 076
ELECTROHOME	059	NEC	012 023 039 043		077 078 149
EMERSON	006 017 025 027		048	SOUNDESIGN	034
	029 031 034 035	NORDMENDE	043	SIS	013
	036 037 046 101 120 171 179 157		053 054	STLVANIA	051 053 054 059
FISHER		FAINASONIC	133 140 145	SYMPHONIC	034
FUNAL	034			TANDY	010 034
GE	031 033 063 072	PENTAX	013 020 031 033	TATUNG	039 043
	107 109 144 147		063	TEAC	034 039 043
GO VIDEO	132 136	PHILCO	031 034 067	TECHNICS	031 033 070
HARMAN KARDON	012 045	PHILIPS	031 033 034 054	TEKNIKA	019 031 033 034
HITACHI	004 018 026 034		067 071 101		101
	043 063 137 150	PILOT	101	THOMAS	034
INSTANTREPLAY	031 033	PIONEER	013 021 048	ТМК	006
JCL	031 033	PORTLAND	108	TOSHIBA	008 013 042 047
JCPENNY	012 013 015 033	PULSAR	0/2	τοτενίειοΝ	059 082 112 131
	040 066 101	QUARTZ	011 014		040 101
IVC	045	RCA	013 020 073 034	VECTOR RESEARCH	040
),,,	048 050 055 060	NCA .	040 041 062 063	VICTOR	048
	130 150 152		107 109 140 144	VIDEO CONCEPTS	012 034 046
KENWOOD	014 034 039 043		145 147	VIDEOSONIC	040
	047 048	REALISTIC	003 008 010 014	WARDS	003 013 017 024
LG (GOLDSTAR)	001 012 013 020		031 033 034 040		031 033 034 040
	101 106 114 123		053 054 101		053 054 131
LLOYD	034	RICO	058	YAMAHA	012 034 039 043
LXI	003 009 013 014	RUNCO	148	ZENITH	034 048 056
	017 034 101 106	SALORA	014		058 072 080 101
MAGIN	040				

APPENDIX

APPENDIX

TROUBLESHOOTING CHECKLIST

The operation does not work normally.				
The remote control doesn't work	 Check to see if there is any object between the product and the remote control causing obstruction. 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 slow- Iy after switching on This is normal, the image is muted during the product startup process. For a start of the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five minimum and the picture has not appeared after five					
No or poor color or poor picture	 Adjust Color in menu option. Keep a sufficient distance between the product and the VCR. Try another channel. The problem may be with the broadcast. Are the video cables installed properly? Activate any function to restore the brightness of the picture. 				
Horizontal/vertical bars or picture shaking	Check for local interference such as an electrical appliance or power tool.				
Poor reception on some channels	 Station or cable product experiencing problems, tune to another station. 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 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.			
Screen color is unstable or single color	Check the signal cable.Reinstall the PC video card.			

APPENDIX

2

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

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.

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

A CAUTION

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

PRODUCT SPECIFICATIONS

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

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

PRODUCT SPECIFICATIONS

MODE	LS	42PC1R/42PC1RV/42PC1RVH (42PC1R/42PC1RV/42PC1RVH-MJ)		
Dimensions	including stand	44.4 x 29.5 x 15.0 inches 1129.0 x 748.5 x 380.0 mm		
(Width x Height x Depth)	excluding stand	44.4 x 27.4 x 4.1 inches 1129.0 x 695.0 x 103.7 mm		
Weight including stand excluding stand		61.1 pounds / 27.7 kg 53.4 pounds / 24.2 kg		
Power requirement Television System Program Coverage External Antenna Impedance		AC100-240V -50/60Hz, 3A, 260W NTSC, PAL-M/N VHF 2 ~ 13, UHF 14 ~ 69, CATV 1 ~ 125 75 ohm		
Environment condition	Operating Temperature Operating Humidity	32 ~ 104°F (0 ~ 40°C) Less than 80%		
	Storage Temperature Storage Humidity	-4 ~ 140°F (-20 ~ 60°C) Less than 85%		

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

MODE	ELS	42PC7R/42PC7RH (42PC7R/42PC7RH-MA)		
Dimensions	including stand	47.9 x 27.6 x 11.3 inches 1216.0 x 701.0 x 286.5 mm		
(Width x Height x Depth)	excluding stand	47.9 x 25.6 x 3.3 inches 1216.0 x 649.0 x 85.0 mm		
Weight including stand excluding stand		67.2 pounds / 30.5 kg 60.8 pounds / 27.6 kg		
Power requirement Television System Program Coverage External Antenna Impedance		AC100-240V -50/60Hz, 3A, 310W NTSC, PAL-M/N VHF 2 ~ 13, UHF 14 ~ 69, CATV 1 ~ 125 75 ohm		
Environment condition	Operating Temperature Operating Humidity	32 ~ 104°F (0 ~ 40°C) Less than 80%		
	Storage Temperature Storage Humidity	-4 ~ 140°F (-20 ~ 60°C) Less than 85%		

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

APPENDIX