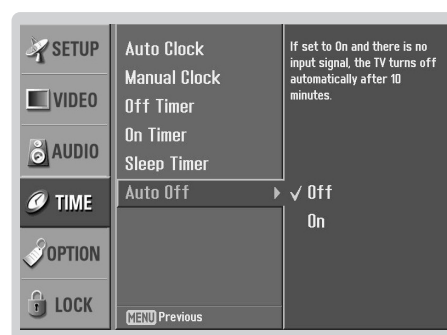


### Sleep Timer

- 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. When the **Off** option appears on the screen, highlight one of the following sleep timer options by using the navigation : 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 **ENTER** 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**.

### Auto Off

- If set to on and there is no input signal, the TV turns off automatically after 10 minutes.
1. Press the **MENU** button and then use **▲ / ▼** button to select the **TIME** menu.
  2. Press the **▶** button and then use **▲ / ▼** button to select **Auto Off**.
  3. Press the **▶** button and then use **▲ / ▼** button to select **On** or **Off**.
  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

- 0- 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(480p/720p/1080i)/RGB-DTV (480p/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.
  - **Note:** If a fixed image is displayed on the screen for a long time, the image may become imprinted on the screen and remain visible.
1. Press the **RATIO** button repeatedly to select the desired picture format. You can also adjust **Aspect Ratio** in the **OPTION** menu.

#### • Set By Program

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

#### • 4:3

Choose **4:3** when you want to view a picture with an original 4:3 aspect ratio, 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 spectacular 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 vertically extended and cropped. The picture taking a halfway trade off between alteration and screen coverage.

#### • Cinema Zoom

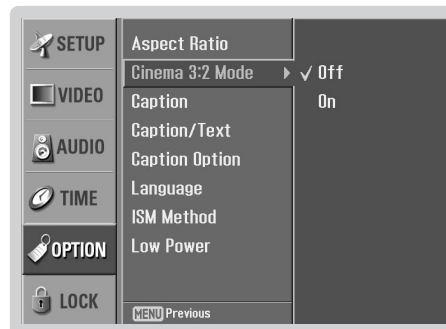
Choose **Cinema Zoom** when you want to enlarge the picture in correct proportion. **Note:** When enlarging or reducing the picture size, the image may become distorted.

You can adjust the enlarge proportion of Cinema Zoom using ▲ / ▼ button. The adjustment range is 1~16.

### Cinema 3:2 Mode Setup

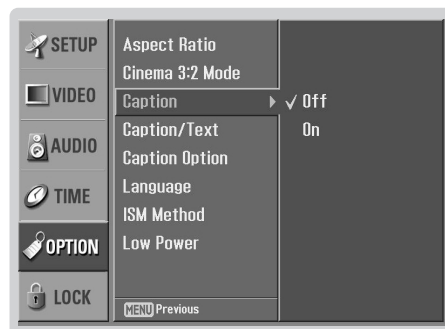
- Most movies are 24 frames/sec, but TV signal is 30 frames/sec. This option lets the TV do 3:2 pull-down operation for you to watch movies at the best motion appearance.
1. Press the **MENU** button and then use ▲ / ▼ button to select the **OPTION** menu.
  2. Press the ► button and then use ▲ / ▼ button to select **Cinema 3:2 Mode**.
  3. Press the ► button and then use ▲ / ▼ button to select **On** or **Off**.
  4. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.

**Note:** This feature operates only in Component 480i, S-Video, Video mode.



### Caption

1. Press the **MENU** button and then use **▲ / ▼** button to select the **OPTION** menu.
2. Press the **▶** button and then use **▲ / ▼** button to select **Caption**.
3. Press the **▶** button and then use **▲ / ▼** button to select **On** or **Off**.
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

- Select a caption mode for displaying captioning information if being provided on a program.
  - Analog caption displays information at any position on the screen.
  - Text displays information, usually at the bottom position and is used for a data service.
  - Caption/Text, if being provided by the broadcaster, would be available for both digital and analog channels on the Antenna/Cable.
  - This TV is programmed to memorize the caption/text mode which was last set to, when you turn the power off.
1. Use the **CC** button repeatedly to select Caption **CC1**, **CC2**, **CC3**, **CC4**, **Text1**, **Text2**, **Text3**, or **Text4**.
  2. Press **EXIT** button to save and return to TV viewing.

• You can also use the **OPTION** menu to select **Caption/Text**.

1. Press the **MENU** button and then use **▲ / ▼** button to select the **OPTION** menu.
2. Press the **▶** button and then use **▲ / ▼** button to select **Caption/Text**.
3. Press the **▶** button and then use **▲ / ▼** button to select caption: **CC1**, **CC2**, **CC3**, **CC4**, **Text1**, **Text2**, **Text3**, or **Text4**.

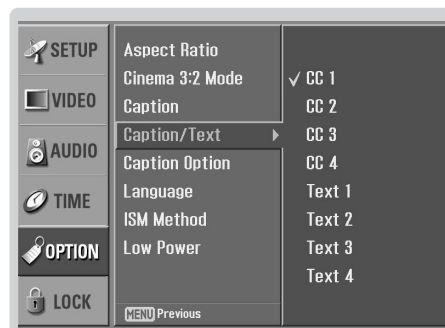
#### • CAPTION

The term for the words that scroll across the bottom of the TV screen; usually the audio portion of the program is 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 are 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.
- 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 **▶** button and then use **▲ / ▼** 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.

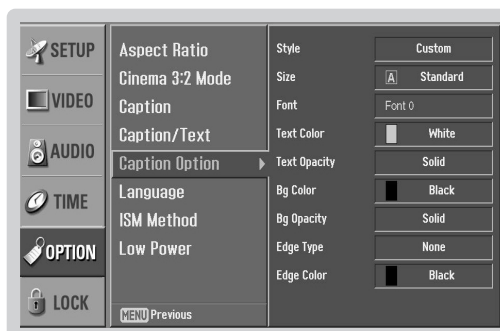


## Option Menu Features

### Caption Option

- Customize the DTV/CADTV captions that appear on your screen.

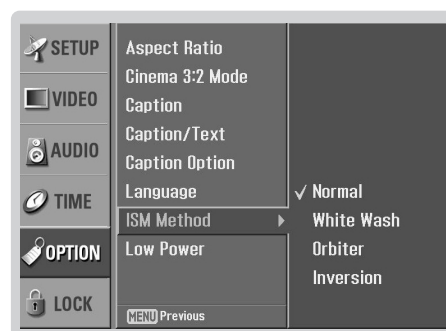
1. Press the **MENU** button and then use **▲ / ▼** button to select the **OPTION** menu.
2. Press the **▶** button and then use **▲ / ▼** button to select **Caption Option**.
3. Press the **▶** button and then use **◀ / ▶** button to select **Custom**.
4. Use **▲ / ▼** button to customize the Style, 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 of the words.
  - **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.
5. Press **EXIT** button to return to TV viewing or press **MENU** button to return to the previous menu.



### ISM (Image Sticking Minimization) Method

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

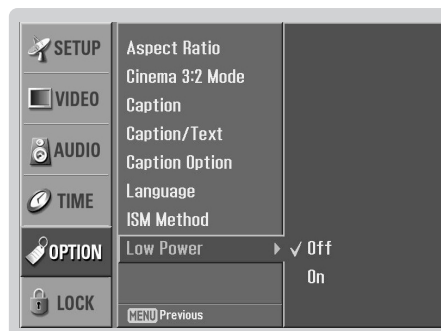
1. Press the **MENU** button and then use **▲ / ▼** button to select the **OPTION** menu.
2. Press the **▶** button and then use **▲ / ▼** button to select **ISM Method**.
3. Press the **▶** button and then use **▲ / ▼** button to select either **Normal**, **White Wash**, **Orbiter** or **Inversion**.
  - **Normal**  
If image sticking is never a problem, ISM is not necessary - set to Normal.
  - **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 → Right → Upside → Downside → Right → Left → Downside → 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.



## Low Power

- Low power reduces the plasma display power consumption.

1. Press the **MENU** button and then use ▲ / ▼ button to select the **OPTION** menu.
2. Press the ► button and then use ▲ / ▼ button to select **Low Power**.
3. Press the ► button and then use ▲ / ▼ button to select **On** or **Off**.
  - When you select **On**, the screen darkens.
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 choosing the type of the program and the categories. 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.

### 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-14 (Parents strongly cautioned)
- TV-MA (Mature audience only)
- TV-Y (All children)
- TV-Y7 (Children 7 years older)

#### TV Rating Children:

- Age (applies to TV-Y, TV-Y7)
- Fantasy Violence (applies to TV-Y7)

#### TV Rating General:

- Age (applies to TV-G, TV-PG, TV-14, TV-MA)
- Dialogue - sexual dialogue (applies to TV-PG, TV-14)
- Language - adult language (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)

#### Input Block

- AV1, AV2 (On, Off)
- Component (On, Off)
- RGB1, RGB2, HDMI1, HDMI2 (On, Off)

## Parental Lock Setup

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

1. Press the **MENU** button and then use **▲** / **▼** button to select the **LOCK** menu. Then, press the **▶** button

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

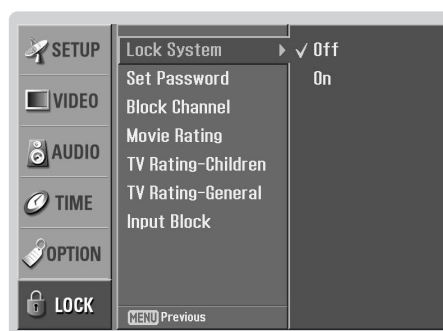
2. Use the **▲** / **▼** button to choose from the following Lock Menu options. Once the option is selected, change the settings to your preference.

- **Lock System:** Enables or disables the blocking scheme you set up previously.
- **Set Password:** Change the password by inputting a new password twice.
- **Block Channel:** Blocks any channels that you do not want to watch or that you do not want your children to watch.
- **Movie Rating (MPAA):** 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.
- **Input Block:** Enables you to select a source to block from the external source devices you have hooked up.

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

### Note:

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



# Remote Control

## EPG (Electronic Program Guide) (In DTV mode)

- This system has an Electronic Program Guide (EPG) to help you 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 7 days.
- This function is only supported in DTV mode.



1. Press the **GUIDE** button to switch on EPG.
2. Press the **▲ / ▼ / ◀ / ▶** 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.



## Brief Info.

- Brief Info shows the present screen information.
- Press the **INFO** button to show the Brief Info on the screen.
- **INFO** button does not work in Component1, Component2, RGB, and HDMI/DVI modes.
- Press the **INFO** button or **EXIT** button to exit.

- Operation:
- Watching TV/DTV/CATV/CADTV
  - Watching AV1, Front Video
  - In Component1, Component2, RGB, HDMI/DVI modes, **INFO** button is not working.

- Function:
- Show the present screen information.
  - On Watching with the upper Input signal, press the **INFO** button.
  - Press the **INFO** button or **EXIT** button to exit.

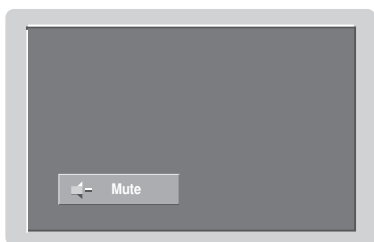
- A: Banner information  
 B: Program title  
 C: Day of week, Month, Year  
 D: Program start time  
 E: Program progress bar  
 F: Program finish time  
 G: Present time  
 H: Additional information. Refer to the icon explanation on the right.

	The original aspect ratio of the video is 4:3
	The original aspect ratio of the video is 16:9(wide)
480i	The video resolution is 720x480i
480p	The video resolution is 720x480p
720p	The video resolution is 1280x720p
1080i	The video resolution is 1920x1080i
	Multilingual : The program contains two or more audio services. Press the <b>SAP</b> button to select wanted Audio.
	Caption: => The program contains one or more caption services. Press the <b>CC</b> button to select wanted Closed caption.
	The program contains V-Chip information. Refer to the <LOCK Menu>. D (Dialogue), L (Language), S (Sex), V (Violence), FV (Fantasy Violence)



## Mute

- When you repeatedly press the **MUTE** button, the sound mode is changed in turn. (Refer to the picture below)



**Mute** : Sound is muted.



**Mute Off** : Sound is enabled.

## Freeze

- Freezes the currently-viewed picture.

1. Press the **FREEZE** button to freeze the screen section.
2. To return to normal viewing, press the **FREEZE** button again.

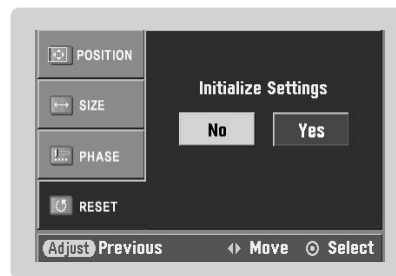
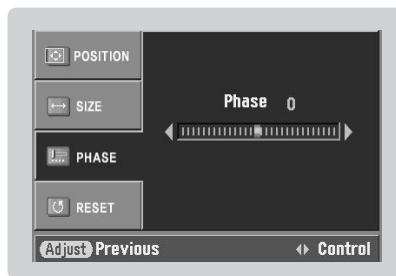
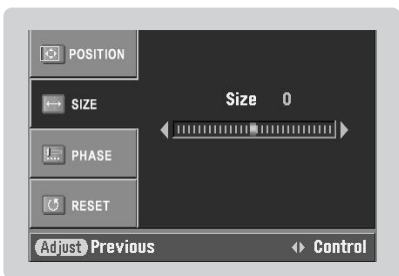
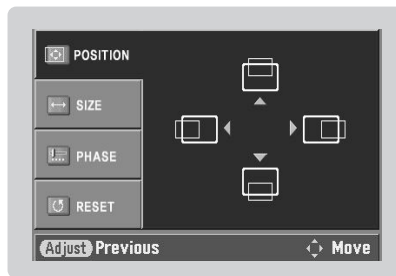
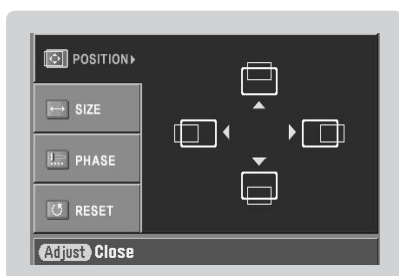
## Screen Setup for PC mode

### Operation

- 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.

### Adjustment for screen Position, Size, Phase, Reset

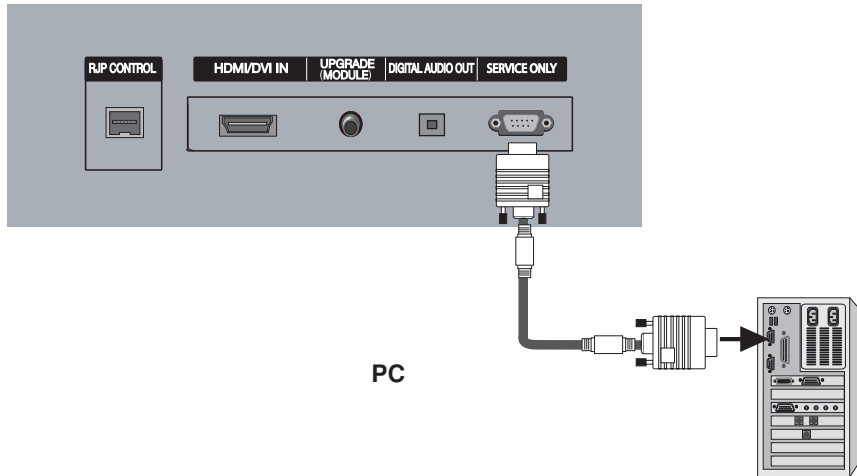
- After connecting RGB-PC or HDMI/DVI to PC input and checking the screen quality.
  - Display PC Adjust Menu using **ADJUST** button.
  - Position : Adjust the screen position. After displaying the Adjust, select the screen position.
  - Size : Adjust the screen size.
  - Phase : Adjust the phase of Pixel clock.  
In HDMI/DVI-PC mode, PHASE is not available.
  - Reset : Initializing Position, Size, Phase adjustment .



# External Control Device Setup

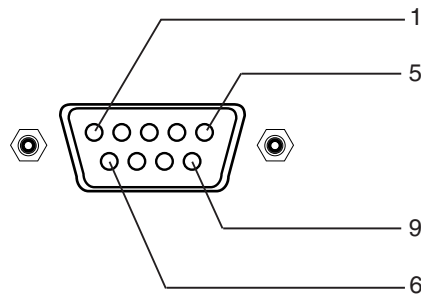
- Connect the RS-232C input jack to an external control device (such as a computer or an A/V control system) and control the Monitor's functions externally.
- Connect the serial port of the control device to the RS-232C jack on the Monitor back panel.
- RS-232C connection cables are not supplied with the Monitor.

## RS-232C Setup

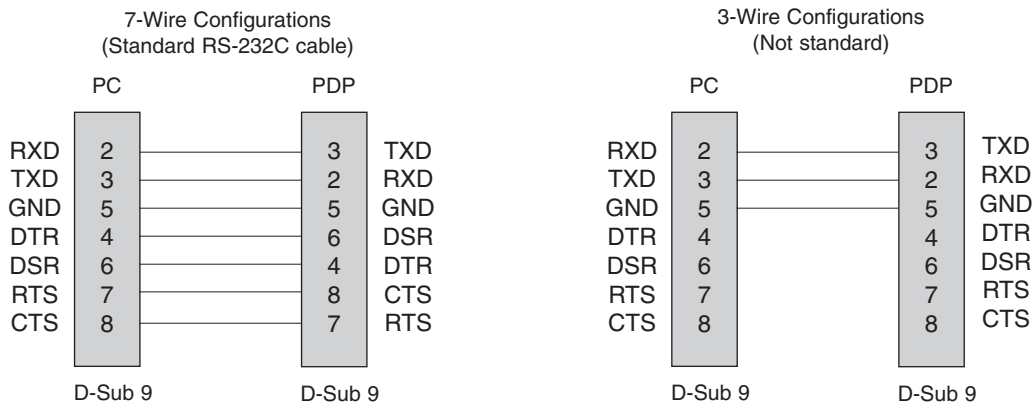


## Type of Connector; D-Sub 9-Pin Male

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



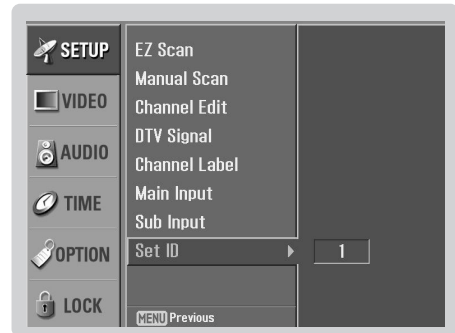
## RS-232C Configurations



## Set ID

Use this function to specify a monitor ID number.  
Refer to 'Real Data Mapping'. See page 44.

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**.
3. 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.
4. 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

	COMMAND 1	COMMAND 2	DATA (Hexadecimal)
01. Power	k	a	0 ~ 1
02. Input Select	k	b	0 ~ 8
03. Aspect Ratio	k	c	*(Refer to p.44)
04. Screen Mute	k	d	0 ~ 1
05. Volume Mute	k	e	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	l	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	p	*(Refer to p.46)
19. Low Power	j	q	0 ~ 1
20. Orbiter Time Setting	j	r	1 ~ FE
21. Orbiter Pixel Setting	j	s	1 ~ 3

\* This data will be explained in this document in detail.

	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	a	physical/program high	major/program low	major low	minor high	minor low	attribute
23. Channel Add/Del	m	b	00 ~ 01					
24. Key	m	c	key code					
25. Input Select	x	b	*(Refer to p.47)					

## 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



**09. Color (Command2:i)**

- ▶ To adjust the screen color.  
You can also adjust color in the Video menu.

Transmission

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

Data Min : 0 ~ Max : 64

- Refer to 'Real data mapping'. See page 44.

Acknowledgement

[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]

Data Red : 0 ~ Green : 64

- Refer to 'Real data mapping'. See page 44.

Acknowledgement

[j][ ][Set ID][ ][OK][Data][x]

**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 44.

Acknowledgement

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

**12. OSD Select (Command2:l)**

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

Transmission

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

Data 0: OSD off                      1: OSD on

Acknowledgement

[l][ ][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.

Transmission

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

Data Min: 0 ~ Max: 64

- Refer to 'Real data mapping'. See page 44.

Acknowledgement

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

**15. Bass (Command2:s)**

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

Transmission

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

Data Min: 0 ~ Max: 64

- Refer to 'Real data mapping'. See page 44.

Acknowledgement

[s][ ][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 44.

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]

**18. ISM Method (Command2:p)**

- ▶ To avoid having a fixed image remain on screen.

*Transmission*

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

Data 1: Inversion  
2: Orbiter  
4: White Wash  
8: Normal

*Acknowledgement*

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

**19. Low Power (Command2:q)**

- ▶ To control the Low Power function on/off.  
You can also adjust Low Power in Option menu.

*Transmission*

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

Data 0: Low Power off  
1: Low Power on

*Acknowledgement*

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

**20. Orbiter Time Setting (Command2:r)**

- ▶ To adjust orbiter operation time term.

*Transmission*

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

Data Min: 1 ~ Max: FE

*Acknowledgement*

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

**21. Orbiter Pixel Setting (Command2:s)**

- ▶ To adjust pixel number in orbiter function.

*Transmission*

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

Data Min: 1 ~ Max: 3

*Acknowledgement*

[s][ ][Set ID][ ][OK][Data][x]

**22. Tune Command (Command: m a)**

- ▶ To tune channel to following physical/major/minor number

*Transmission*

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

Data 0: Physical Channel Number(Transmit by Hexadecimal code)

NTSC air:02~45  
NTSC cable: 01, 0E~7D  
ATSC air:01~45  
ATSC cable:01~87

Data 1,Data 2: Major Channel Number(two part) or Channel Number(One part)

Data1: High byte  
Data2: Low byte  
Two part channel number: Major number-Minor number  
One part channel number: If the channel band is ATSC digital cable, it can be used. In case of using one part channel number, minor channel does not need.

Data 3, Data 4: Minor Channel Number Data3: High byte Data4: Low byte

Data 5:

7	Main Picture	6	Two/One Part Channel	5	Using Physical Channel	4	Reserv ed	3	2	1	0	Step
0	Main	0	Two	0	Use	x	0	0	0	0	0	NTSC Air
1		1	One	1	No Use	x	0	0	0	0	1	NTSC Cable
						x	0	0	1	0	0	ATSC Air
						x	0	0	1	1	0	ATSC Cable_std
						x	0	1	0	0	0	ATSC Cable_irc
						x	0	1	0	1	0	ATSC Cable_irc
						x	0	1	1	0	0	ATSC cable_auto
						x	0	1	1	1	0	Reserved
						x	x	x	x	x	x	...
						x	1	1	1	1	1	Reserved



\* All data are transmitted by Hexadecimal code

**\*Two/One part Channel: 6th bit**

This bit is used in a cable-ready system.

**\*Using physical channel: 5th bit**

If the channel band is NTSC air or NTSC cable, channel tuning can be done by only physical channel. In this case, using physical channel bit must be low(0).

But if the channel band is ATSC air or ATSC cable, there are two cases that physical channel enable or disable.

If the physical channel sending is meaningful, you should set this bit low(0). If the physical channel sending is meaningless, you should set this bit high(1).

Example)

1. Analog channel: NTSC cable, channel number(35), main picture Command: ma 00 23 xx xx xx xx 01 attribute(0x01): main picture, two part(it's not mandatory), using physical channel, NTSC cable 'xx' data: don't care major and minor channel number in case analog channel tuning.

2. Digital channel: ATSC air, channel number(don't know physical channel, major(30), minor(3)), main picture Command: ma 00 xx 00 1E 00 03 22 attribute(0x22): main picture, two part, not using physical channel, ATSC air 'xx' data: don't care analog channel number in case digital channel tuning.

3. Digital channel: ATSC air, channel number(physical(20),major(30), minor(5)), main picture Command: ma 00 14 00 1E 00 05 02 attribute(0x02): main picture, two part, using physical channel, ATSC air.

Acknowledgement

```
[a][ ][Set ID][ ][OK][Data0][Data1][Data2][Data3][Data4][Data5][x]
[a][ ][Set ID][ ][NG][Data0][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

Transmission

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

Data Key code: Refer to page 49.

Acknowledgement

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

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

► To select input source for TV.

Transmission

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

Data Structure

DATA(Hex)	INPUT
00	DTV (Antenna)
01	DTV (Cable)
10	Analog (Antenna)
11	Analog (Cable)
20	Video
21	Front Video
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

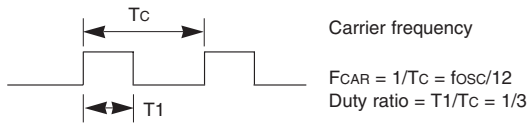
## How to Connect

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

## Remote Control IR Codes

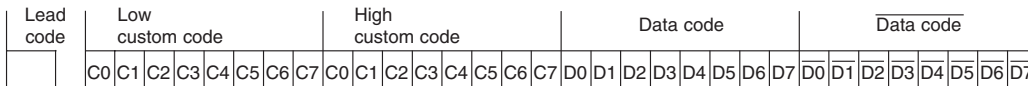
### ▶ Output waveform

Single pulse, modulated with 37.917KHz signal at 455KHz

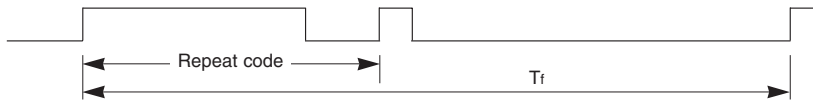


### ▶ Configuration of frame

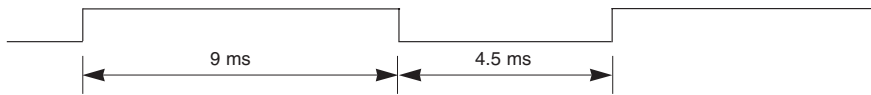
- 1st frame



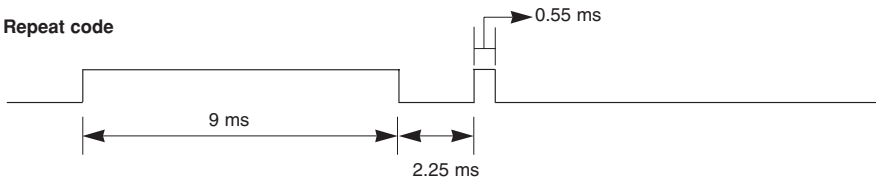
- Repeat frame



### ▶ Lead code



### ▶ Repeat code

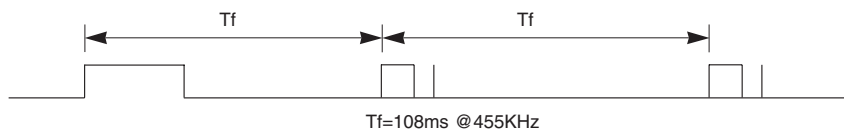


### ▶ Bit description



### ▶ Frame interval : Tf

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



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 ▼	R/C Button
1E	FAV	R/C Button
AA	INFO	R/C Button
39	CC	R/C Button
40	▲	R/C Button
41	▼	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	VIDEO	Discrete IR Code (Video Input Selection)
D0	Front Video	Discrete IR Code (Front Video 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 (HDMI/DVI Input Selection)
76	Ratio 4:3	Discrete IR Code (Only 4:3 Mode)
77	Ratio 16:9	Discrete IR Code (Only 16:9 Mode)
AF	Ratio Zoom	Discrete IR Code (Only Zoom1 Mode)
98	MULTIMEDIA	Discrete IR Code (Multimedia Selection)

## 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

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

# 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	TMK	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		
	132 136		048		101		
GO VIDEO	012 045	NORDMENDE	043	SHARP	031 054 149		
HARMAN KARDON	004 018 026 034	OPTONICA	053 054	SHINTOM	024		
HITACHI	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		

## CATV

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		

Programming Codes

HDSTB

Brand	Codes	Brand	Codes	Brand	Codes	Brand	Codes
ALPHASTAR DSR	123	GENERAL INSTRUMENT	133 134	PACE SKY SATELLITE	143		088 090 107 130
AMPLICA	050		003 004 016 029	PANASONIC	060 142	TOSHIBA	137
BIRDVIEW	051 126 129	HITACHI	031 059 101	PANSAT	121	UNIDEN	002 127
CHANNEL MASTER	013 014 015 018	HOUSTON TRACKER	139 140	PERSONAL CABLE	117		016 025 042 043
	036 055		033 037 039 051	PHILIPS	071		044 045 048 049
CHAPARRAL	008 009 012 077		057 104	PICO	105		078 079 080 086
CITOH	054	HUGHES	068	PRESIDENT	019 102	VIEWSTAR	101 135 136
CURTIS MATHES	050 145	JANIEL	060 147	PRIMESTAR	030 110 111		115
DRAKE	005 006 007 010	JERROLD	061	PROSAT	072	WINEGARD	128 146
	011 052 112 116	KATHREIN	108	RCA	066 106	ZENITH	081 082 083 084
	141	LEGEND	057	REALISTIC	043 074		091 120
DX ANTENNA	024 046 056 076	LG	001	SAMSUNG	123		
ECHOSTAR	038 040 057 058	LUTRON	132	SATELLITE SERVICE CO	028 035 047 057		
	093 094 095 096	LUXOR	062 144		085		
	097 098 099 100	MACOM	010 059 063 064	SCIENTIFIC ATLANTA	032 138		
	122		065	SONY	103		
ELECTRO HOME	089	MEMOREX	057	STARCAST	041		
EUROPLUS	114	NEXTWAVE	028 124 125	SUPER GUIDE	020 124 125		
FUJITSU	017 021 022 027	NORSAT	069 070	TEECOM	023 026 075 087		

Audio

Brand	Codes	Brand	Codes	Brand	Codes	Brand	Codes
AIWA	014 028 070 096	JVC	004 013 141	PHILIPS	026 112 143		147 218
	125 129 139 229	KEC	185 186 187	PIONEER	039 042 043 063	TOSHIBA	137
	230	KENWOOD	038 050 067 089		065 091 093 094	THE	061
AKAI	163		170 171 197 206	QUASAR	115 123 127 250	VICTOR	088 131
ANAM	003 014 017 023		215 222	RCA	113	WARDS	089
	059 106 189 216	KOHEL	030	RCX	080	YAMAHA	054 055 066 092
	217 235 236	NAD	045 046	REALISTIC	092		199
BURMECTER	252	LOTTE	014 016 036 098	SAMSUNG	103 106		
CARVER	086		100 172 173 174		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	SHERWOOD	206 209		
	190 191 192 210		097 112	SONY	005 006 158		
	211 212 239	MCINTOSH	049		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				

DVD

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

# Troubleshooting Checklist

<p><b>No picture &amp; No sound</b></p>	<ul style="list-style-type: none"> <li>• Check whether the TV is turned on.</li> <li>• Is the power cord inserted into wall power outlet?</li> <li>• Test the wall power outlet, plug another product's power cord into the outlet where the TV's power cord was plugged in.</li> </ul>
<p><b>Picture OK &amp; No sound</b></p>	<ul style="list-style-type: none"> <li>• Press the <b>VOLUME</b> (▲ / ▼) button.</li> <li>• Sound muted? Press <b>MUTE</b> button.</li> </ul>
<p><b>The remote control doesn't work</b></p>	<ul style="list-style-type: none"> <li>• Check to see if there is any object between the TV and the remote control causing obstruction.</li> <li>• Are batteries installed with correct polarity (+ to +, - to -)? (Refer to p.9)</li> <li>• Correct remote operating mode set: TV, VCR etc.?</li> <li>• Install new batteries. (Refer to p.9)</li> </ul>
<p><b>Picture appears slowly after switching on</b></p>	<ul style="list-style-type: none"> <li>• This is normal, the image is muted during the TV startup process. Please contact your service center, if the picture has not appeared after five minutes.</li> </ul>
<p><b>No or poor color or poor picture</b></p>	<ul style="list-style-type: none"> <li>• Select <b>Color</b> in the <b>Video</b> menu and press the ► button. (Refer to p.26)</li> <li>• Keep a sufficient distance between the TV and the VCR.</li> <li>• Activate any function to restore the brightness of the picture. (If still picture is on the screen for more than 5 minutes, the screen gets dark.)</li> </ul>
<p><b>Horizontal/vertical bars or picture shaking</b></p>	<ul style="list-style-type: none"> <li>• Check for local interference such as an electrical appliance or power tool.</li> </ul>
<p><b>No output from one of the speakers</b></p>	<ul style="list-style-type: none"> <li>• Adjust <b>Balance</b> in the <b>AUDIO</b> menu. (Refer to p.27)</li> </ul>
<p><b>Unusual sound from inside the TV</b></p>	<ul style="list-style-type: none"> <li>• A change in ambient humidity or temperature may result in an unusual noise when the plasma display is turned on or off and does not indicate a fault with the TV.</li> </ul>

# 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

MODELS	42PX7DC-UA
Width (inches / mm)	47.6 / 1210
Height (inches / mm)	27.6 / 701
Depth (inches / mm)	11.6 / 295
Weight (pounds / kg)	79 / 35.9
Resolution	852 x 480 (Dot)
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, DTV 2 ~ 69, CADTV 1 ~ 135
External Antenna Impedance	75 $\Omega$
Operating Temperature Range	32 ~ 104°F (0 ~ 40°C)
Operating Humidity Range	Less than 80%

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

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# Notes



LG ELECTRONICS, INC.  
PLASMA TV — U.S. LIMITED WARRANTY

Your LG Plasma TV will be repaired or replaced in accordance with the terms of this warranty, at LGE's option, if it proves to be defective in material or workmanship under normal use, during the warranty period ("Warranty Period") listed below, effective from the date ("Date of Purchase") of original consumer purchase of the product. This warranty is good only to the original purchaser of the product and effective only when used in the United States, including Alaska, Hawaii, and U.S. Territories.

**WARRANTY PERIOD:**

**LABOR and PARTS: 2 YEARS** from the Date of Purchase. Your unit will be repaired or replaced with a new, substitute model or factory reconditioned unit, at LGE's option. If repaired, parts used in the repair may be new or remanufactured. Replacement Units and Repair Parts are warranted for the remaining portion of the original unit's warranty period.

**EFFECTIVE DATE OF WARRANTY:** Your warranty period begins on the date of sale to the original consumer/end user. KEEP THE DEALER'S DATED BILL OF SALE OR PROOF OF DELIVERY as evidence of the purchase date. You will be required to submit a legible copy of your bill of sale or proof of delivery when requesting warranty service.

**HOW SERVICE IS HANDLED:**

**In-Home Service:** Please retain dealer's dated bill of sale or delivery ticket as evidence of the Date of Purchase for proof of warranty, and submit a copy of the bill of sale to the service person at the time warranty service is provided.

**Please call 1-800-243-0000 to locate your nearest LGE Authorized Service Center.**

Visit our website at:  
**<http://www.lgservice.com>**

**THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT ANY IMPLIED WARRANTY IS REQUIRED BY LAW, IT IS LIMITED IN DURATION TO THE EXPRESS WARRANTY PERIOD ABOVE. NEITHER THE MANUFACTURER NOR ITS U.S. DISTRIBUTOR SHALL BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, OR PUNITIVE DAMAGES OF ANY NATURE, INCLUDING WITHOUT LIMITATION, LOST PROFITS, LOST OR CORRUPTED PROGRAMMING OR DATA, OR ANY OTHER DAMAGE WHETHER BASED IN CONTRACT, TORT, OR OTHERWISE.** Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above exclusion or limitation may not apply to you. This warranty gives you specific legal rights and you may also have other rights that vary from state to state.

**CONCERNING PIXEL FUNCTIONALITY:** Your Plasma TV contains about one million individual pixels. Plasma TV typically contain a small number of pixels that do not function normally. Your display has been inspected and is in compliance with manufacturer's specifications, indicating that any pixel defects do not effect the operation or use of your display.

**IMPORTANT:** Please fill out and mail in your Product Registration Card or go to [www.lgservice.com](http://www.lgservice.com) to register your product online. This information will allow us to reach you promptly should we discover a safety or reliability problem that could affect you.

**THIS LIMITED WARRANTY DOES NOT APPLY TO:**

<ul style="list-style-type: none"><li>● damage caused in shipping or transit</li><li>● service required as a result of improper installation, including incorrect or insufficient AC supply (please consult the owner's manual for power supply requirements)</li><li>● installation or repair of antenna systems, cable converters, cable company supplied equipment, or other components in a video system</li><li>● set-up or adjustment on consumer controls, or damage caused by improper adjustments</li><li>● damage caused by other system components</li><li>● any panel that has been modified or incorporated into any other product</li><li>● replacement of batteries on the remote control.</li><li>● damage (including cosmetic damage), failure, loss or personal injury due to misuse, abuse, negli-</li></ul>	<p>gence, improper maintenance or storage, or to acts of nature or other causes beyond our control. (Causes beyond our control include but are not limited to lightning strike, power surges, power outages and water damage.)</p> <ul style="list-style-type: none"><li>● image burn-in</li><li>● repair or replacement of warranted parts by other than LGE authorized service centers.</li><li>● units purchased or serviced outside of the coverage area.</li><li>● product where the original factory serial numbers have been removed, defaced or changed in any way.</li><li>● product sold and labeled as "as is, where is" or similar disclaimer.</li></ul>
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**The cost of repair or replacement under these excluded circumstances shall be borne by the consumer.**

**CUSTOMER INTERACTIVE CENTER NUMBERS:**

<p><b>To obtain customer assistance, product information or Dealer or Service locations</b></p>	<p><b>Call 1-800-243-0000</b> 24 hours a day, 365 days per year</p>
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**FOR SERVICE:**

**Before you call for warranty service, check your operating guide – you may avoid a service call.**

For warranty service information, please contact the LGE Customer Interactive Center telephone number.

When calling for service, **please have your product model number, serial number and the date of purchase or the date of original installation available.**

If a replacement unit is required, under some circumstances you may be asked to provide a reserve deposit to the LGE Service Center against a credit card number as surety for advanced shipment. Your credit card will not be charged if you return the defective unit within 10 working days.

If a replacement unit is received, please use the carton and packaging from that unit in returning the defective unit to the LG®Brand Service Center.

Parts and service in accordance with the LGE warranty are LGE's responsibility and will be provided without charge. Other service requirements will be at the owner's expense. If you have problems in obtaining satisfactory warranty service, write or call the LGE Customer Interactive Center. Service may be provided by independently owned and operated service organizations.

To assure proper credit and avoid unnecessary charges, you must obtain an LGE Return Authorization before returning any product to the LGE Service Center. Contact the Customer Interactive Center for details.

**TO CONTACT THE LGE CUSTOMER SERVICE CENTER BY MAIL:**

LGE Customer Interactive Center

P.O. Box 240007

201 James Record Road

Huntsville, Alabama 35824

<http://www.lgservice.com>

P/N : 38289U0558A