

LCD TV

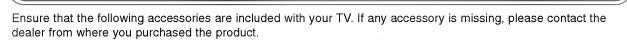
OWNER'S MANUAL MODEL: 32LB1R** 37LB1R** 42LB1R**



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

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

> P/NO : 38289U0023F(0607-REV02) Printed in Korea





Owner's Manual

Power Cord



Remote Control / Batteries



Twister Holder



Audio cable (PC)





2-Wall Bracket

2-TV Brackets



Cable Management



Polish the screen

with the cloth.

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

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

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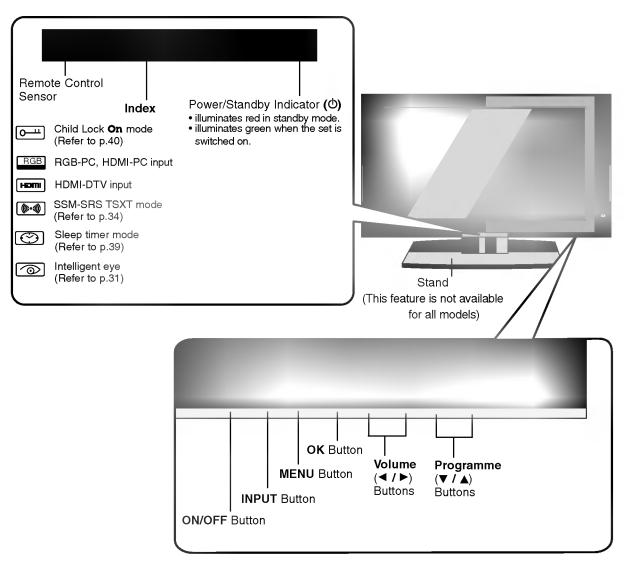
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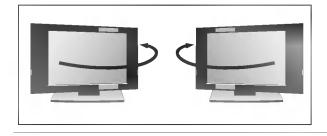
61 External Control Device Setup ; RS-232C

Introduction Controls

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



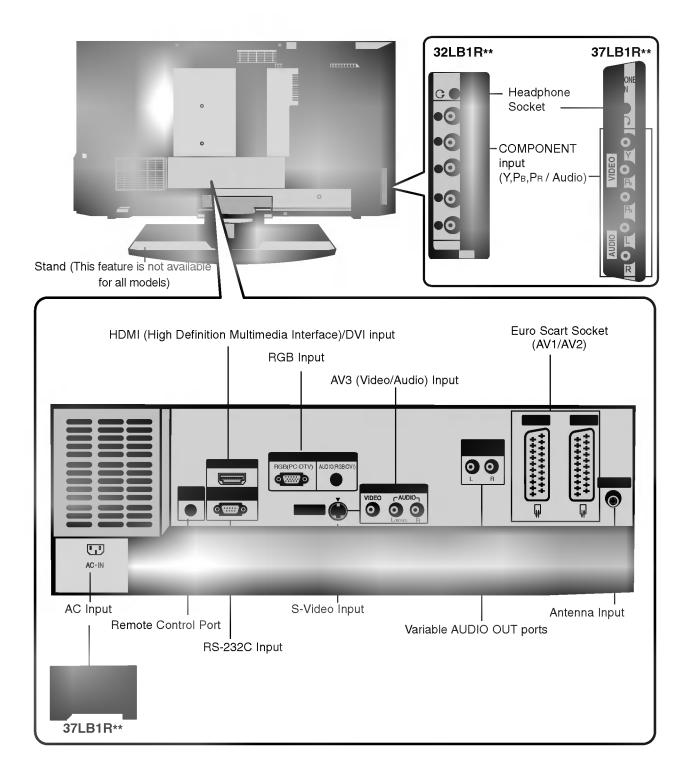
- This feature is not available for all models.



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

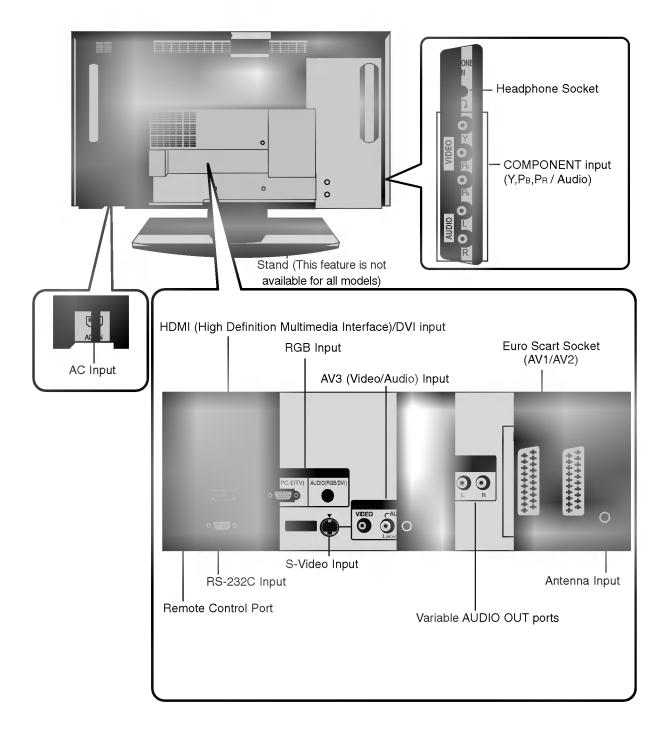
Introduction Connection Options (Model: 32LB1R**/37LB1R**)

- Here shown may be somewhat different from your TV.

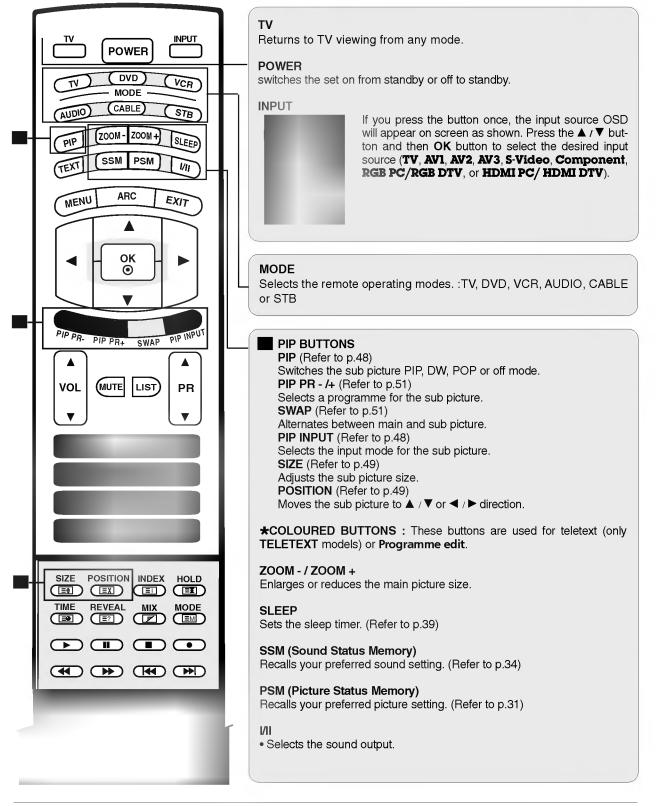


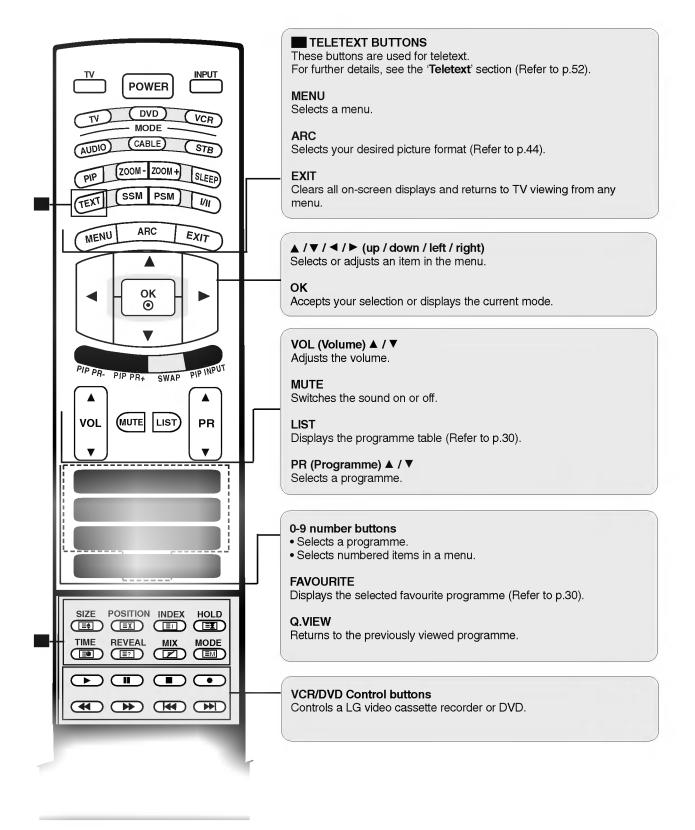
Connection Options (Model: 42LB1R)**

- Here shown may be somewhat different from your TV.

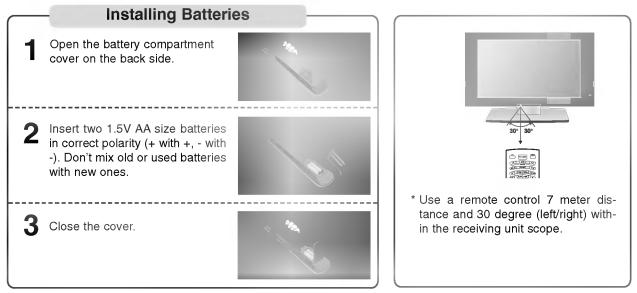


Introduction Remote Control Key Functions

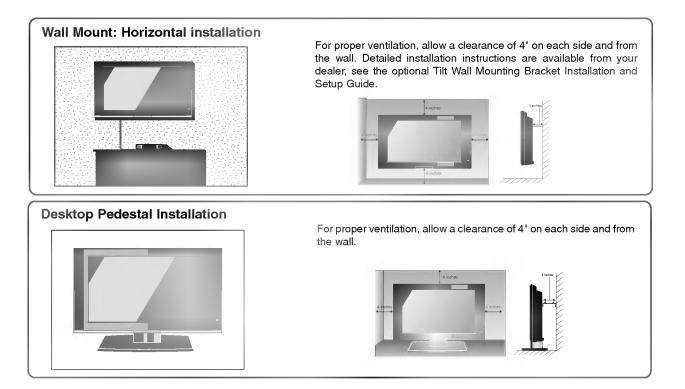




Introduction Remote Control Key Functions

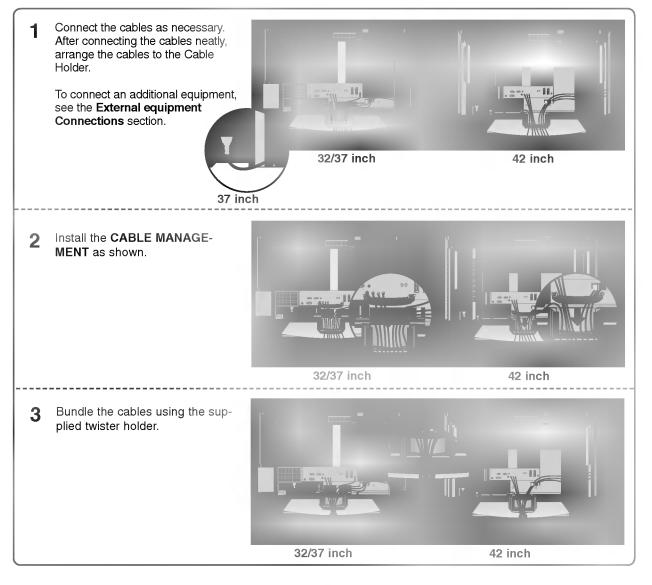


* Dispose of used batteries in the recycle bin to prevent environment.



Installation

Basic Connection



How to remove the CABLE MANAGEMENT

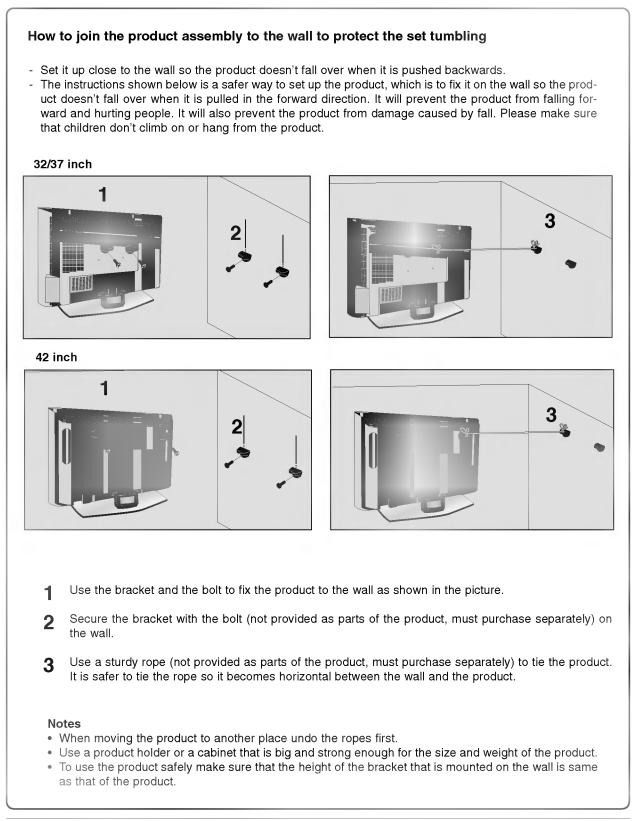
Hold the CABLE MANAGE-MENT with both hands and pull it backward.

EM

Do not hold the CABLE MANAGEMENT when moving the product.

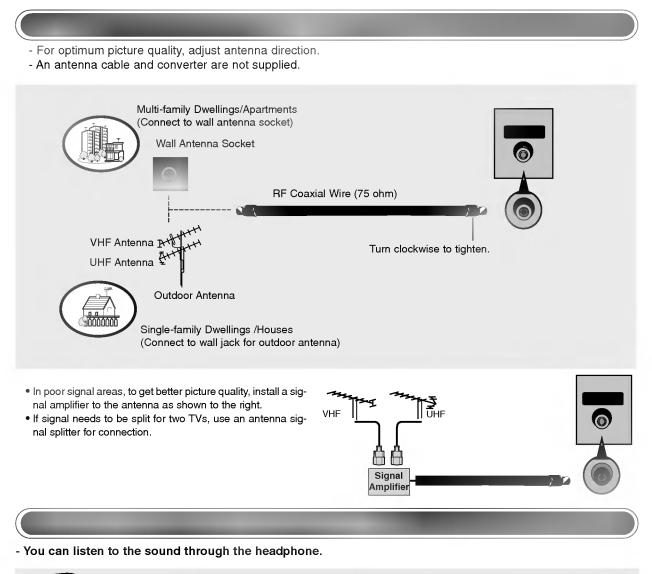
- If the product is dropped, you may be injured or the product may be broken.

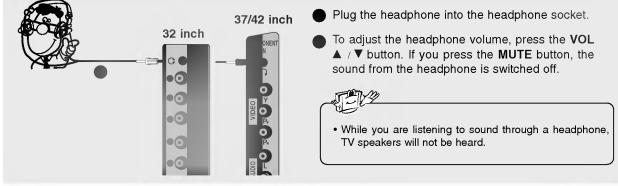
Installation



External Equipment Connections

To prevent the equipment damage, never plug in any power cords until you have finished connecting all equipment.

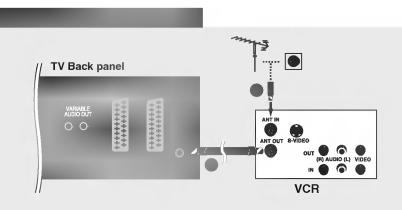




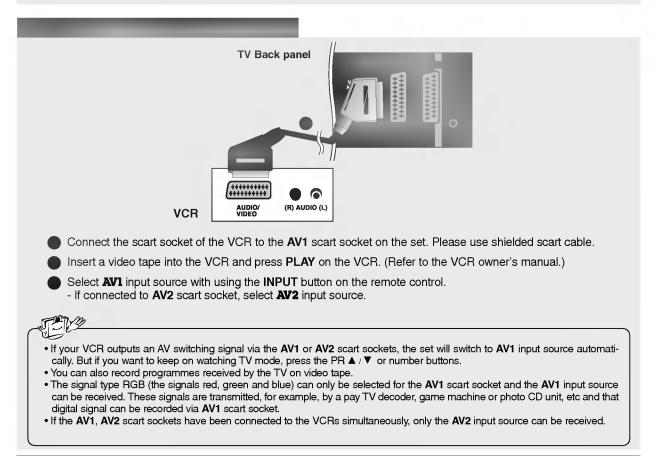
Installation Instruction

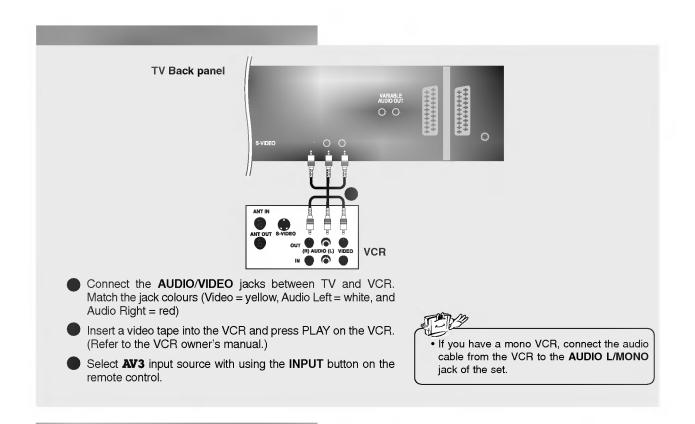
External Equipment Connections

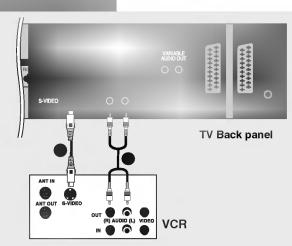
- To avoid picture noise (interference), leave an adequate distance between the VCR and TV.
- Typically a frozen still picture from a VCR. If the 4:3 picture format is used; the fixed images on the sides of the screen may remain visible on the screen.



- Connect the ANT OUT socket of the VCR to the Antenna socket on the set.
- Connect the antenna cable to the ANT IN socket of the VCR.
- Press the PLAY button on the VCR and match the appropriate programme between the TV and VCR for viewing.

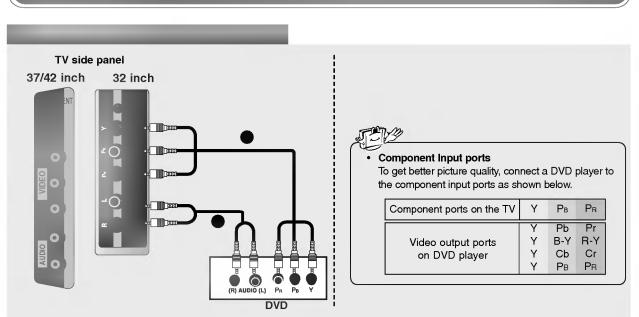




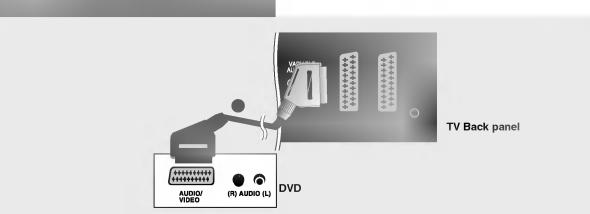


- Connect the S-VIDEO output of the VCR to the S-VIDEO input on the set. The picture quality is improved; compared to connecting a regular VCR to the Video input.
- Connect the AUDIO jacks between TV and VCR.
- Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
- Select **S-Video** input source with using the **INPUT** button on the remote control.

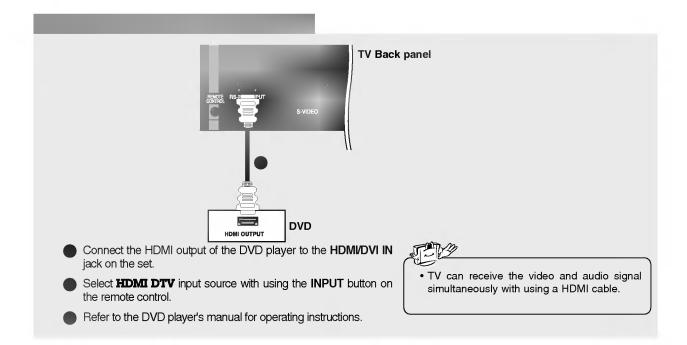
Installation External Equipment Connections



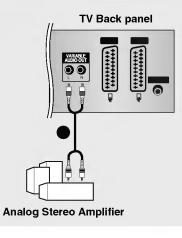
- Connect the video outputs (Y, PB, PR) of the DVD player to the COMPONENT VIDEO (Y, PB, PR) jacks on the set.
- Connect the audio outputs of the DVD player to the COMPONENT AUDIO jacks on the set.
- Turn on the DVD player, insert a DVD.
- Select Component input source with using the INPUT button on the remote control.
- Refer to the DVD player's manual for operating instructions.



- Connect the Euro scart socket of the DVD player to the AV1 Euro scart socket on the set. Please use shielded scart cable.
- Turn on the DVD player, insert a DVD.
- Select AVI input source with using the INPUT button on the remote control. - If connected to AV2 Euro scart socket, select AV2 input source.



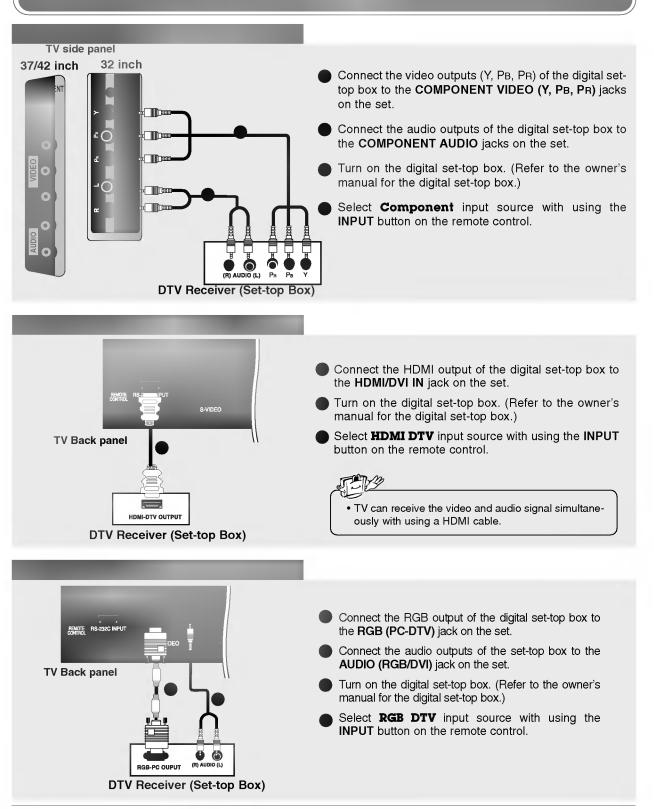
- Use to connected either an external amplifier, or add a sub-woofer to your surround sound system.

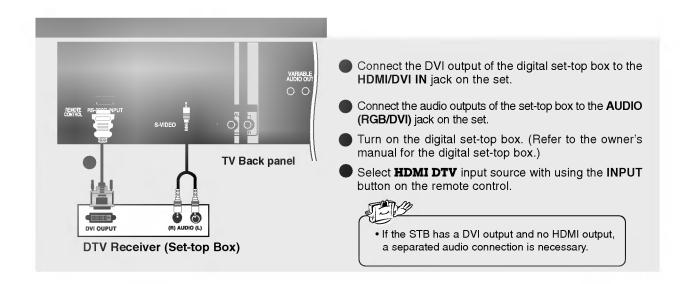


- Connect the input jack of the stereo's amplifier to the VARIABLE AUDIO OUT jacks on the set.
- Set up your speakers through your analog stereo amplifier, according to the instructions provided with the amplifier.
 - When connecting with external audio equipments, such as amplifiers or speakers, please turn the TV speakers off. (Refer to p.36)

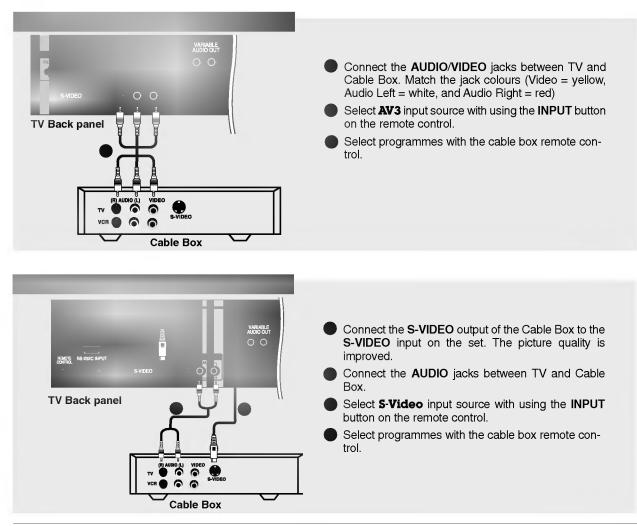
Installation

External Equipment Connections



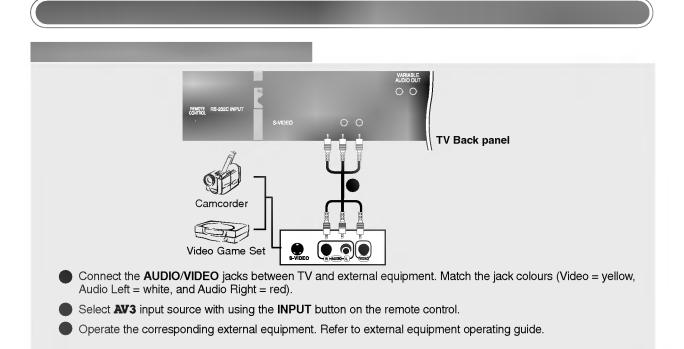


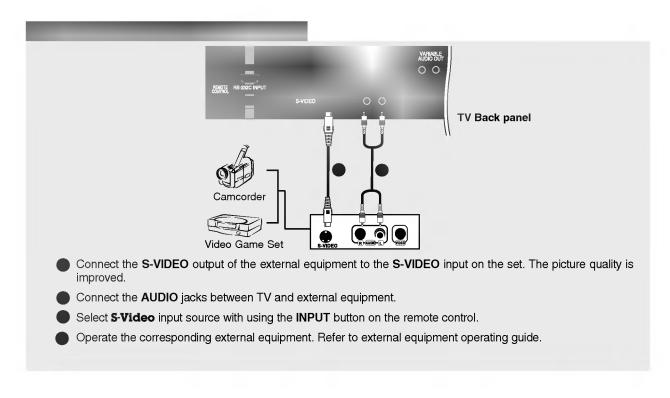
- After subscribing to a local cable TV service and installing a converter, you can watch cable TV programmes. - For further cable TV information, contact a local cable service provider.

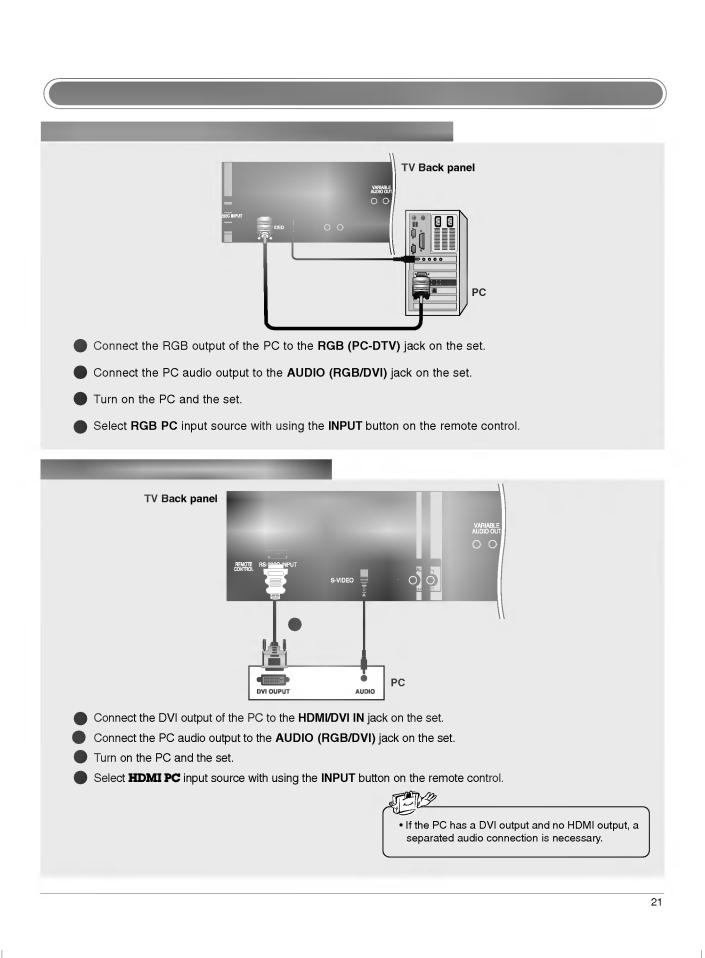


Installation

External Equipment Connections







Installation External Equipment Connections

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720 x 400	31.468	70
640 x 480	31.469 37.500	60 75
800 x 600	37.879 46.875	60 75
832 x 624	49.725	75
1024 x 768 (XGA)	48.363 56.470 60.123	60 70 75
1280 x 768 (WXGA)	47.776	60
1360 x 768 (WXGA)	47.720	60
1366 x 768 (WXGA)	47.720	60

PC (Monitor Display Specifications)

Note

- a. For optimum picture quality, use standard WXGA 1360x768 computer output at a 60Hz refresh rate. Using other formats (VGA, SVGA, etc.) or refresh rates may result in reduced picture quality. (To change the computer video output format, please refer to the operating manual for the computer you are using).
- b. If the message **No signal** or any picture distortions appears on the screen, adjust the PC output to a format listed in the **Monitor Display Specification** table.
- c. The synchronization input form for Horizontal and Vertical frequencies is separate.

DPM (Display Power Management) mode

If the PC goes to power saving mode, the monitor automatically switches to DPM mode.

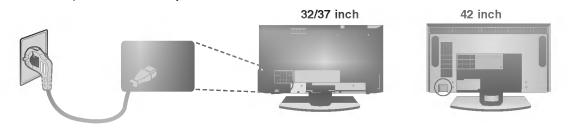
If you don't use the PC cable provided, DPM mode may not work.

- DPM mode is not available in HDMI PC mode.

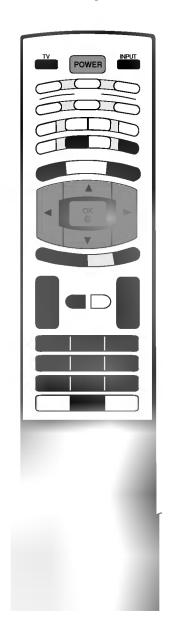
■ DTV

Mode Terminal	Component	RGB (DTV)	HDMI (DTV)
480i	0	x	x
576i	0	x	х
480p	0	o	0
576p	0	o	0
720p	0	o	0
1080i	o	o	0

- Connect the power cord correctly as shown.



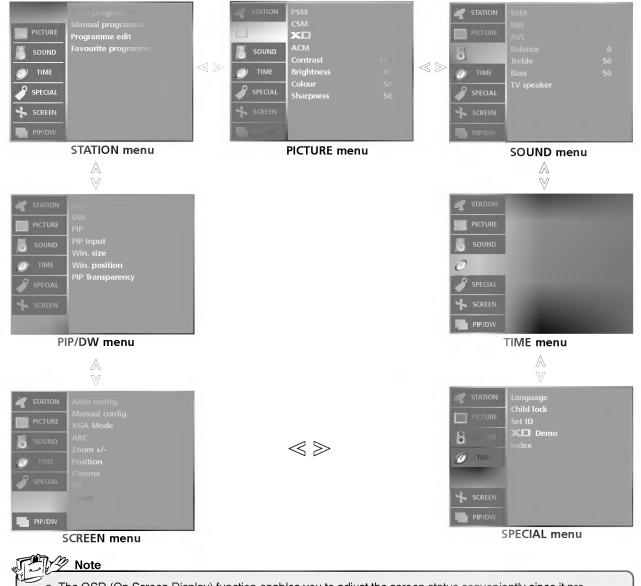
Operation Basic Operation



- 1 First, make all equipment connections. Connect the AC power cord into the TV, then plug the power cord into a wall outlet. Press the **POWER** button located on the TV to turn on the TV. The power indicator will light.
 - In the standby mode, press the POWER, PR ▲ / ▼, TV, INPUT or number buttons on the remote control to turn on the TV.
- 2 If you want to turn the TV off, press the **POWER** button located on the remote control. If you intend to be away on vacation, disconnect the plug from the wall outlet.
- 1 Press the VOL ▲ / ▼ button to adjust the volume.
- 2 If you want to switch the sound off, press the MUTE button. You can cancel this function by pressing the MUTE, VOL ▲ / ▼, //II or SSM button.
- **1** Press the PR \blacktriangle / \blacktriangledown or NUMBER buttons to select a programme number.
- 1 Press the MENU button and then ▲ / ▼ button to select the **Special** menu.
- **2** Press the \triangleright button and then \blacktriangle / \checkmark button to select Language.
- 3 Press the ► button and then ▲ / ▼ button to select your desired language. All the on screen displays will appear in the selected language.
- 4 Press the OK button.
- 5 Press the EXIT button to return to TV viewing.

Operation Basic Operation

- **1** Press the **MENU** button and then \blacktriangle / \blacktriangledown button to display each menu.
- **2** Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select a menu item.
- 3 Change the setting of an item in the sub or pull-down menu with ◄ / ► button. You can move to the higher level menu by pressing the OK or MENU button.



- a. The OSD (On Screen Display) function enables you to adjust the screen status conveniently since it provides graphical presentation.
- b. In this manual, the OSD (On Screen Display) may be different from your TV's because it is just example to help the TV operation.
- c. In the teletext mode, menus are not displayed

😽 Setting up TV stations

Up to 100 TV stations can be stored by programme numbers (0 to 99). Once you have preset the stations, you will be able to use the \blacktriangle / \blacktriangledown or NUMBER buttons to scan the stations you have programmed. Stations can be tuned using automatic or manual modes.



 All stations that can be received are stored by this method. It is recommended that you use auto programme during installation of this set.

PICTURE SOUND TIME SPECIAL SCREEN PIP/DW Proy.	System BG Storage from 1 Start	
--	--------------------------------------	--

- Press the MENU button and then ▲ /▼ button to select the **STATION** menu.
- **2** Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **Auto programme**.
- **3** Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **System**.
- 4 Press the ◄ / ► button to select a TV system menu;
 - : PAL B/G, SECAM B/G (Europe/East Europe)
 - I : PAL I/II (U.K./Ireland)
 - DK : PAL D/K, SECAM D/K (East Europe)
 - L : SECAM L/L' (France)
- **5** Press the \blacktriangle / \checkmark button to select **Storage from**.
- 6 Press the ◄ / ► button or NUMBER buttons to select the beginning programme number. If you use NUMBER buttons, any number under 10 is entered with a numeric '0' in front of it, i.e. '05' for 5.
- **7** Press the \blacktriangle / \checkmark button to select Start.

BG

8 Press the ► button to begin auto programming.

All receivable stations are stored. The station name is stored for stations which broadcast VPS (Video Programme Service), PDC (Programme Delivery Control) or TELETEXT data. If no station name can be assigned to a station, the channel number is assigned and stored as C (V/UHF 01-69) or **S** (Cable 01-47), followed by a number.

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

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

😽 Setting up TV stations



- Manual programme lets you manually tune and arrange the stations in whatever order you desire.

Auto programme	
PICTURE	Storage
	System BG Band V/UHF
O SOUND Pavourite programme	Channel 5
<i>(1)</i> тіме	Fine
SPECIAL	Search
SCREEN	C 05

- 1 Press the MENU button and then ▲ / ▼ button to select the STATION menu.
- **2** Press the \triangleright button and then \blacktriangle / \checkmark button to select **Manual programme**.
- 3 Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **Storage**.
- 4 Press the ◄ / ► button or NUMBER buttons to select the desired programme number (0 to 99). If you use NUMBER buttons, any number under 10 is entered with a numeric '0' in front of it, i.e. '05' for 5.
- 5 Press the ▲ / ▼ button to select System.
- 6 Press the ◀ / ► button to select a TV system menu;
 - BG : PAL B/G, SECAM B/G (Europe/East Europe)
 - I : PAL I/II (U.K./Ireland)
 - DK : PAL D/K, SECAM D/K (East Europe)
 - L : SECAM L/L' (France)
- **7** Press the \blacktriangle / \blacktriangledown button to select **Band**.
- 8 Press the \triangleleft / \triangleright button to select **V/UHF** or **Cable**.
- **9** Press the \blacktriangle / \blacktriangledown button to select **Channel**.
- 10 You can select the desired programme number with the ◀ / ► button or number buttons. If possible, select the programme number directly with the number buttons. Any number under 10 is entered with a numeric '0' in front of it, i.e. '05' for 5.
- **11** Press the \blacktriangle / \triangledown button to select **Search**.
- 12 Press the ◄ / ► button to commence searching. If a station is found the search will stop.
- **13** Press the **OK** button to store it.
- **14** To store another station, repeat steps **3** to **13**.
- 15 Press the EXIT button to return to normal TV viewing.

	67					
	Auto programme			Auto programme		
PICTURE	Manual programme Programme edit		PICTURE		Storage System	BG
sound	Favourite programme		SOUND	Flogramme et anne Favourite programme	Band	
) SOUND			O SOUND	1 3	Channel	5
🥜 тіме		\geq	🕜 ТІМЕ			<►
SPECIAL			SPECIAL		Search	
						C 05
SCREEN			SCREEN			
PIP/DW			PIP/DW		Store	

- Normally fine tuning is only necessary if reception is poor.
- 1 Press the MENU button and then ▲ /▼ button to select the STATION menu.
- 2 Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select Manual programme.
- **3** Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **Fine**.
- **4** Press the \triangleleft / \blacktriangleright button to to fine tune for the best picture and sound.
- 5 Press the OK button to store it.
- 6 Press the EXIT button to return to normal TV viewing.

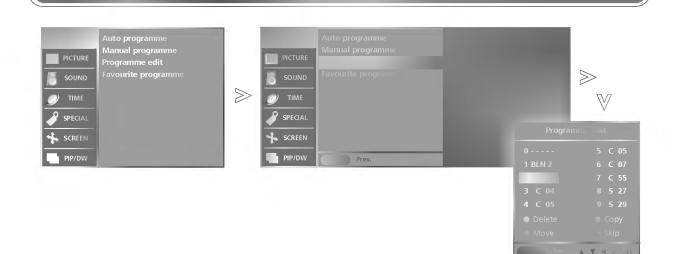
Setting up TV stations

PICTURE SOUND TIME SPECIAL SPECIAL PIP/DW	Auto programme Manual programme Programme edit Favourite programme
1 11 7 10 11	

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

РІСТИ	Programme edit		
Sour	Favourite programme	Band	V/UHF
Ū.		Channel	5
🕐 тім		Fine	
Q and a	100	Search	
	AL		
🔸 scre	N		C 05
PIP/D	W	Store	

- Press the MENU button and then ▲ / ▼ button to select the **STATION** menu.
- 2 Press the ► button and then ▲ / ▼ button to select Manual programme.
- **3** Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **Name**.
- 4 Press the ► button and then ▲ / ▼ button. You can use a blank, +, -, the number 0 to 9 and the alphabet A to Z.
- 5 Press the ◄ / ► button to select the position and make your choice of the second character, and so on.
- 6 Press the OK button to store it.
- 7 Press the EXIT button to return to normal TV viewing.



- This function enables you to delete or skip the stored programmes. Also you can move some stations to other programme numbers or copy a blank station data into the selected programme number.
- Press the **MENU** button and then \blacktriangle / \checkmark button to select the **STATION** menu.
- **2** Press the \triangleright button and then \blacktriangle / \checkmark button to select **Programme edit**.
- **3** Press the ▶ button to display the **Programme edit** menu.

Deleting a programme

- 1. Select a programme to be deleted with the \blacktriangle / \bigtriangledown / \blacklozenge / \blacklozenge button.
- Press the RED button twice. The selected programme is deleted, all the following programmes are shifted up one position.

Copying a programme

- 1. Select a programme to be copied with the \blacktriangle / \bigtriangledown / \blacklozenge / \blacklozenge button.
- 2. Press the GREEN button. All the following programmes are shifted down one position.

Moving a programme

- 1. Select a programme to be moved with the \blacktriangle / \bigtriangledown / \blacklozenge / \blacklozenge button.
- 2. Press the YELLOW button.
- 3. Move the programme to the desired programme number with the \blacktriangle / \checkmark / \checkmark / \checkmark button.
- 4. Press the YELLOW button again to release this function.

Skipping a programme number

- 1. Select a programme number to be skipped with the \blacktriangle / \bigtriangledown / \checkmark / \blacklozenge button.
- 2. Press the BLUE button. The skipped programme turns to blue.
- Press the BLUE button again to release the skipped programme. When a programme number is skipped it means that you will be unable to select it using the ▲ / ▼ button during normal TV viewing. If you want to select the skipped programme, directly enter the programme number with the NUMBER buttons or select it in the programme edit or table menu.

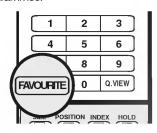
4 Press the **EXIT** button to return to normal TV viewing.

Setting up TV stations

 \gg



- This function lets you select your favourite programmes directly.
- Repeatedly press the FAVOURITE button to select stored favourite programmes.



- **1** Press the **MENU** button and then \blacktriangle / \blacktriangledown button to select the **STATION** menu.
- **2** Press the \blacktriangleright button and then \blacktriangle / \checkmark button to select **Favourite programme**.
- 3 Press the ► button.

PICTURE

SOUND

SCREEN

4 Press the ▲ / ▼ button to select -- ----.

Aanual program

gramme ed

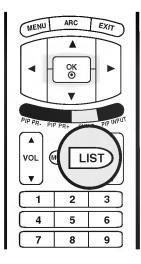
Prev

- **5** Select a desired programme with the \triangleleft / \triangleright button or NUMBER buttons. Any number under 10 is entered with a numeric '0'in front of it, i.e. **05**' for 5.
- 6 To store another programme, repeat steps 4 to 5. You can store up to 8 programmes.
- 7 Press the EXIT button to return to normal TV viewing.

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

Displaying programme table

Press the **LIST** button to display the **Programme table** menu. The programme table appears on the screen. One programme table contains ten programmes as below.



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

Select a programme with the \blacktriangle / \checkmark / \checkmark / \triangleright button. Then press the OK button. The set switches to the chosen programme number.

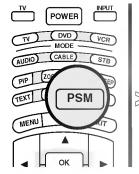
Paging through a programme table

There are 10 programme table pages in which contain 100 programmes. Pressing the \blacktriangle / \checkmark / \checkmark / \checkmark button repeatedly turns the pages.

Press the EXIT button to return to normal TV viewing.

Picture adjustment

- This function adjusts the set for the best picture appearance.
- When adjusting Contrast, Brightness, Colour, Sharpness, and Tint (NTSC only) manually, PSM automatically changes to User.
- Dynamic, Standard, and Mild are programmed for optimum picture reproduction at the factory and cannot be changed.
- When the Intelligent eye function is on, picture is automatically adjusted to most suitable according to the surrounding conditions.
- You can also use the **PICTURE** menu to adjust **PSM**.





Press the PSM button repeatedly to select the picture appearance setup option as shown below: Intelligent Eye, Dynamic, Standard, Mild, or User.

	PSM CSM		
SOUND	ACM Contrast Brightness Colour Sharpness	100 45 50 50	
SCREEN			

- For initialize values (reset to default settings), select the Normal option.
- When adjusting colour temperature options (Red, Green, or Blue) manually, CSM automatically changes to User.

STATION	PSM		
	XD		
SOUND	ACM		
0	Contrast		
🕜 тіме	Brightness	Red	0
	Colour	Green	
SPECIAL	Sharpness	Blue	
SCREEN			
PIP/DW	Prev.		

- Press the MENU button and then ▲ / ▼ button to select the **PICTURE** menu.
- 2 Press the ► button and then ▲ / ▼ button to select CSM.
- **3** Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **Cool**, **Normal**, **Warm**, or **User**.
 - Cool : To see less intense colors with more blue.
 - Normal : To initialize values (reset to default settings).
 - Warm : To enhance hotter colors such as red.
 - **User** : To adjust red, green, blue to any colour temperature you prefer. 1. Press the ▲ / ▼ button to select **User**.
 - 2. Press the \blacktriangleright button and then \blacktriangle / ∇ button to select **Red**, **Green**, or **Blue**.
 - 3. Press the ◀ / ► button to make appropriate adjustments.
- 4 Press the EXIT button to return to normal TV viewing.

Picture adjustment

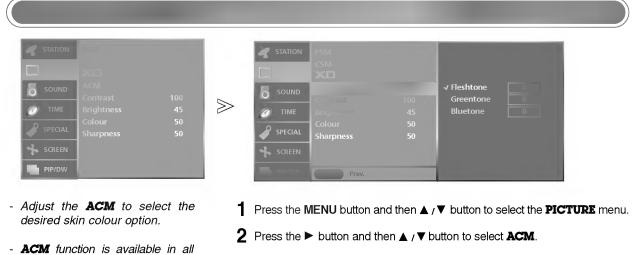


- XD is LG's unique picture improving technology to display a real HD source through an advanced digital signal processing algorithm.
- When selecting PSM options (Dynamic, Standard, or Mild), XD is automatically change to On. If XD setting is Off, PSM is automatically change to User and ACM function is not available.
- **XD** function is not available in RGB PC/HDMI PC mode.

modes except RGB PC/HDMI PC



- Press the MENU button and then ▲ / ▼ button to select the **PICTURE** menu.
- **2** Press the \blacktriangleright button and then \blacktriangle / \checkmark button to select **XD**.
- **3** Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **On** or **Off**.
- 4 Press the EXIT button to return to normal TV viewing.

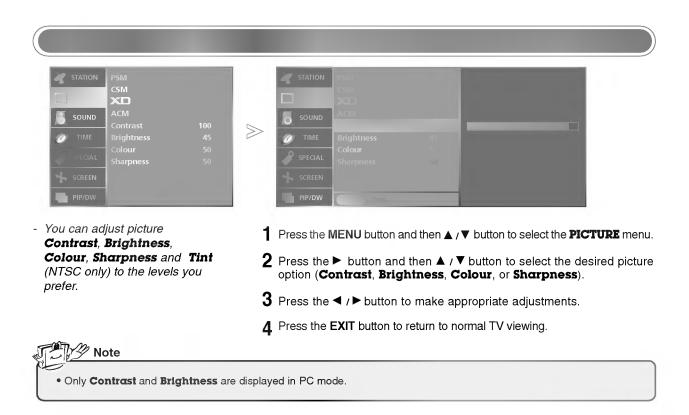


- 3 Press the ► button and then ▲ / ▼ button to select **Fleshtone**, **Greentone**, or **Bluetone**.
- 4 Press the ◄ / ► button to make appropriate adjustments.
- 5 Press the EXIT button to return to normal TV viewing.

mode.

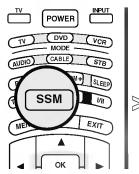
STATION SOUND SOUND TIME SRGB Contrast SRGB Contrast Bightness 45

- When the set was connected to external equipment with sRGB function, it's adjusted a colour difference to display the equal image each other.
- **sRGB** function is available in RGB PC/HDMI PC mode.
- **1** 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 **sRGB**.
- **3** Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **On** or **Off**.
- 4 Press the EXIT button to return to normal TV viewing.



👌 Sound adjustment

- **SSM** lets you enjoy the best sound without any special adjustment because the TV sets the appropriate sound options based on the program content.
- When adjusting sound equalizer manually, SSM automatically switches User.
- SRS TSXT, Flat, Music, Movie, and Sports are preset for good sound quality at the factory and are not adjustable.
- If SRS TSXT is selected, BBE, Treble, and Bass functions are not available.
- You can also use the **SOUND** menu to adjust **SSM**.





- Press the SSM button repeatedly to select the picture appearance setup option as shown below: SRS TSXT, Flat, Music, Movie, Sports, or User.
- TruSurround XTtechnology is incorporated under license from SRS Labs, Inc. • SRSCO is a trademark of SRS Labs, Inc.

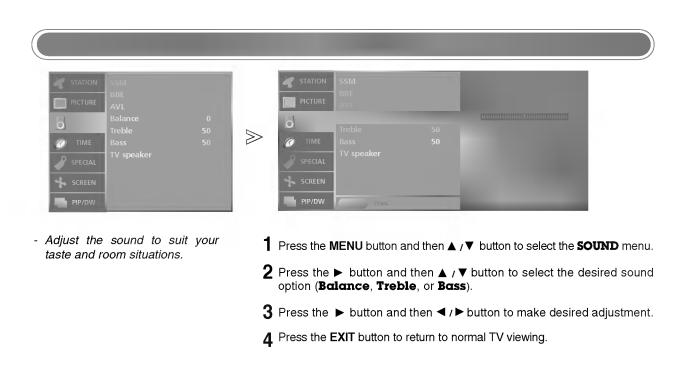


- BBE High Definition Sound restores clarity and presence for better speech intelligibility and musical realism.
- STATION SSM PICTURE Balance 0 Treble 50 Bass 50 V speaker PIP/DW Prev.
 - 1 Press the MENU button and then ▲ / ▼ button to select the SOUND menu.
 - **2** Press the \blacktriangleright button and then \blacktriangle / \checkmark button to select **BBE**.
 - **3** Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **On** or **Off**.
 - Press the EXIT button to return to normal TV viewing.

BBE, Manufactured under license from BBE Sound, Inc.

	SSM			SSM		
PICTURE	BBE AVL		PICTURE	BBE		
6	Balance Treble		Ы	Balance Treble		
🕜 TIME		\geqslant	🧭 ТІМЕ		50	
SPECIAL			SPECIAL	TV speaker		
SCREEN			SCREEN			
PIP/DW			PIP/DW	Prev.	_	

- keeps on an equal volume level even if you change programmes.
- Press the MENU button and then ▲ / ▼ button to select the SOUND menu.
- **2** Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **AVL**.
- **3** Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **On** or **Off**.
- 4 Press the EXIT button to return to normal TV viewing.



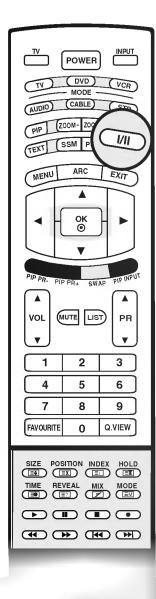
Sound adjustment



>>	STATION PICTURE	SSM BBE AVL Balance Treble	0 50	2	
	SPECIAL SPECIAL SCREEN	Bass	50		

- You can adjust internal speaker status.
- If you want to use your external hifi stereo system, turn off the internal speakers of the set.
- **1** 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 **TV Speaker**.
- **3** Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **On** or **Off**.
- 4 Press the EXIT button to return to normal TV viewing.

I/II



Stereo/Dual reception

When a programme is selected, the sound information for the station appears after the programme number and station name disappear.

Broadcast
Mono
Stereo
Dual

On Screen Display MONO STEREO DUAL I

Mono sound selection

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

Language selection for dual language broadcast

If a programme is received in two languages (dual language), you can switch to **DUAL I, DUAL II** or **DUAL I+II** by pressing the **I/II** button repeatedly. **DUAL I** sends the primary broadcast language to the loudspeakers. **DUAL II** sends the secondary broadcast language to the loud-speakers. **DUAL I+II** sends a separate language to each loudspeaker.

NICAM reception (This feature is not available in all countries.)

If your set is equipped with the receiver for NICAM reception, the high quality NICAM (Near Instantaneous Companding Audio Multiplex) digital sound can be received.

Sound output can be selected according to the type of received broadcast as follows by pressing the I/II button repeatedly.

- 1. When NICAM mono is received, you can select NICAM MONO or FM MONO.
- 2. When **NICAM stereo** is received, you can select **NICAM STEREO** or **FM MONO**. If the stereo signal is weak, switch to **FM mono**.
- 3. When NICAM dual is received, you can select NICAM DUAL I, NICAM DUAL II or NICAM DUAL I+II or MONO. When FM mono is selected the display MONO appears on the screen.

Sound output selection

In AV1, AV2, AV3, S-Video, Component, RGB PC/RGB DTV, or HDMI

PC/ HDMI DTV mode, you can select output sound for the left and right loud-speakers. Repeatedly press the I/II button to select the sound output.

- L+R : Audio signal from audio L input is sent to left loud-speaker and audio signal from audio R input is sent to right loud-speaker.
- L+L : Audio signal from audio L input is sent to left and right loud-speakers.
- $\ensuremath{\textbf{R+R}}$: Audio signal from audio R input is sent to left and right loud-speakers.

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



- The off time automatically switches the set to standby at the preset time.

PICTURE	
	√ On
(0)	Volume 30
	Programme 0
SPECIAL	
PIP/DW Prev.	

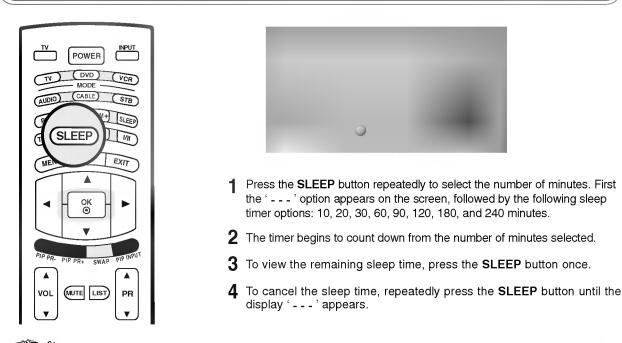
- Press the MENU button and then ▲ / ▼ button to select the **TIME** menu.
- 2 Press the ► button and then ▲ / ▼ button to select Off time or On time.
- 3 Press the ► button and then ▲ / ▼ button to select On.
 To cancel On/Off time function, press the ▲ / ▼ button to select Off.
- 4 Press the \blacktriangleright button and then \blacktriangle / \checkmark button to set the hour.
- 5 Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to set the minutes.
- 6 Only On time function; Press the \triangleright button and then \blacktriangle / \blacktriangledown button to adjust volume level and programme number.
- 7 Press the EXIT button to return to normal TV viewing.

Note Note

- a. In the event of power interruption (disconnection or power failure), the clock must be reset.
- b. 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.
- c. Once the On or Off Time is set, these functions operate daily at the preset time.
- d. Off Time function overrides On Time function if they are set to the same time.
- e. The set must be in standby mode for the On Time to work.

STATION PICTURE SOUND SOUN	SPECIAL
 If set to on and there is no input signal, the TV turns off automatically after 10 minutes. 	 SCREEN Press the MENU button and then ▲ / ▼ button to select the TIME menu. Press the ► button and then ▲ / ▼ button to select Auto sleep.

- 2 Press the ► button and then ▲ / ▼ button to select Auto sleep.
 - 3 Press the ► button and then ▲ / ▼ button to select **On** or **Off**.
 - 4 Press the EXIT button to return to normal TV viewing.



🦻 <u>Note</u>

- a. To view the remaining sleep time, press the SLEEP button once.
- b. When you switch the set off, the set releases the preset sleep time.

Special Menu



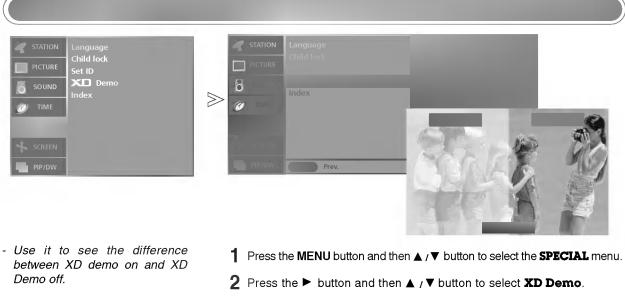
- The TV can be set so that the remote control handset is needed to control it. This feature can be used to prevent unauthorized viewing.



- Press the MENU button and then ▲ / ▼ button to select the SPECIAL menu.
- **2** Press the \triangleright button and then \blacktriangle / \bigtriangledown button to select Child lock.
- **3** Press the \blacktriangleright button and then \blacktriangle / \blacktriangledown button to select **On** or **Off**.
- 4 Press the EXIT button to return to normal TV viewing.

🖗 Note

- a. This set programmed to remember which option it was last set to even if you turn the set off. b. In **Child lock** '**On**', if the set is turned off, press the **POWER**, **INPUT**, **PR** ▲ / ▼ button on the set or **POWER**,
- TV, INPUT, PR ▲ / ▼ or NUMBER buttons on the remote control.
- c. With the Child lock On, the display 'Child lock on' appears on the screen if any button on the front panel is pressed while viewing the set.

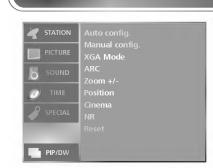


- XD Demo function is not available in RGB PC/HDMI PC mode.
- 3 Press the ► button to start XD Demo.
 - 4 To stop **XD Demo**, press the **EXIT** button.

	PICTURE Set ID		
	SOUND Demo		
≥ 0	ТІМЕ		
+	SCREEN	_	
			Sound Demo

- front panel turns the lamp on.
- menu.
- **2** Press the \blacktriangleright button and then \blacktriangle , \blacktriangledown button to select **Index**.
- **3** Press the \blacktriangleright button and then \blacktriangle , \blacktriangledown button to select **On** or **Off**.
- **4** Press the **EXIT** button to return to normal TV viewing.

Screen Menu



- Auto config. function is available in RGB PC mode only.
- Automatically adjusts picture position and minimizes image shaking.
- After adjustment, if the image is still not correct, your TV is functioning properly but needs further adjustment.
- Automatically adjusts the screen position, clock, and phase. (The displayed image will disappear for a few seconds while Auto-configuration is in progress.)

STATION PICTURE SOUND TIME SPECIAL	Manual config. XGA Mode ARC Zoom +/- Position Cinema NR Poset	
PIP/DW	Prev.	

- 1 Press the MENU button and then use ▲ / ▼ button to select the SCREEN menu.
- 2 Press the ► button and then use ▲ / ▼ button to select Auto config.
- 3 Press the ► button to start **Auto configure**. • If the position of the image is still not correct, try Auto adjustment again.

STATION Auto config.	🗶 STATIO	N if the config.	
PICTURE XGA Mode	PICTUR	E XGA M	10
SOUND	SOUND		0
Zoom +/-		Zoom +/- Position	
Cinema		Cinema	
SPECIAL NR	SPECIA	NK	
Reset			
PIP/DW	PIP/DW	Prev.	

- able in RGB PC or Component (480p, 576p, 720p, 1080i) mode.
- If the picture isn't clear after auto adjustment and especially that characters are still trembling, adjust the picture phase manually.
- To correct the screen size, adjust Clock.
- In Component [480i, 576i] mode, H-position/V-Position function is not available.

- Press the MENU button and then use ▲ / ▼ button to select the SCREEN menu.
- 2 Press the \blacktriangleright button and then use \blacktriangle / \checkmark button to select **Manual config.**
- 3 Press the ► button and then use **▲** / ▼ button to select **Phase**, **Clock**, **H**-Position, or V-Position.
 - Phase : This function allows you to remove any horizontal noise and clear or sharpen the image of characters.
 - Clock : This function is to minimize any vertical bars or stripes visible on the screen background. And the horizontal screen size will also change.
 - H-Position / V-Position : This function is to adjust picture to left/right and up/down as you prefer.
- 4 Press the </ > button to make appropriate adjustments.
- 5 Press the EXIT button to return to normal TV viewing.

STATION Auto config. PICTURE Manual config. SOUND XGA Mode SOUND ARC ZOOM +/- Position Original Cinema NR Reset PIP/DW PIP/DW	≫	STATION STATION CURE CURE CURE CURE CURE CURE CURE CURE	Auto config. Manual config. CRC Zoom 4/- Position Cinema Ma Prev.	✓ 1024x768 1280x768 1360x768 1366x768	
---	---	---	--	--	--

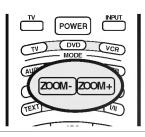
- **XGA Mode** function is available in RGB PC mode and XGA/WXGA mode (60Hz) only.
- For more improved or better picture quality, select the same mode corresponding to computer resolution.
- 1 Press the MENU button and then use ▲ /▼ button to select the SCREEN menu.
- 2 Press the ► button and then use ▲ / ▼ button to select XGA Mode.
- 3 Press the ► button and then use ▲ / ▼ button to select desired mode. From this point on, the adjustment starts.

	Auto config.
	Manual config. XGA Mode
8 SOUND	ARC Zoom +/-
🕜 тіме	Position
	Cinema NR
	Reset
PIP/DW	

 \gg

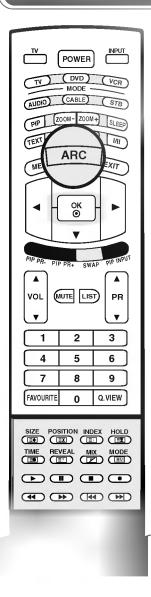
	Auto config.
PICTURE	Manual config. XGA Mode
O SOUND	ARC
🕜 тіме	Position
	Cinema NR
PIP/DW	Prev.

- When enlarging or reducing the picture, the screen may be display unnatural picture.
- You can also enlarge or reduce the picture size with ZOOM /ZOOM + on the remote control and then adjust the main picture position with the ▲ / ▼ / ◄
 / ▶ buttons in enlarged picture mode.
- Zoom + / function is not available in RGB PC mode.



- 1 Press the MENU button and then use ▲ / ▼ button to select the SCREEN menu.
- 2 Press the \blacktriangleright button and then use \blacktriangle / \checkmark button to select **Zoom** + /-.
- 3 Press the ► button and then
 The adjustment range of zoom is 100~300 %.
- 4 Press the EXIT button to return to normal TV viewing.

🔸 Screen Menu



- You can watch TV in various picture formats; Spectacle, Full, Original, 4:3, 16:9, 14:9, Zoom. Repeatedly press the ARC button to select your desired picture format.
- You can also use the SCREEN menu to adjust ARC.

Spectacle

When your TV receives the wide screen signal, it will lead you to adjust the picture horizontally, in a nonlinear proportion, to fill the entire screen.

Full

When your TV receives the wide screen signal, it will lead you to adjust the picture horizontally or vertically, in a linear proportion, to fill the entire screen fully.

Original

When your TV receives the wide screen signal, it will be automatically changed to the picture format to be sent.

4:3

This picture format is 4 to 3 of general TV.

16:9

You can enjoy the cinema (the picture format of 16:9) or general TV programme through the 16:9 mode.

The screen 16:9 is viewed just like that but the screen 4:3 is magnified to the left and right so that the screen 16:9 is full.

14:9

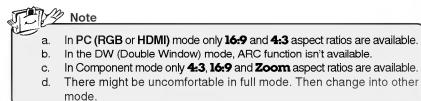
You can enjoy the picture format of 14:9 or general TV programme through the 14:9 mode.

The screen 14:9 is viewed just like that the screen 4:3 is magnified to the upper / lower and left / right.

Zoom

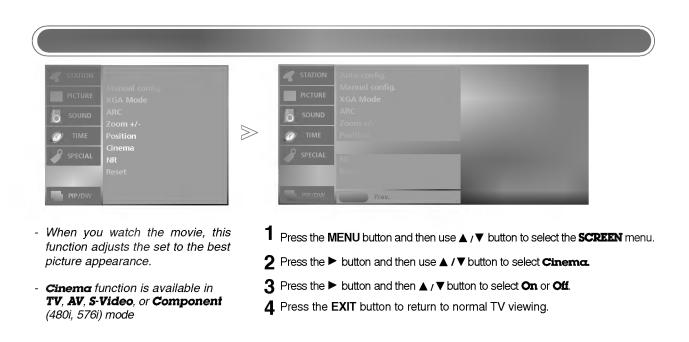
You can enjoy the cinema in a vast screen through the Zoom mode.

The screen 4:3 is magnified to the upper / lower and left / right sides so that the screen 16:9 is full. The bottom and top of the picture may be lost.

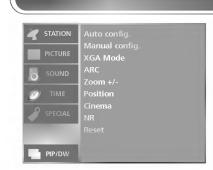


STATION Auto config. Manual config. XGA Mode ARC Zoom +/- TIME Position SPECIAL Ginema NR Reset	STATION PICTURE SOUND Continue SPECIAL	Auto config. Manual config. XGA Mode ARC Zoom +/- Cinema NR Reset	
PIP/DW	PIP/DW	Prev.	_

- When screen is enlarged, you can change the position of the picture.
- **Position** function is not available in RGB PC mode.
- 1 Press the MENU button and then use \blacktriangle / \checkmark button to select the SCREEN menu.
- **2** Press the \blacktriangleright button and then use \blacktriangle / \blacktriangledown button to select **Position.**
 - **3** Press the \blacktriangleright button and then \blacktriangle / \bigtriangledown / \triangleleft / \blacktriangleright button to adjust the position.
 - **4** Press the **EXIT** button to return to normal TV viewing.



🔸 Screen Menu



- You can select 3D NR or MPEG NR to reduce the picture noise which may appear on the screen during watching the TV.
- This function is not available for use in **RGB PC**, **HDMI PC** mode.
- 3D NR is not available for use in Component, RGB DTV, HDMI DTV mode.

tion and sub picture size for twin pic-

- This function operates in every mode. To initialize the adjusted

		Auto config.
	PICTURE	Manual config. XGA Mode
	Sound	ARC Zoom +/-
>	🧭 ТІМЕ	
		Cinema
		Reset
	PIP/DW	Prov

- 1 Press the MENU button and then use ▲ / ▼ button to select the SCREEN menu.
- **2** Press the \blacktriangleright button and then use \blacktriangle / \blacktriangledown button to select **NR**.
- **3** Press the \blacktriangleright button and then use \blacktriangle / \blacktriangledown button to select **3D NR** or **MPEG NR**.
- **4** Press the **◄** / ► button to make appropriate adjustments.
 - The adjustment range of **3D NR** is 0~2.
 - The adjustment range of MPEG NR is 0~15.
- 5 Press the EXIT button to return to normal TV viewing.



- 2 Press the ► button and then use ▲ / ▼ button to select **Reset**.
 - 3 Press the ► button to start **Reset**. The display **OK** will appear.

ture.

value.

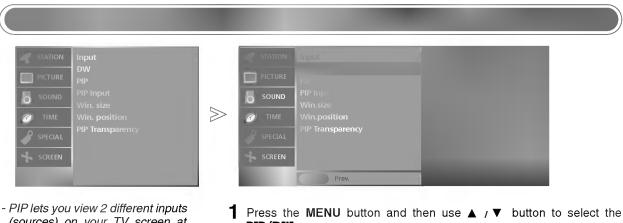
PIP (Picture-In-Picture) / DW (Double) Window) Menu

0

 \gg

PICTURE	DW PIP
O SOUND	PIP Input Win. size
🧭 тіме	Win. position
	PIP Transparenc
SCREEN	

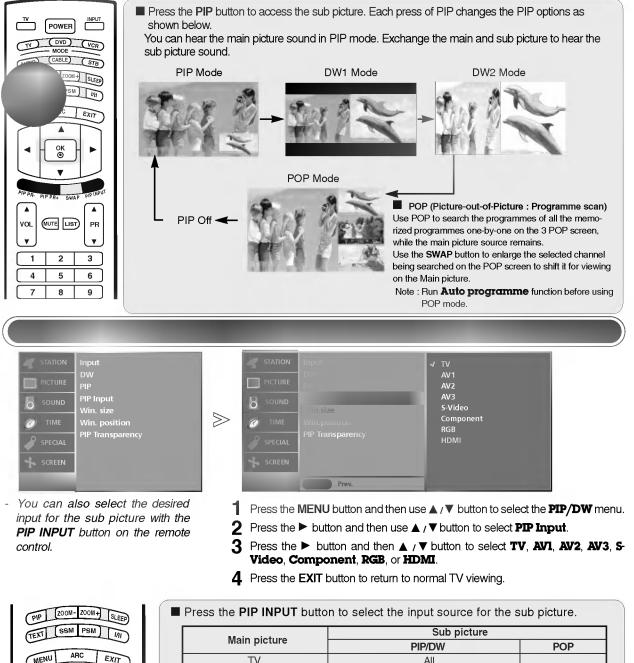
- You can also select the desired input with the INPUT button on the remote control.
- Press the MENU button and then use ▲ / ▼ button to select the PIP/DW menu.
- **2** Press the \blacktriangleright button and then use \blacktriangle / \checkmark button to select **Input**.
- 3 Press the ▶ button and then ▲ / ▼ button to select **TV**, **AV1**, **AV2**, **AV3**, **S**-Video, Component, RGB PC/RGB DTV, or HDMI PC/ HDMI DTV.
- 4 Press the **EXIT** button to return to normal TV viewing.



- (sources) on your TV screen at the same time. One source will be large, and the other source will show a smaller inset image.
- DW (Double Window) mode splits the screen into 2, allowing 2 picture sources to be shown on the TV screen at the same time. Each source is given half the screen.
- You can also select the DW/PIP with the PIP button on the remote control.

- PIP/DW menu.
- **2** Press the \blacktriangleright button and then use \blacktriangle / \blacktriangledown button to select **DW** or **PIP**.
- 3 Press the \blacktriangleright button and then \blacktriangle / \checkmark button to select the item.
- 4 Press the **EXIT** button to return to normal TV viewing.

PIP (Picture-In-Picture) / DW (Double Window) Menu



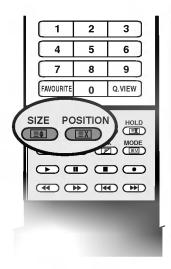
TEXT	Loost Down	
MENU	ARC EX	T
		Ĩ
	ОК	
PIP PR-	PIP PR+ SN PIP	INPUT

Main niatura	Sub picture								
Main picture	PIP/DW	POP							
TV	V All								
AV1	All (Except AV1)								
AV2	All (Except AV2)								
AV3	All (Except AV3)								
S-Video	All (Except S-Video)	TV							
Component	All (Except Component)								
RGB PC / RGB DTV	All (Except RGB, HDMI)								
HDMI PC / HDMI DTV	All (Except RGB, HDMI)								

48

)
	Input		Input	
	DW PIP	PICTURE	DW PIP	
5 SOUND	air input	5 SOUND	PIP Input Win.size	A
	Win.pattor	<i>3</i> тіме	DID Transparance	▫◂ੵੑ੶੶੶
SPECIAL	PIP Transparency		PIP Transparency	
SCREEN		SCREEN		
	Prev.		Prev.	

- You can also adjust the **Win.** size/Win. position with the SIZE/POSITION button on the remote control.
- **1** Press the **MENU** button and then use ▲ / ▼ button to select the **PIP/DW** menu.
- 2 Press the ► button and then use ▲ / ▼ button to select **Win. size** or **Win. position**.
 - Win. size : Press the ◀ / ► button to adjust the sub picture size.
 - Win. position : Press the ▲ / ▼ / ◄ / ► button until desired position is achieved.
- **3** Press the **EXIT** button to return to normal TV viewing.



Sub Picture Size Adjustment



Press the **SIZE** button and then ◀ / ► button to adjust the sub picture size.

Using the **SIZE** button in DW1, DW2 modes, main and sub picture are adjusted simultaneously. Using the **SIZE** button in PIP mode, sub picture is adjusted.

Moving the Sub Picture (PIP mode only)



Press the **POSITION** button. Beneatedly press the $A \vee \nabla = A \wedge \nabla$

Repeatedly press the ▲ / ▼ / ◀ / ► button until desired position is achieved. The sub picture moves up/down or left/right.

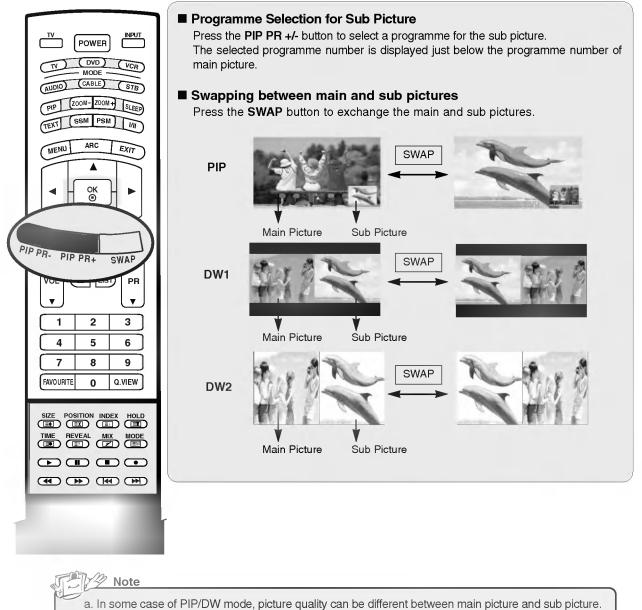
PIP (Picture-In-Picture) / DW (Double Window) Menu

	input
PICTURE	DW PIP
SOUND	PIP Input Win. size
🧭 тіме	Win. position
SPECIAL	PIP Transparency
SCREEN	

		Input
	PICTURE	DW PIP
	8 SOUND	PIP Input
>	Ø TIME	Win.size Win.position
	SCREEN	
	_	How .

- This function is to make the PIP clear or opaque.
- **1** Press the **MENU** button and then use ▲ / ▼ button to select the **PIP/DW** menu.
- 2 Press the ► button and then use ▲ / ▼ button to select **PIP Transparency**.
- 3 Press the ► button and then use < / ► button to make appropriate adjustments.
 The adjustment range of is 0~10.
- **4.** Press the **EXIT** button to return to normal TV viewing.

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the sub picture may appear poor as compared to main picture.

Teletext

Teletext (or TOP text) is an optional function, therefore only a set with the teletext system can receive the teletext broadcast.

Teletext is a free service broadcast by most TV stations which gives up-to-the-minute information on news, weather, television programmes, share prices and many other topics.

The teletext decoder of this TV can support the SIMPLE, TOP and FASTEXT systems. SIMPLE (standard teletext) consists of a number of pages which are selected by directly entering the corresponding page number. TOP and FASTEXT are more modern methods allowing quick and easy selection of teletext information.

Switch on/off

Press the **TEXT** button to switch to teletext. The initial page or last page appears on the screen. Two page numbers, TV station name, date and time are displayed on the screen headline. The first page number indicates your selection, while the second shows the current page displayed.

Press the **TEXT** button to switch off teletext. The previous mode reappears.

SIMPLE text

Page selection

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

Programming a colour button in LIST mode

If the TV is in SIMPLE text, TOP text or FASTEXT mode, press the EM button to switch to LIST mode.

Four teletext page numbers of your choice can be colour coded and easily selected by pressing the corresponding coloured button on the remote control handset.

- 1. Press a coloured button.
- 2. Using the NUMBER buttons, select the page you wish to programme.
- 3. Press the **OK** button. Then the selected page is stored as the selected page number by blinking once. From now on, you can select this page with the same coloured button.
- 4. The three other coloured buttons are programmed in this way.

TOP text (This feature is not available in all countries)

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

Block / group / page selection

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

Direct page selection

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

FASTEXT

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

Page selection

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



E? REVEAL

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

E SIZE

Selects double height text.

Press this button to enlarge the top half of the page.

Press this button again to enlarge the bottom half of the page.

Press this button again to return to the normal display.

Displays the TV picture on the screen while waiting for the new teletext page. The display \implies will appear at the top left hand corner of the screen. When the updated page is available then display \implies will change to the page number.

Press this button to view the updated teletext page.

E HOLD

Stops the automatic page change which will occur if a teletext page consists of 2 or more sub pages. The number of sub pages and the sub page displayed is, usually, shown on the screen below the time. When this button is pressed the stop symbol is displayed at the top left-hand corner of the screen and the automatic page change is inhibited. To continue press this button again.



Displays the teletext pages superimposed on the TV picture. To switch the TV picture off press this button again.

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

✓ / ► or NUMBER buttons.

Press again to exit this function.

Reference Troubleshooting Checklist

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

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

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

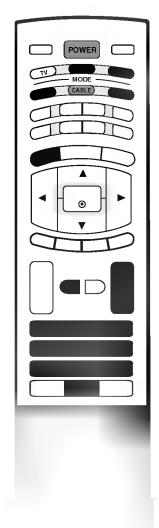
	There is a problem in PC mode. (Only PC mode applied)
The signal is out of range.	 Adjust resolution, horizontal frequency, or vertical frequency. Check it whether the signal cable is connected or loose. Check the input source.
Vertical bar or stripe on back- ground & Horizontal Noise & Incorrect position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

Product Specifications

Power Requirement/ Power Consumption	32LB1R** : AC 100-240V~ 50/60Hz 1.5A / 145W 37LB1R** : AC 100-240V~ 50/60Hz 2.0A / 180W 42LB1R** : AC 100-240V~ 50/60Hz 2.5A / 240W
Dimensions (Width x Depth x Height)	32LB1R** : 911.4mm x 259.0mm x 596.0mm 35.9inches x 10.2inches x 23.5inches 37LB1R** : 1046.0mm x 296.0mm x 690.0mm 41.2inches x 11.7inches x 27.2inches 42LB1R** : 1175.0mm x 300.0mm x 768.0mm
Weight (Net)	42LB1R** : 1173.0mm x 300.0mm x 700.0mm 46.3inches x 11.8inches x 30.2inches 32LB1R** : 22.6kg (49.8lbs) 37LB1R** : 31.6kg (69.7lbs) 42LB1R** : 41.4kg (91.3lbs)
Television System Programme Coverage External Antenna Impedance	PAL/SECAM B/G/D/K, PAL I/II, SECAM L/L² VHF: E2 ~ E12, UHF: E21 ~ E69, CATV: S1 ~ S20, HYPER: S21 ~ S47 75 Ω

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

Reference Programming the Remote control



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

1. Test your remote control.

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

- 2. Turn on the component to be programmed, then press the corresponding mode button (such as a **DVD** or **VCR**) on the remote control. The remote control button of desired device is lighted.
- 3. Press the **MENU** and **MUTE** buttons simultaneously, the remote control is ready to be programmed for the code.
- 4. 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.
- 5. Press the MENU button to store the code.
- 6. Test the remote control functions to see if the component responds properly. If not, repeat from step 2.

Programming Codes

VCRs

Brand	Codes	Brand	Codes	Brand	Codes	Brand	Codes
AIWA	034	KENWOOD	014 034 039 043	PORTLAND	108	TATUNG	039 043
AKAI	016 043 046 124		047 048	PULSAR	072	TEAC	034 039 043
	125 146	LG (GOLDSTAR)	001 012 013 020	QUARTZ	011 014	TECHNICS	031 033 070
AMPRO	072		101 106 114 123	QUASAR	033 066 075 145	TEKNIKA	019 031 033 034
ANAM	031 033 103	LLOYD	034	RCA	013 020 033 034		101
AUDIO DYNAMICS	012 023 039 043	LXI	003 009 013 014		040 041 062 063	THOMAS	034
BROKSONIC	035 037 129		017 034 101 106		107 109 140 144	ТМК	006
CANON	028 031 033	MAGIN	040		145 147	TOSHIBA	008 013 042 047
CAPEHART	108	MAGNAVOX	031 033 034 041	REALISTIC	003 008 010 014		059 082 112 131
CRAIG	003 040 135		067 068		031 033 034 040	TOTEVISION	040 101
CURTIS MATHES	031 033 041	MARANTZ	012 031 033 067		053 054 101	UNITECH	040
DAEWOO	005 007 010 064		069	RICO	058	VECTOR RESEARCH	012
	065 108 110 111	MARTA	101	RUNCO	148	VICTOR	048
	112 116 117 119	MATSUI	027 030	SALORA	014	VIDEO CONCEPTS	012 034 046
DAYTRON	108	MEI	031 033	SAMSUNG	032 040 102 104	VIDEOSONIC	040
DBX	012 023 039 043	MEMOREX	003 010 014 031		105 107 109 112	WARDS	003 013 017 024
DYNATECH	034 053		033 034 053 072		113 115 120 122		031 033 034 040
ELECTROHOME	059		101 102 134 139		125		053 054 131
EMERSON	006 017 025 027	MGA	045 046 059	SANSUI	022 043 048 135	YAMAHA	012 034 039 043
	029 031 034 035	MINOLTA	013 020	SANYO	003 007 010 014	ZENITH	034 048 056 058
	036 037 046 101	MITSUBISHI	013 020 045 046		102 134		072 080 101
	129 131 138 153		049 051 059 061	SCOTT	017 037 112 129		
FISHER	003 008 009 010		151		131		
FUNAI	034	MTC	034 040	SEARS	003 008 009 010		
GE	031 033 063 072	MULTITECH	024 034		013 014 017 020		
	107 109 144 147	NEC	012 023 039 043		031 042 073 081		
GO VIDEO	132 136		048		101		
HARMAN KARDON	012 045	NORDMENDE	043	SHARP	031 054 149		
HITACHI	004 018 026 034	OPTONICA	053 054	SHINTOM	024		
	043 063 137 150	PANASONIC	066 070 074 083	SONY	003 009 031 052		
INSTANTREPLAY	031 033		133 140 145		056 057 058 076		
JCL	031 033	PENTAX	013 020 031 033		077 078 149		
JCPENNY	012 013 015 033		063	SOUNDESIGN	034		
	040 066 101	PHILCO	031 034 067	STS	013		
JENSEN	043	PHILIPS	031 033 034 054	SYLVANIA	031 033 034 059		
JAC	012 031 033 043	1	067 071 101		067		
	048 050 055 060	PILOT	101	SYMPHONIC	034		
	130 150 152	PIONEER	013 021 048	TANDY	010 034		
L							

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

Reference

Programming Codes

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 (GOLDSTAR)	001 010 016 025	PANASONIC	003 009	SAMSUNG	011 015		

Brand	Codes	Brand	Codes	Brand	Codes	Brand	Codes
ABC	003 004 039 042	GOLDEN CHANNEL	_030	PHILIPS	006 012 013 020	SPRUCER	047 078
	046 052 053	HAMLIN	049 050 055		065 085 090	STARCOM	002 004 008 009
AJIN	112	HITACHI	052 055	PIONEER	034 051 052 063	STARGATE	008 030
ANTRONIK	014	HOSPITALITY	070 077		076	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	тосом	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	POST NEWS WEEK	(016	SL MARX	030		

STB

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

IR codes

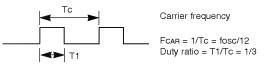
How to Connect

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

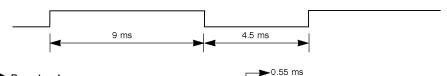
• 1st frame

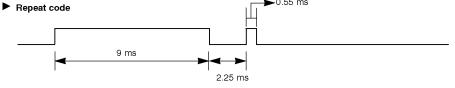


Repeat frame

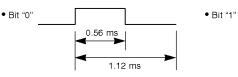


Lead code





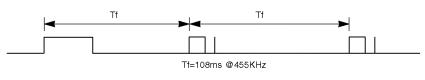
Bit description





Frame interval : Tf

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



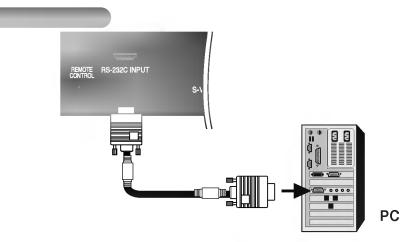
Reference

IR codes

OFTVRemote Control Button08POWERRemote Control Button08INPUTRemote Control Button04POWER ONDiscrete IR Code (Only Power On)05POWER OFFDiscrete IR Code (Only Power OFF)60PIPRemote Control Button5DZOOM-Remote Control Button5CZOOM+Remote Control Button52SSMRemote Control Button52SSMRemote Control Button64J/IIRemote Control Button79ARCRemote Control Button79ARCRemote Control Button66►Remote Control Button77◄Remote Control Button66►Remote Control Button41▼Remote Control Button72PIP PR-Remote Control Button71PIP PR-Remote Control Button72REDRemote Control Button71GREENRemote Control Button71GREENRemote Control Button	Code (Hexa)	Function	Note
63 YELLOW Remote Control Button 61 BLUE Remote Control Button 02 VOL▲ Remote Control Button 03 VOL▼ Remote Control Button 00 PR▲ Remote Control Button 01 PR▼ Remote Control Button 09 MUTE Remote Control Button 53 LIST Remote Control Button 10~19 Number Key 0~ 9 Remote Control Button 1A Q.VIEW Remote Control Button 64 SIZE Remote Control Button 62 PIP : POSITION, Remote Control Button 70 INDEX Remote Control Button 65 HOLD Remote Control Button 26 TIME Remote Control Button 2A REVEAL Remote Control Button 24 MIX Remote Control Button	OF 08 0B C4 C5 60 5D 5C 0E 20 52 4D 0A 43 79 5B 07 06 40 41 44 72 71 63 61 72 71 63 61 02 03 00 01 09 53 10~19 1E 1A 64 62 70 65 26 2A	TV POWER INPUT POWER ON POWER OFF PIP ZOOM- ZOOM- ZOOM+ SLEEP TEXT SSM PSM I/I MENU ARC EXIT ◄ ► A ♥ OK PIP PR- PIP PR- PIP PR+ SWAP PIP INPUT RED GREEN YELLOW BLUE VOL ▲ VOL ▼ PR ▲ PR ♥ MUTE LIST Number Key 0~ 9 FAVOURITE Q.VIEW SIZE PIP : POSITION, Teletext : UPDATE INDEX HOLD TIME REVEAL	Remote Control Button Remote Control Button Discrete IR Code (Only Power On) Discrete IR Code (Only Power OFF) Remote Control Button Remote Control Button

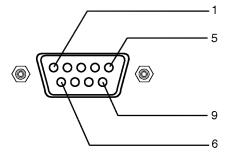
External Control Device Setup ; RS-232C

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

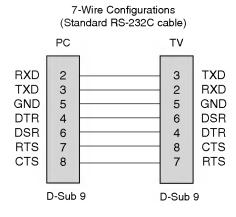


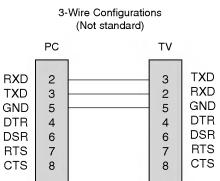
Type of Connector; D-Sub 9-Pin Male

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



RS-232C Configurations





D-Sub 9

D-Sub 9

Reference External Control Device Setup ; RS-232C

- Use this function to specify a monitor ID number.

- Refer to 'Real Data Mapping 1'. See page 63.
- Press the MENU button and then use ▲ / ▼ button to select the Spectal menu.
- 2. 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.
- 4. Press the **OK** button to save.

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.

COM			
	1	2	(Hexa)
01. Power	k	а	0~1
02. Input Select (Main Picture)	х	b	*
03. Input Select (Sub Picture)	х	у	*
04. Aspect Ratio	k	с	0~6
05. Screen Mute	k	d	0~1
06. Volume Mute	k	е	0~1
07. Volume Control	k	f	0 ~ 64
08. Contrast	k	g	0 ~ 64
09. Brightness	k	h	0 ~ 64
10. Colour	k	i	0 ~ 64
11. Tint	k	j	0 ~ 64
12. Sharpness	k	k	0 ~ 64
13. OSD Select	k		0 ~ 1
14. Key Lock	k	m	0 ~ 1
15. Balance	k	t	0 ~ 64
16. Programme Select (Main TV Inpu	ut) m	а	0 ~ 63
17. Programme Select (Sub TV Inpu	t) m	b	0~1
18. Key	m	с	Key Code

*: Refer to '02~03. Input Select' on page 63



Transmission / Receiving Protocol

Transmission

1			
	[Command1][Command2][10-101	10-4-10-1
	ICommand IICommand2II	II Set IDII	IDatailOri
	L	11 11	11

- * [Command 1]: First command. (k, x or m)
- * [Command 2]: Second command.
- * [Set ID]: You can adjust the set ID to choose desired monitor ID number in Special menu. Adjustment range is 1
 99. When selecting Set ID '0', every connected TV set 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 support function
- _
- Error messages
- 1. Illegal ID : If Wrong or no ID in the command is written.
- 2. **B_TokenLength** !=2 : If the first argument of the command does not equals to 2.
- Error ==TOKEN_ERROR : If some Special character or Numeric are written to the first argument of the command or wrong Space position is written to the first argument of the command.
- 4. **Illegal Opcodes** : If the Wrong Alphabet is written to the first argument of the command.
- Illegal Params : If the Wrong parameter is supplied to the end of the command line (means that value of the parameter that is not supported).

01. Power On (Command:a)

To control Power On/Off of the TV.

Transmission

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

Data 0 : Power Off 1 : Power On

<u>Acknowledgement</u>

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

To show Power On/Off.

<u>Transmission</u>

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

<u>Acknowledgement</u>

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

Data 0 : Power Off 1 : Power On

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

To select input source for the TV. You can also select an input source using the INPUT button on the TV's remote control.

Transmission

[x][b][][Set ID][][Data][Cr]	
Data 10 : TV 20 : AV1 21 : AV2 22 : AV3 30 : S-Video 40 : Component	50 or 60 : RGB PC 51 or 61 : RGB DTV 90 : HDMI PC 91 : HDMI DTV

<u>Acknowledgement</u>

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

03. Input Select (Command:y) (Sub Picture Input)

[x][y][][Set ID][][Data][Cr]									
Data 10 : TV 20 : AV1 21 : AV2 22 : AV3 30 : S-Video 40 : Component	50 or 60 : RGB 90 : HDMI								
<u>Acknowledgement</u>									
[y][][Set ID][][OK][Data][x]									

04. Aspect Ratio (Command:c) (Main picture format)

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

<u>Transmission</u>

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

- Data 0 : Normal screen (4:3) 4 : Spectacle 1 : Wide screen (16:9) 5 : Full
 - 6 : Original
 - 2 : 14:9 3 : Zoom

om

* In PC mode only 16:9 and 4:3 aspect ratios are available. <u>Acknowledgement</u>

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

05. Screen Mute (Command:d)

► To select screen mute on/off.

Transmission

[k][d]	[][S	∋t ID][][Data]	[Cr]		
Data	0	:	Scree	n	mute	off	(Picture	on)
	1	÷	Scree	n	mute	on	(Picture	off)

06. Volume Mute (Command:e)

To control volume mute on/off. You can also adjust mute using

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

<u>Transmission</u>

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

Data 0 : Volume mute on (Volume off) 1 : Volume mute off (Volume on)

Acknowledgement

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

07. Volume Control (Command:f)

To adjust volume.

You can also adjust volume with the volume buttons on remote control.

Transmission

[k]	[[f][][Se	t ID][][Data][Cr]	
_						

Data Min: 0 ~ Max: 64 (transmit by Hexadecimal code) • Refer to 'Real data mapping 1' as shown below.

<u>Acknowledgement</u>

[f][][Set ID][][OK][Data][x]

08. Contrast (Command: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 (transmit by Hexadecimal code) • Refer to 'Real data mapping 1' as shown below.

Acknowledgement

[g][][Set ID][][OK][Data][x]

 Real data mapping 1 	
0 :Step 0	
: A : Step 10 :	
F : Step 15	
10 : Step 16	
: 64:Step 100	
* Tint : R50 ~ G50 * Balance : L50 ~ R50	

Reference External Control Device Setup ; RS-232C

09. Brightness (Command:h)

To adjust screen brightness.

You can also adjust brightness in the Picture menu.

Transmission

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

Data Min: 0 ~ Max: 64 (transmit by Hexadecimal code) • Refer to 'Real data mapping 1'. See page 63.

Acknowledgement

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

10. Colour (Command:i)

To adjust the screen colour.

You can also adjust colour in the Picture menu. Transmission

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

Min: 0 ~ Max: 64 (transmit by Hexadecimal code) Data Refer to 'Real data mapping 1'. See page 63.

<u>Acknowledgement</u>

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

11. Tint (Command:j)

To adjust the screen tint.(NTSC M input only) You can also adjust tint in the Picture menu. Transmission

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

Data Min: 0 ~ Max: 64 (transmit by Hexadecimal code) Refer to 'Real data mapping 1'. See page 63.

Acknowledgement

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

12. Sharpness (Command:k)

► To adjust the screen sharpness.

You can also adjust sharpness in the Picture menu. <u>Transmission</u>

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

Data Min: 0 ~ Max: 64 (transmit by Hexadecimal code) Refer to 'Real data mapping 1'. See page 63. Acknowledgement

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

13. OSD Select (Command:I)

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

Transmission

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

Data 0: OSD mute on 1: OSD mute off Acknowledgement

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

14. Key Lock (Command:m)

To lock the front panel controls on the TV. Transmission

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

Data 0: Lock off	1: Lock on
<u>Acknowledgement</u>	

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

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

15. Balance (Command:t)

To adjust balance.

Transmission

[k][t][][Set ID][][Data][Cr]	
<u> </u>		

Data Min: 0 ~ Max: 64 (transmit by Hexadecimal code) • Refer to 'Real data mapping 1'. See page 63.

<u>Acknowledgement</u>

[t][][Set ID][][OK][Data][x]
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16. Programme Select (Command:m a) (Main TV Input)

Tune channel to following Physical/major/minor number.

Transmission

[m][a][][Set ID][][Data0][Cr]

Data0: Programme Number

Min : 0 ~ Max : 63(transmit by Hexadecimal code)

Acknowledgement

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

17. Programme Select (Command:m b) (Sub TV Input)

Tune channel to following Physical/major/minor number.

Transmission

[m][b][][Set ID][][Data 0][Cr]

Data0: Programme Number Min: 0 ~ Max: 63(transmit by Hexadecimal code)

Acknowledgement

[b][][Set ID][][OK][Data0][x]
[b][][Set ID][][OK][Data0][x]][NG][Data0][x]

18. Key (Command:m c)

To send IR remote key code.

Transmission

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

Data: Key code (Refer to P.60)

Acknowledgement

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