



# LCD TV

## OWNER'S MANUAL

MODELS: 32LP1DA | 37LP1DA



**DVB**<sup>®</sup>  
Digital Video  
Broadcasting

*Trade Mark of the DVB Digital Video  
Broadcasting Project (1991 to 1996)*

ID Number(s): 3549: 32LP1DA  
3550: 37LP1DA

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

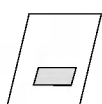
Retain it for future reference.

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 : 3828TUL331B (0509-REV01)  
Printed in Korea

## Accessories

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



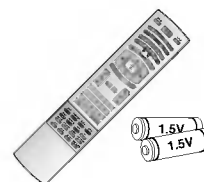
Owner's Manual



Twister Holder  
Arrange the wires  
with the twister holder.



Polishing Cloth  
Polish the screen with the cloth.



Remote Control /  
Batteries



Power Cord



DVI-D Cable



D sub to DVI Cable



PC Sound Cable

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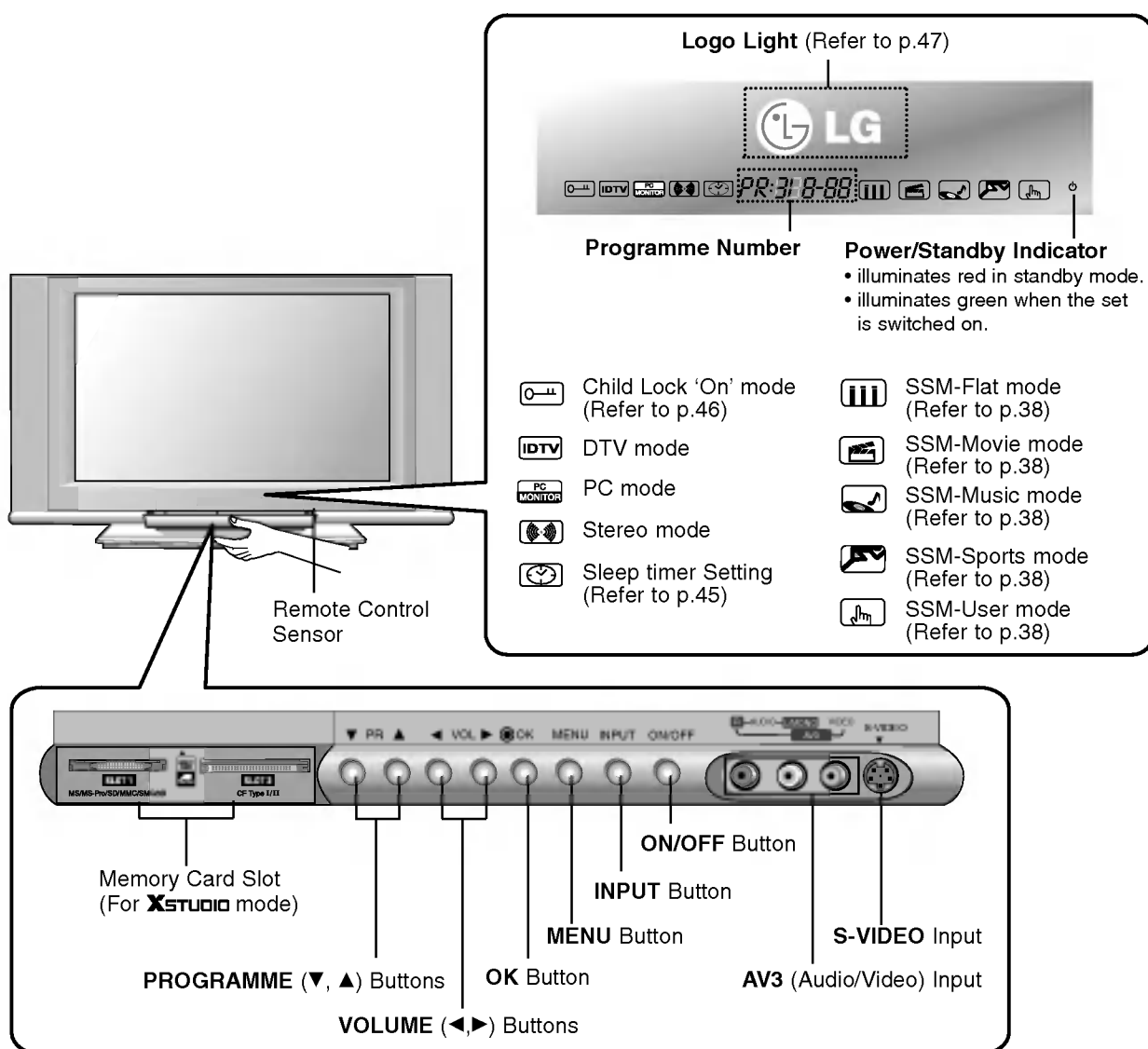
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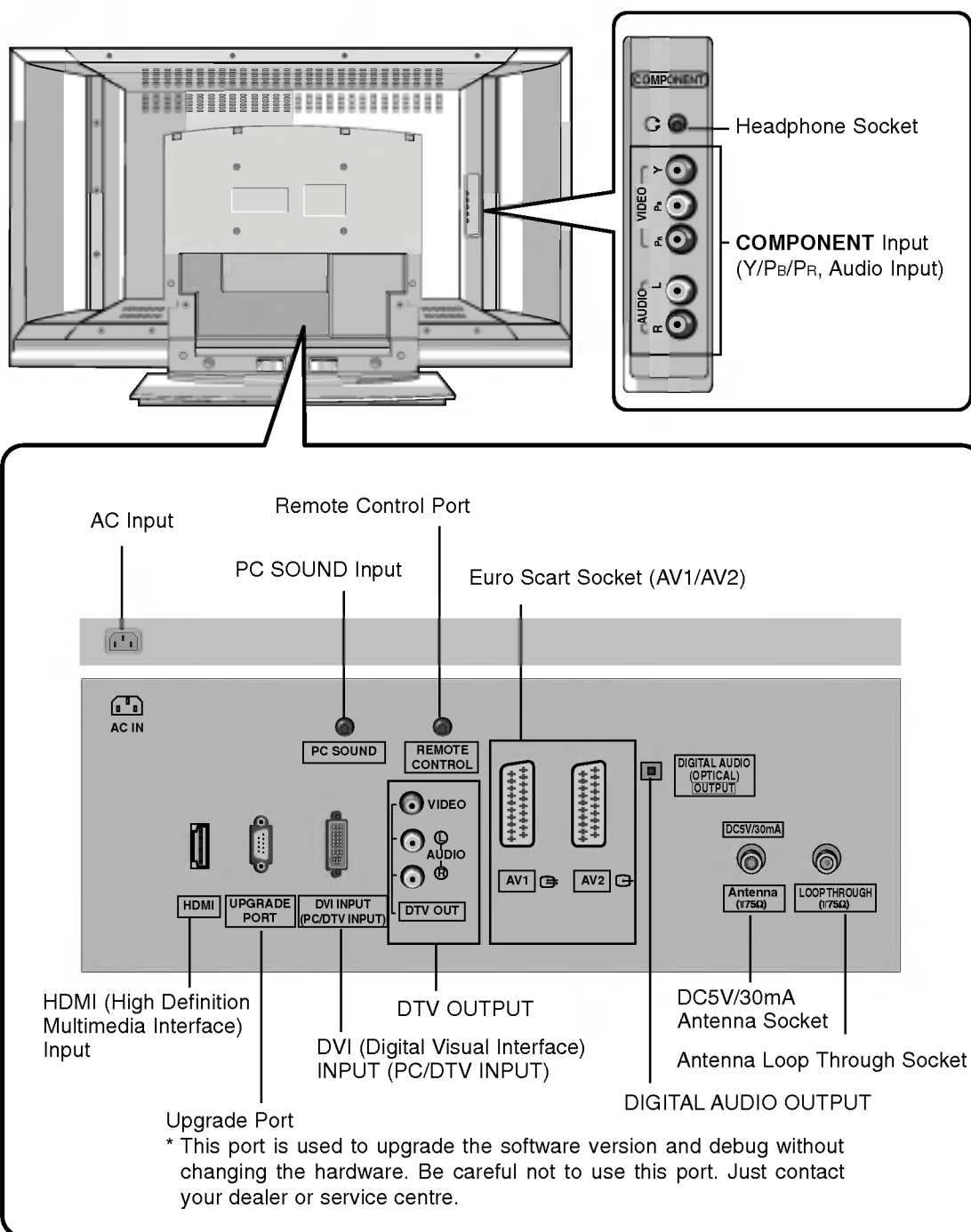
# Introduction

## Controls

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



## Connection Options



# Remote Control Key Functions



## POWER

Switches the set between ON or OFF to STANDBY.

## D/A TV (Digital TV / Analogue TV)

Selects digital or analogue mode.

## INPUT



If you press the button once, the input source OSD will appear on screen as shown. Press the **▲ / ▼** button and then **OK** button to select the desired input source (**DTV**, **TV**, **AV1/2/3**, **S-Video**, **Component**, **DVI PC**, **DVI DTV**, or **HDMI**).

## LIGHT

Illuminates the remote control buttons.

## MODE (TV, DVD, VCR)

Selects the remote operating mode: TV, VCR, DVD. Select other operating modes, for the remote to operate external devices.

## GUIDE (Refer to p.56)

Shows programme schedule.

## M/C EJECT (Refer to p.61)

When removing the memory card, this button is used.

## VCR / XSTUDIO Mode Control BUTTONS (Refer to p.61~70)

Controls a LG video cassette recorder.

Controls the **XSTUDIO** Mode.

For further details, see the '**XSTUDIO** Mode' section.

## MENU

Selects a menu.

## XSTUDIO

Enter to the **XSTUDIO** mode.

## EXIT

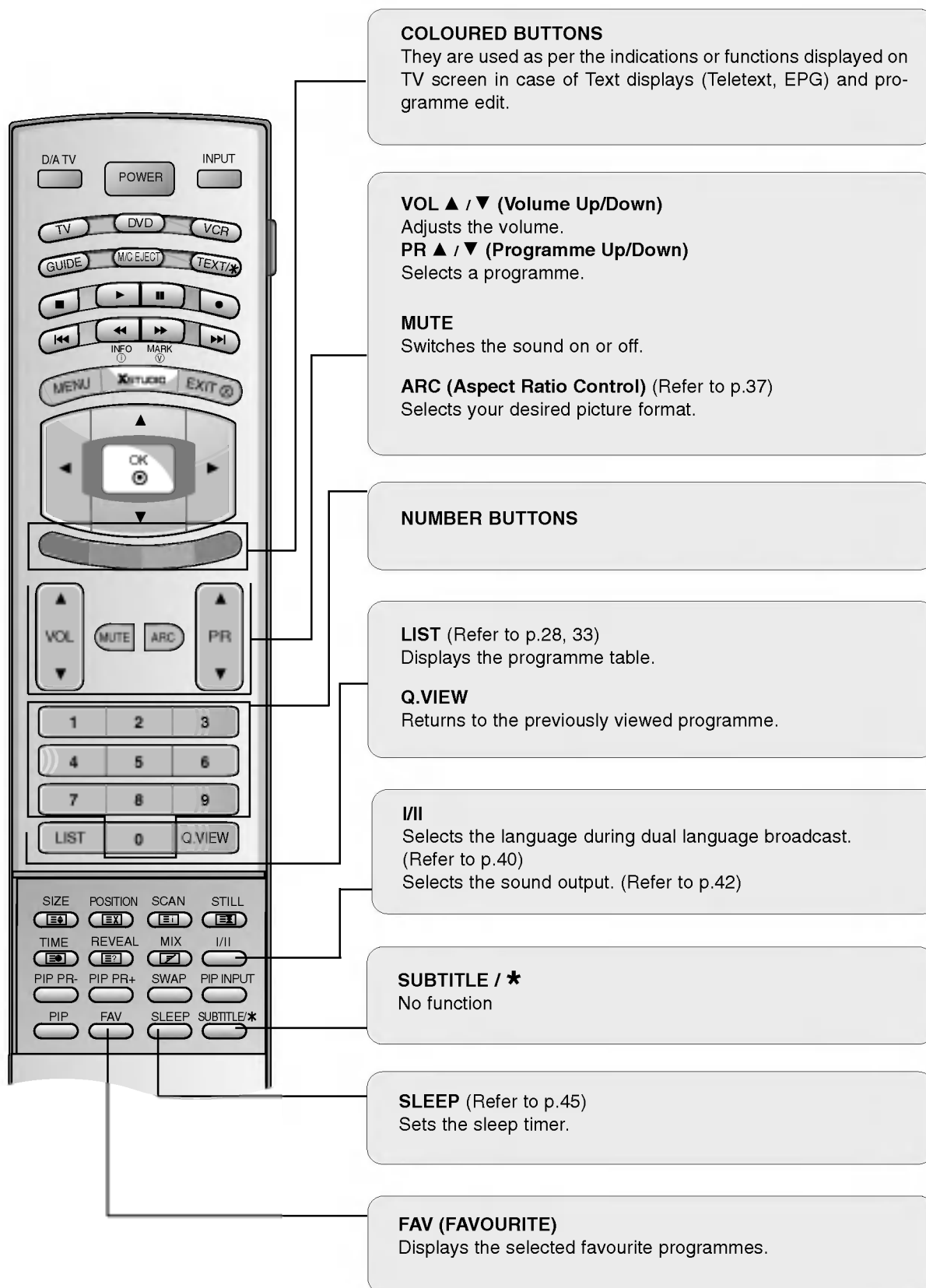
Returns to TV viewing from any menu.

## OK

Accepts your selection or displays the current mode.

## ▲ / ▼ / ◀ / ▶

Selects or adjusts an item in the menu.





**TELETEXT BUTTONS**

These buttons are used for teletext.

\* For further details, see the 'Teletext' section. (Refer to p.54~55)

**SIZE** (Refer to p.51)

Adjusts the sub picture size.

**POSITION** (Refer to p.52)

Moves the sub picture position.

**SCAN** (Refer to p.53)

Switches on the programme scan mode.

**STILL** (Refer to p.50)

Freezes the currently-viewing picture. The sub picture is frozen in PIP/DW mode.

**PIP PR +/-** (Refer to p.50)

Selects a programme for the sub picture.

**SWAP** (Refer to p.52)

Alternates between main and sub picture.

**PIP INPUT** (Refer to p.51)

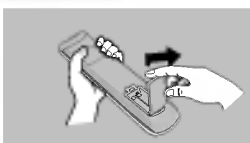
Selects the input mode for the sub picture.

**PIP** (Refer to p.50)

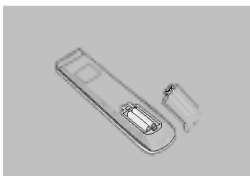
Switches the sub picture PIP, DW, POP or off mode.

## Installing Batteries

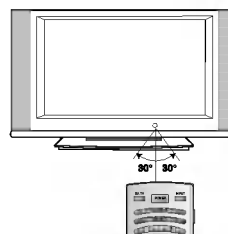
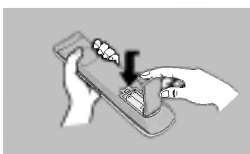
- 1** Open the battery compartment cover on the back side.



- 2** Insert two 1.5V batteries in correct polarity (+ with +, - with -). Don't mix old or used batteries with new ones.



- 3** Close the cover.



\* Use a remote control 7 meter distance and 30 degree (left/right) within the receiving unit scope.

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



### Brief Info. (In Digital mode only)

- Show the present screen information.
- Press the **INFO** or **EXIT** button to exit.

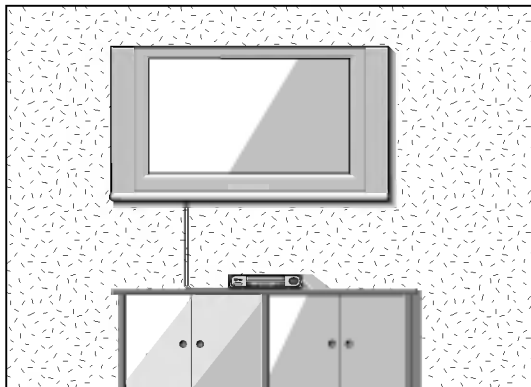


Remote Control Buttons	Function
◀ / ▶	Select NOW or NEXT programme
▲ / ▼	The detail information on or off

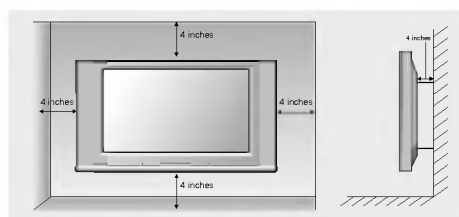
# Installation

## Various Installation

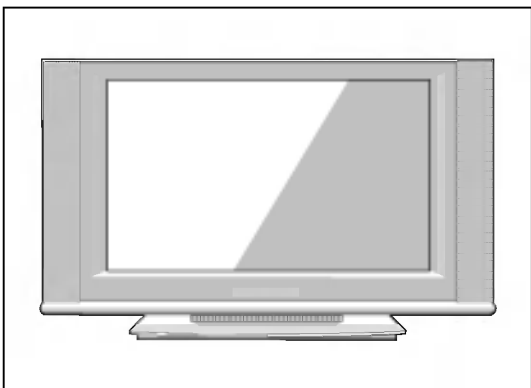
### Wall Mount: Horizontal installation



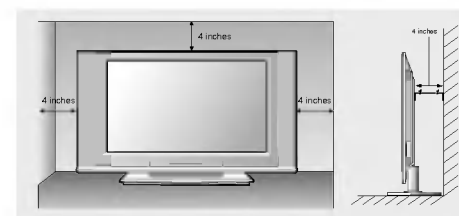
For proper ventilation, allow a clearance of 4" on each side and from the wall. Detailed installation instructions are available from your dealer, see the optional Tilt Wall Mounting Bracket Installation and Setup Guide.



### Desktop Pedestal Installation

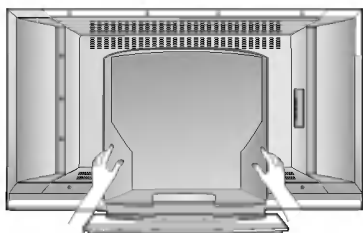


For proper ventilation, allow a clearance of 4" on each side and from the wall.

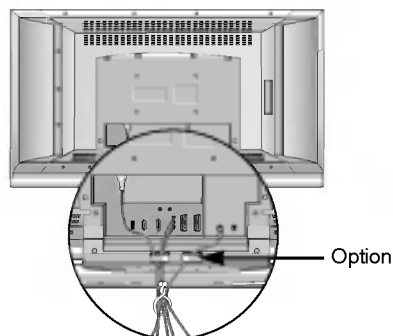


## How to use back cover

- 1** Hold the cover with both hands and pull it backward.

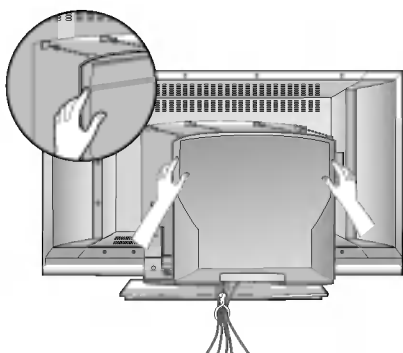


- 2** Install wires as necessary.  
(To install various wires, refer to p.13~21.)

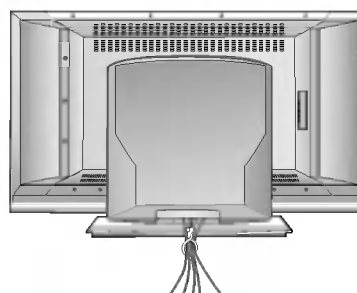


\* Arrange the signal input cable and the power cord by holder, as shown.

- 3** Align the holes on the TV back panel with the four protuberance on the back cover and insert.



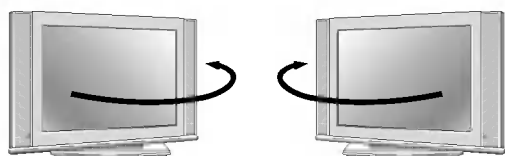
- 4** Reinstall the cover.



### Wire Arrangement

- Pull the cables through the hole on the set.

## Swivel Stand



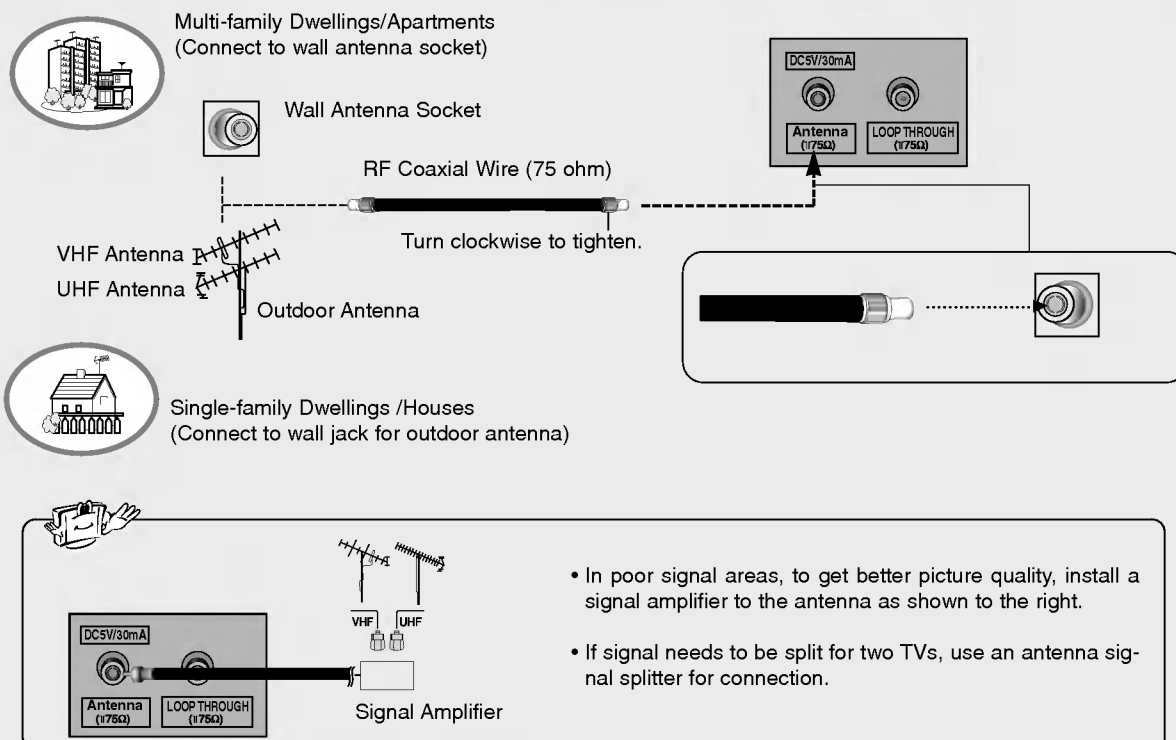
- The TV can be conveniently swivelled on its stand 30° to the left or right to provide the optimum viewing angle.

# External Equipment Connections

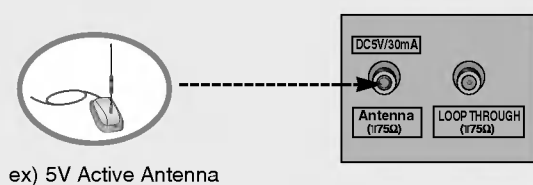
## Antenna Connection

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

### When connecting with an antenna



### When connecting with an active antenna

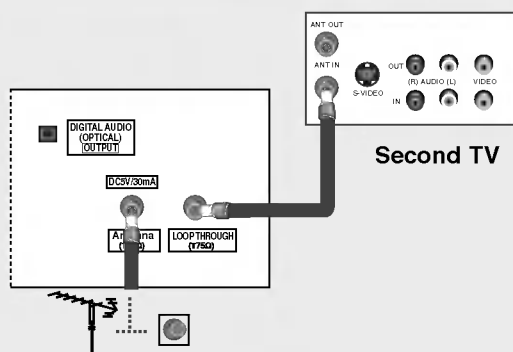


#### Note

- When using the 5V active antenna, please turn the TV's 5V antenna power on to avoid a damage of set. (See page 27)
- At this time, don't use 75 ohm antenna.

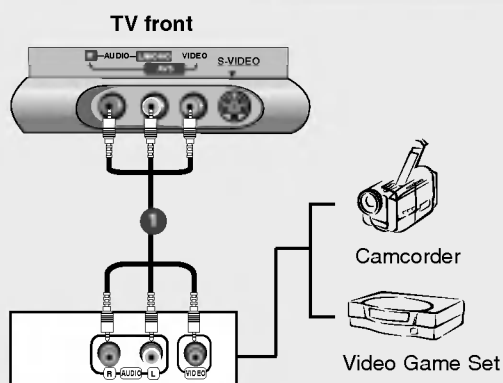
## How to use antenna loop through socket

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



- 1 Connect the wall antenna socket or outdoor antenna to the TV's **Antenna** socket.
- 2 Connect a second TV's antenna socket to the TV's **LOOP THROUGH** socket.

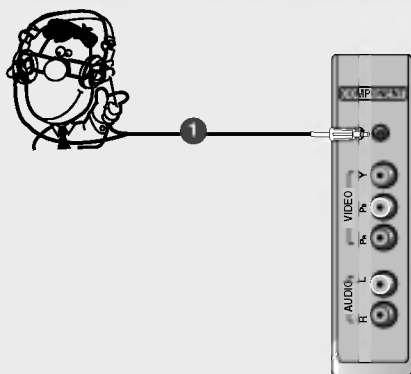
## External AV Source Setup



- 1 Connect the **AUDIO/VIDEO** jacks between TV and external equipment. Match the jack colours (Video = yellow, Audio Left = white, and Audio Right = red).
- 2 Select **AV3** input source with using the **INPUT** button on the remote control.
- 3 Operate the corresponding external equipment. Refer to external equipment operating guide.

## Headphone Socket

- You can listen to the sound through the headphone.



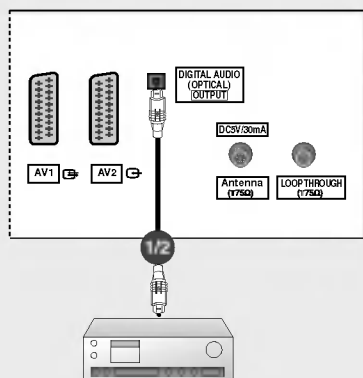
- 1 Plug the headphone into the headphone socket.
- 2 To adjust the headphone volume, press the **VOL** ▲ / ▼ button. If you press the **MUTE** button, the sound from the headphone is switched off.



- While you are listening to sound through a headphone, TV speakers will not be heard.

## Digital Audio Output

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



- 1 Connect one end of an optical cable to the TV Digital Audio Optical Output port.
- 2 Connect the other end of the optical cable to the digital audio optical input on the audio equipment.
- 3 See the external audio equipment instruction manual for operation. When connecting with external audio equipments, such as amplifiers or speakers, please select the **Dolby Digital**. (Refer to p.40)

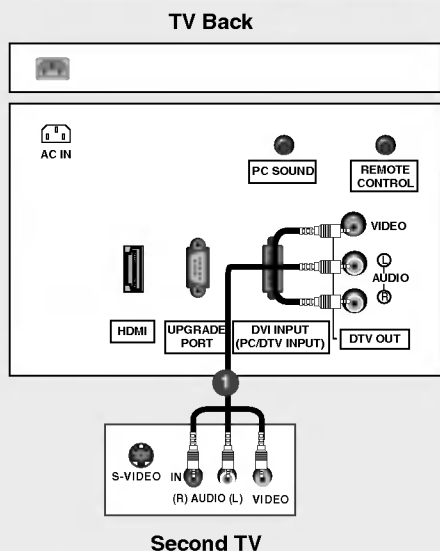


### CAUTION

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

## Picture Out Setup

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



- 1 Connect the second TV or monitor to the TV's **DTV OUT** jacks.
- 2 See the Operating Manual of the second TV or monitor for further details regarding that device's input settings.



- It's possible to output other signal with Euro scart socket.

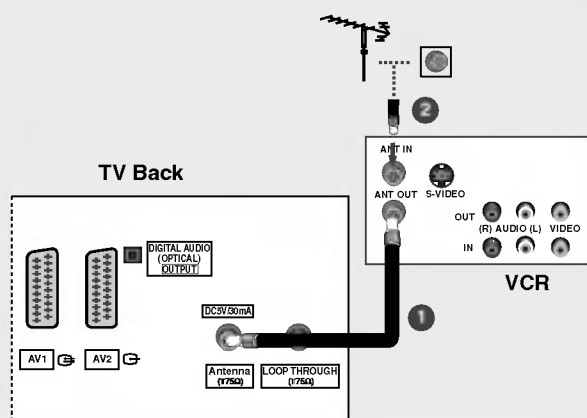
Picture Out Jack	Available Picture Out Signal
DTV OUT Jacks	DTV
AV1 Euro Scart	TV
AV2 Euro Scart	Current viewing Input Source DTV (Refer to p.36)

**NOTE:** All cables shown are not included with the TV.

## VCR Setup

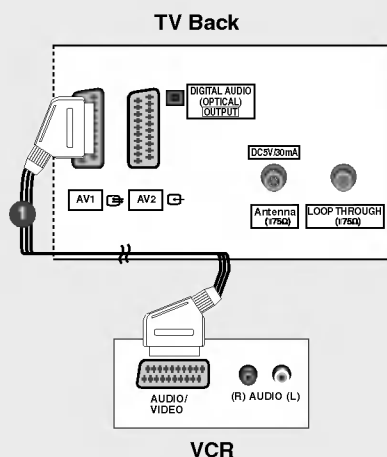
- To avoid picture noise (interference), leave an adequate distance between the VCR and TV.
- Typically a frozen still picture from a VCR appears. If the 4:3 picture format is used; the fixed images on the sides of the screen may remain visible on the screen.

### When connecting with an antenna



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

### When connecting with a Euro Scart



\* Please use the shield scart cable.

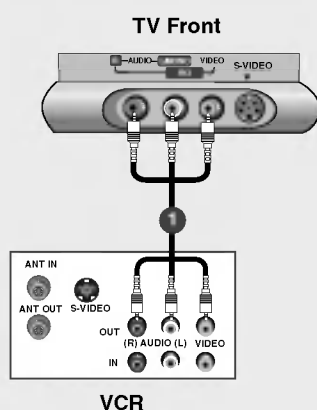
- 1 Connect the Euro scart socket of the VCR to the **AV1** Euro scart socket on the set.
- 2 Insert a video tape into the VCR and press **PLAY** on the VCR. (Refer to the VCR owner's manual.)
- 3 Select **AV1** input source with using the **INPUT** button on the remote control.
  - If connected to **AV2** Euro scart socket, select **AV2** input source.



- If your VCR outputs an AV switching signal via the **AV1** or **AV2** Euro scart sockets, the set will switch to **AV1** input source automatically. But if you want to keep on watching TV mode, press the **PR** ▲ / ▼ or number buttons.
- You can also record programmes received by the TV on video tape.
- The signal type RGB (the signals red, green and blue) can only be selected for the **AV1** Euro scart socket and the **AV1** input source can be received. These signals are transmitted, for example, by a pay TV decoder, game machine or photo CD unit, etc and that digital signal can be recorded via **AV1** Euro scart socket.
- If the **AV1, 2** Euro scart sockets have been connected to the VCRs simultaneously, only the **AV2** input source can be received.



### When connecting with a RCA cable

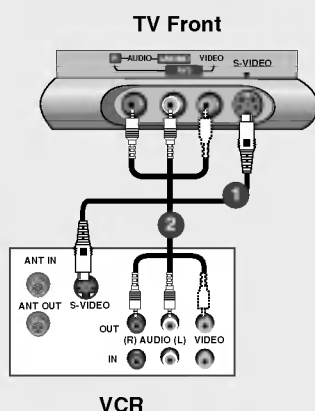


- 1 Connect the **AUDIO/VIDEO** jacks between TV and VCR. Match the jack colours (Video = yellow, Audio Left = white, and Audio Right = red)
- 2 Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
- 3 Select **AV3** input source with using the **INPUT** button on the remote control.



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

### When connecting with an S-Video cable



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

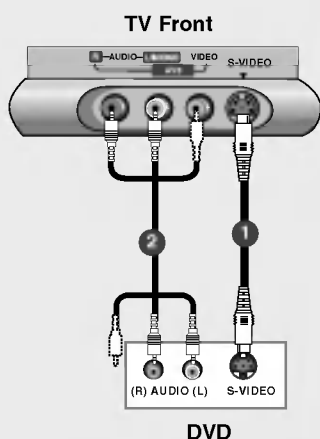


Do not connect to both Video and S-Video at the same time.

**NOTE:** All cables shown are not included with the TV.

## DVD Setup

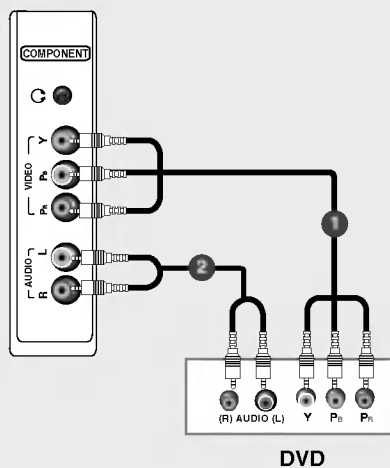
### When connecting with a S-Video cable



- 1 Connect the S-VIDEO output of the DVD to the **S-VIDEO** input on the set.
- 2 Connect the audio outputs of the DVD to the **AUDIO** input jacks on the set.
- 3 Turn on the DVD player, insert a DVD.
- 4 Select **S-Video** input source with using the **INPUT** button on the remote control.
- 5 Refer to the DVD player's manual for operating instructions.

### When connecting with a component cable

TV Side



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

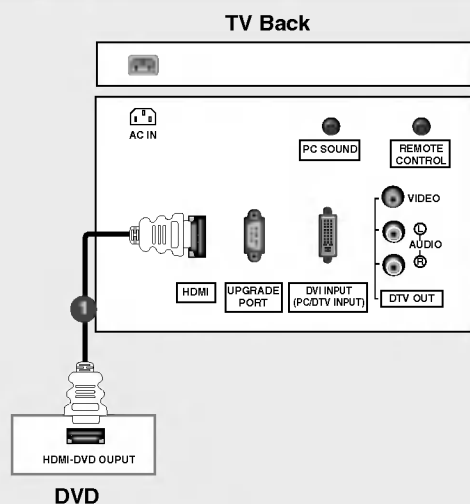


#### • Component Input ports

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

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

### When connecting with a HDMI cable

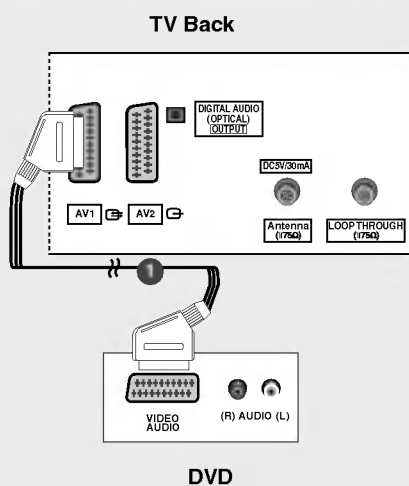


- ❶ Connect the HDMI output of the DVD to the **HDMI** jack on the set.
- ❷ Select **HDMI** input source with using the **INPUT** button on the remote control.
- ❸ Refer to the DVD player's manual for operating instructions.



- TV can receive the video and audio signal simultaneously with using a HDMI cable.

### When connecting with a Euro scart



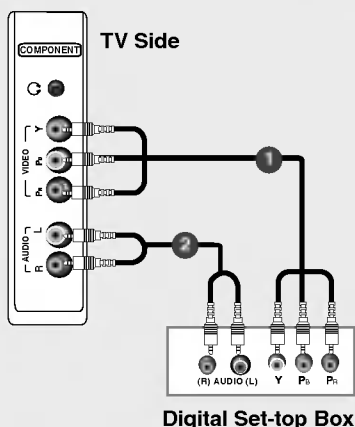
- ❶ Connect the Euro scart socket of the DVD to the **AV1** Euro scart socket on the set.
- ❷ Turn on the DVD player, insert a DVD.
- ❸ Select **AV1** input source with using the **INPUT** button on the remote control.  
- If connected to **AV2** Euro scart socket, select **AV2** input source.

\* Please use the shield scart cable.

## HDSTB Setup

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

### When connecting with a component cable

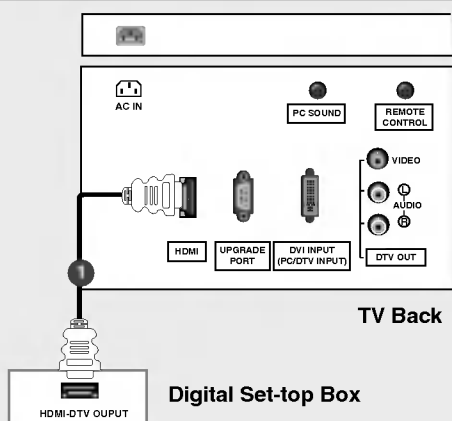


- 1 Connect the video outputs (Y, PB, PR) of the digital set-top box to the **COMPONENT VIDEO (Y, PB, PR)** jacks on the set.
- 2 Connect the audio outputs of the digital set-top box to the **COMPONENT AUDIO** jacks on the set.
- 3 Turn on the digital set-top box. (Refer to the owner's manual for the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



Signal	Component	DTV
480i/576i	Yes	No
480p/720p/1080i	Yes	Yes

### When connecting with a HDMI cable



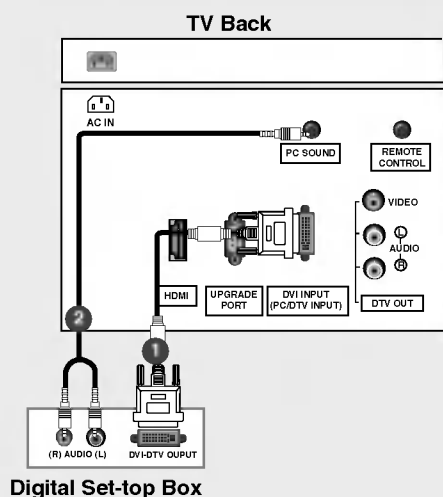
- 1 Connect the HDMI output of the digital set-top box to the **HDMI** jack on the set.
- 2 Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
- 3 Select **HDMI** input source with using the **INPUT** button on the remote control.

Signal	HDMI
480p/576p/720p/1080i	Yes



- TV can receive the video and audio signal simultaneously with using a HDMI cable

### When connecting with a DVI cable



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

Signal	DVI
480p/576p/720p/1080i	Yes

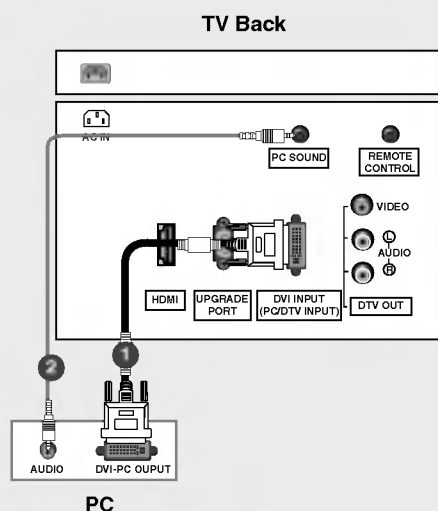


- It's impossible to receive the RGB-DTV input source via **DVI INPUT** jack.

## PC Setup

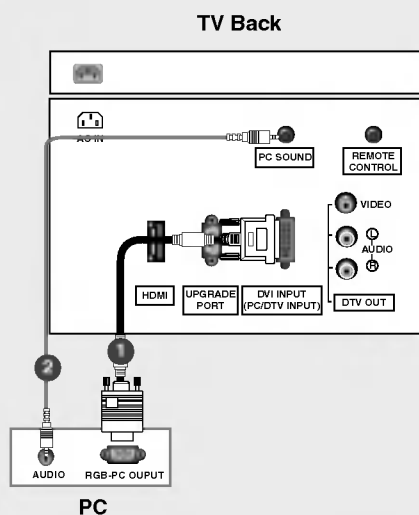
- This TV provides Plug and Play capability, meaning that the PC adjusts automatically to the TV's settings. The TV sends configuration information (EDID) to the PC using the Video Electronics Standard Association (VESA) Display Data Channel (DDC) protocol.

### When connecting with a DVI cable



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

### When connecting with a D-sub to DVI cable



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



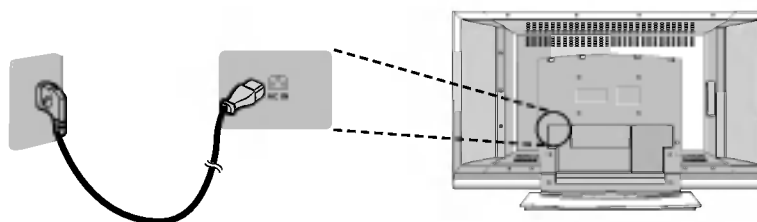
1. To get the best picture quality, adjust the PC graphics card to 1024x768, 60Hz.
  2. If using a sound card, adjust the PC sound as required.
  3. Check the image on your TV. There may be noise associated with the resolution, vertical pattern, contrast or brightness in PC mode. If noise is present, change the PC mode to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on the menu until the picture is clear. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult the manufacturer of the PC graphic card.
  4. Avoid keeping a fixed image on the TV's screen for a long period of time. The fixed image may become permanently imprinted on the screen.
  5. 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.

### Monitor Display Specifications

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
720x400	31.469KHz	70.08Hz
640x480	31.469KHz	59.94Hz
	37.861KHz	72.80Hz
	37.500KHz	75.00Hz
800x600	35.156KHz	56.25Hz
	37.879KHz	60.31Hz
	48.077KHz	72.18Hz
	46.875KHz	75.00Hz
1024x768	48.363KHz	60.00Hz
	56.476KHz	70.06Hz
	60.023KHz	75.02Hz
1280x768	47.693KHz	60.00Hz
1360x768	49.020KHz	60.00Hz

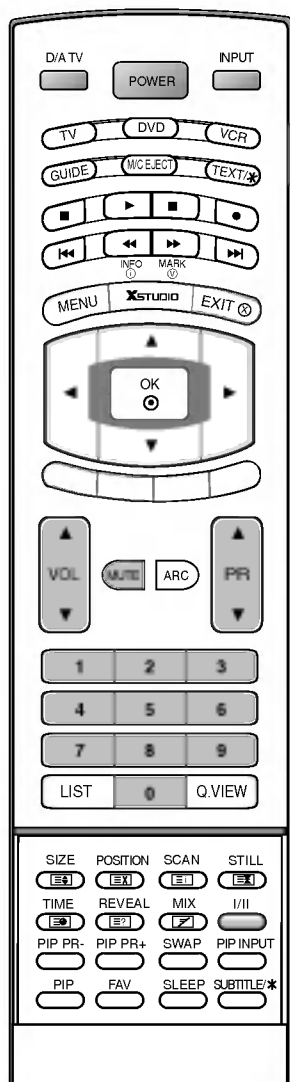
### Power Cord Connection

- Connect the power cord correctly as shown.



# Operation

## Basic operation



### Turning on the TV

- 1 Connect the power cord correctly. Now, the TV is switched to standby mode.
- 2 Press the **ON/OFF**, **INPUT**, **PR ▲ / ▼** button on the TV or press the **POWER**, **INPUT**, **D/V TV**, **PR ▲ / ▼**, **Number (0 ~ 9)** button on the remote control and then the TV will switch on.

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

### Initializing Setup



- 1 You can see this OSD (On Screen Display) when turning the TV on at first after purchasing it.
- 2 If the OSD (On Screen Display) is displayed on the screen as figure after turning on the set, the Auto Programme for the Analog TV and Digital TV is tuned automatically.  
**Note:** It will automatically disappear after approx. 140 seconds unless any button is pressed.

### Volume Adjustment

- 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 ▲ / ▼**, or **I/II** button.

### Programme Selection

- 1 Press the **PR ▲ / ▼** or **NUMBER** buttons to select a programme number.









### On Screen Language Selection

- The menu can be displayed on the screen in your desired language. First select your language.

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **SPECIAL** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **Menu language**.
- 3 Press the **▶** button and then the **▲ / ▼** button to select your desired language. All the on screen displays will appear in the selected language.
- 4 Press the **MENU** button to save.

### How to adjust the OSD screen

- 1 Press the **MENU** button and then **▲ / ▼** button to select each menu.
- 2 Press the **▶** button and then use **▲ / ▼ / ◀ / ▶** button to display the available menus.  
Note: The OSD display differs from DTV mode and analog mode. Refer to below figure.

Menu ICON	Sub Menu Function	
	DTV mode	Analog TV mode
 <b>SETUP</b>	Auto programme Manual programme Programme edit 5V antenna power System information	Auto programme Manual programme Programme edit Favourite programme
 <b>PICTURE</b>	PSM CSM <b>XD</b> AV2 Out	
 <b>SOUND</b>	SSM Balance AVL  SRS WOW Digital audio out Audio language	SSM Balance AVL  SRS WOW
 <b>TIME</b>	Clock Time zone Off time On time Auto sleep Sleep timer	
 <b>SPECIAL</b>	Menu language Lock system Child lock Logo light Factory reset	
 <b>SCREEN</b>	<b>DVI mode</b> Position Clock Phase Auto configure WXGA	



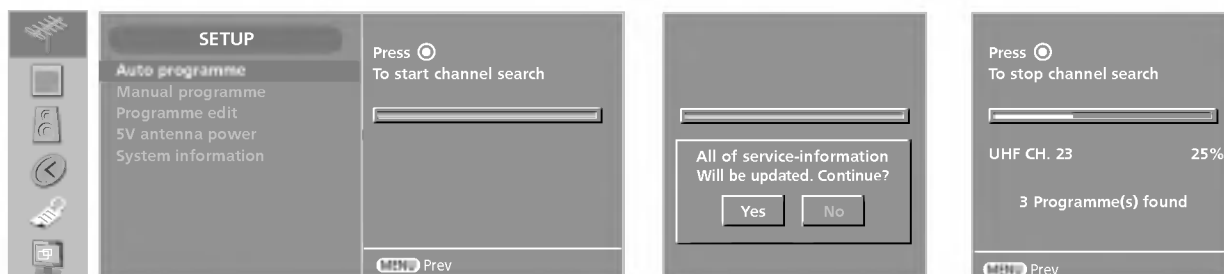
- The OSD (On Screen Display) function enables you to adjust the screen status conveniently since it provides graphical presentation.
- In this manual, the OSD (On Screen Display) may be different from your TV's because it is just example to help the TV operation.





## Setup Menu Options (In Digital Mode)

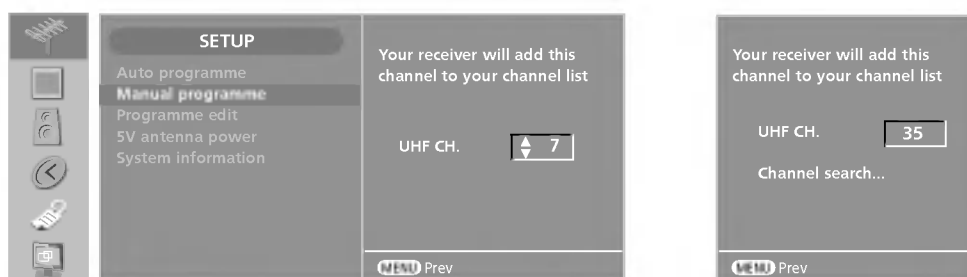
### Auto Programme Tuning



- Use it to automatically find and store all of the programmes.
- When you start auto programming in digital mode, all the stored service information will be deleted.
- A password is required to gain access to Auto programme menu if the **Lock system** is turned on.

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **SETUP** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **Auto programme**.
- 3 Press the **▶** button and then **OK** button to begin auto programming. The message “**All of service-information will be updated. Continue?**” will appear. If you want to keep on auto programming, select **YES** with using the **◀ / ▶** button. Then, press the **OK** button. Otherwise select **NO**. To stop auto programming, press the **OK** button. Press the **◀ / ▶** button to select **YES**. Then, press the **OK** button.
- 4 Press the **EXIT** button to return to normal TV viewing.

### Manual Programme Tuning

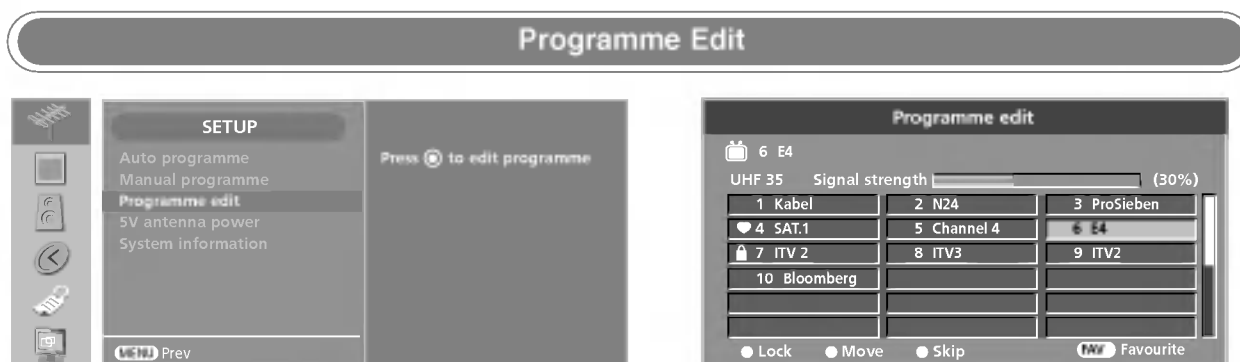


- Manual programme lets you manually add a programme to your programme list.

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **SETUP** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **Manual programme**.
- 3 Press the **▶** button and then **▲ / ▼** button to select the channel number you want to add.
- 4 Press the **OK** button to save. When the channel number you want to add is already added in programme list, the message “**Service-information of this channel will be updated. Continue?**” will appear. If you want to keep on manual programming, select **YES** with using the **◀ / ▶** button. Then, press the **OK** button. Otherwise select **NO**.
- 5 Press the **EXIT** button to return to normal TV viewing.



## Setup Menu Options continued (In Digital Mode)



- This function enables you to lock or skip the stored programmes. Also you can move some station to other programme numbers or set favourite programmes.

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **SETUP** menu.
- 2 Press the **►** button and then **▲ / ▼** button to select **Programme edit**.
- 3 Press the **►** button to enter the **Programme edit** menu.

### ■ Locking a programme (Only Lock system set to On)

1. Select a programme to be locked with the **▲ / ▼ / ◀ / ▶** button.
2. Press the **GREEN** button. The lock mark will appear in front of that programme number.
3. Press the **GREEN** button again to release this function.

- To watch a locked programme, input a 4-digit password in Lock system. Be sure to remember this number.
- If you forgot your password, press '7', '7', '7', '7' on the remote control.
- If you select other programme after releasing a locked programme and then return to the locked programme within 1 minute, it's unnecessary to input a password to see the locked programme.

### ■ Moving a programme

1. Select a programme to be moved with **▲ / ▼ / ◀ / ▶** button.
2. Press the **YELLOW** button.
3. Move the programme to the desired programme number with the **▲ / ▼ / ◀ / ▶** button.
4. Press the **YELLOW** button again to release this function.

### ■ Skipping a programme number

1. Select a programme number to be skipped with **▲ / ▼ / ◀ / ▶** button.
2. Press the **BLUE** button. The skipped programme number turns to gray.
3. Press the **BLUE** button again to release the skipped programme.
4. When a programme number is skipped it means that you will be unable to select it using the **PR ▲ / ▼** button during normal TV viewing. If you want to select the skipped programme, directly enter the programme number with the **NUMBER** buttons or select it in the programme edit or table menu.

### ■ Selecting Favourite Programme

1. Select your favourite programme number with **▲ / ▼ / ◀ / ▶** button.
2. Press the **FAV** button. The selected programme will be added to the favourite programme list and heart-mark will appear in front of that programme number.

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

#### Mini Glossary



Displayed when the TV Programme.

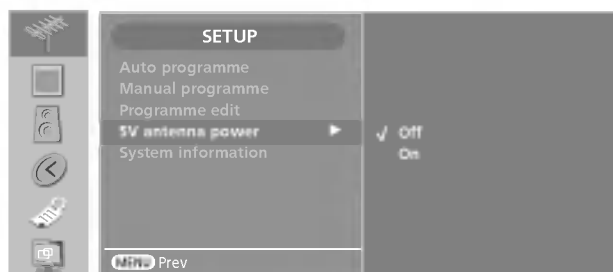


Displayed when the RADIO Programme.



Displayed when the Teletext Programme.

## 5V Antenna Power

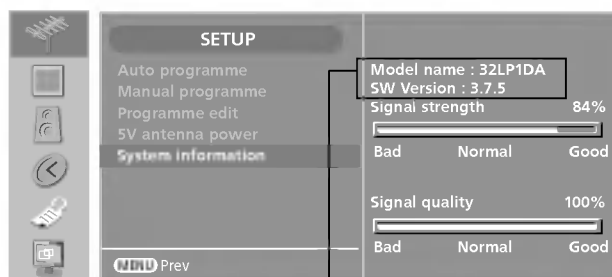


- If the set is shorted in **5V antenna power-On**, it will automatically change to **Off** to avoid a damage of the set.
- 5V Antenna power connection maybe occurs unexpected problem with an external equipment.
- Even if there is no a special 5V adapter power in the external antenna, this function can output 5V in the set.

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **SETUP** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **5V antenna power**.
- 3 Press the **▶** button and then **▲ / ▼** button to select **Off** or **On**.
- 4 Press the **EXIT** button to return to normal TV viewing.

## System Information

- Shows how strong your DTV signal is.
- The higher the signal strength and quality, the less likely you are to experience picture degradation.
- If signal strength and quality is weak, check the RF cable or antenna direction.



• 37 inch: 37LP1DA

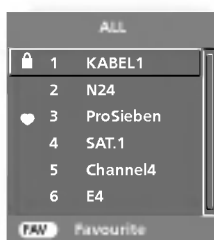
\* This OSD is only for illustration and the options are different according to the models.

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **SETUP** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **System information**. You can see the model name, Software version, and signal strength on screen.
- 3 Press the **EXIT** button to return to normal TV viewing.



## Setup Menu Options continued (In Digital Mode)

### Programme List



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

#### ■ Displaying programme LIST

Press the **LIST** button to display the Programme table menu. The programme table appears on the screen.



#### ■ Selecting a programme in the programme list

Select a programme with the **▲ / ▼** button.  
Press the **OK** button. The set switches to the chosen programme number.

#### ■ Displaying favourite programme

Press the **FAV** button to display the favourite programme list.  
Press the **LIST** button to return to normal TV viewing.



## Setup Menu Options (In Analogue Mode)

### Auto Programme Tuning



- 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 **PR** ▲ / ▼ or **NUMBER** buttons to scan the stations you have programmed. Stations can be tuned using automatic or manual modes.

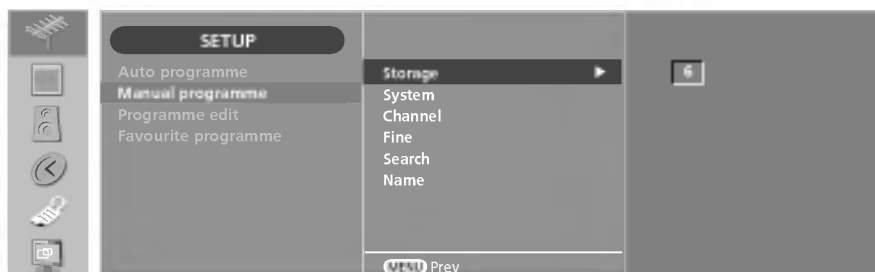
- All stations that can be received are stored by this method. It is recommended that you use auto programme during installation of this set.

- 1 Press the **MENU** button and then ▲ / ▼ button to select the **SETUP** menu.
- 2 Press the ► button and then ▲ / ▼ button to select **Auto programme**.
- 3 Press the ► button and then ▲ / ▼ button to select **System**.
- 4 Press the ► button and then ▲ / ▼ button to select a TV system:  
**BG**: PAL B/G, SECAM B/G (Europe / East Europe / Asia / New Zealand / M.East / Africa)  
**I** : PAL I/II (U.K. / Ireland / Hong Kong / South Africa)  
**DK**: PAL D/K, SECAM D/K (East Europe / China / Africa / CIS)  
**L** : SECAM L/L'
- 5 Press the **OK** button and then ▲ / ▼ button to select **Storage from**.
- 6 Press the ► button.
- 7 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.
- 8 Press the **OK** button and then ▲ / ▼ button to select **Search**.
- 9 Press the **OK** 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 list** menu appears on the screen. See the 'Programme edit' section to edit the stored programme.
- 10 Press the **EXIT** button to return to normal TV viewing.



## Setup Menu Options continued (In Analogue Mode)

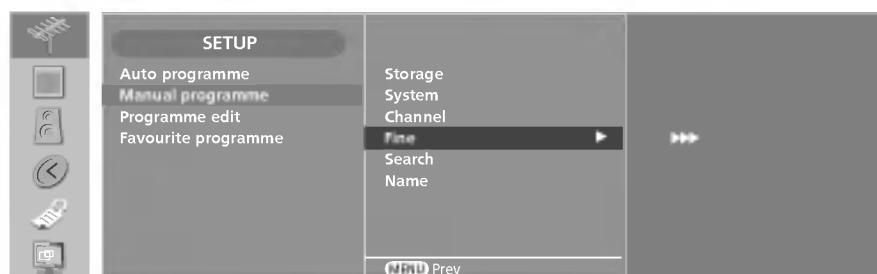
### Manual Programme Tuning



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

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **SETUP** menu.
- 2 Press the **►** button and then **▲ / ▼** button to select **Manual programme**.
- 3 Press the **►** button and then **▲ / ▼** button to select **Storage**.
- 4 Press the **►** button.
- 5 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.
- 6 Press the **OK** button and then **▲ / ▼** button to select **System**.
- 7 Press the **►** button and then **▲ / ▼** button to select a TV system:  
**BG** : PAL B/G, SECAM B/G (Europe / East Europe / Asia / New Zealand / M.East / Africa)  
**I** : PAL I/II (U.K. / Ireland / Hong Kong / South Africa)  
**DK** : PAL D/K, SECAM D/K (East Europe / China / Africa / CIS)  
**L** : SECAM L/L'
- 8 Press the **OK** button and then **▲ / ▼** button to select **Channel**.
- 9 Press the **►** button and then **▲ / ▼** button to select **V/UHF** or **Cable**.
- 10 Press the **►** button and then select the channel number directly with the 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 **OK** button and then **▲ / ▼** button to select **Search**.
- 12 Press the **►** button and then **◀ / ▶** button to commence searching. If a station is found the search will stop.
- 13 To store another station, repeat steps 3 to 12.

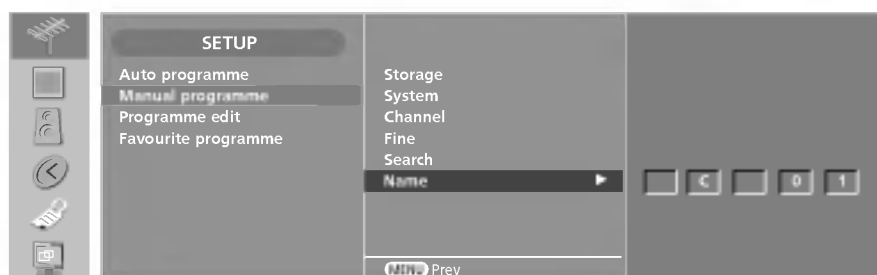
## Fine Tuning



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

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **SETUP** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **Manual programme**.
- 3 Press the **▶** button and then **▲ / ▼** button to select **Fine**.
- 4 Press the **▶** button and then **◀ / ▶** button 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.

## Assigning a Station Name



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

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **SETUP** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **Manual programme**.
- 3 Press the **▶** button and then **▲ / ▼** button to select **Name**.
- 4 Press the **▶** button and then **▲ / ▼** button. You can use the alphabet **A** to **Z**, the number **0** to **9**, **+/ -**, and blank.
- 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.



## Setup Menu Options continued (In Analogue Mode)



- 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.

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **SETUP** menu.
- 2 Press the **►** button and then **▲ / ▼** button to select **Programme edit**.
- 3 Press the **►** button.

### ■ Deleting a programme

1. Select a programme to be deleted with the **▲ / ▼ / ◀ / ▶** button.
2. 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 **▲ / ▼ / ◀ / ▶** 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 **▲ / ▼ / ◀ / ▶** button.
2. Press the **YELLOW** button.
3. Move the programme to the desired programme number with the **▲ / ▼ / ◀ / ▶** button.
4. Press the **YELLOW** button again to release this function.

### ■ Skipping a programme number

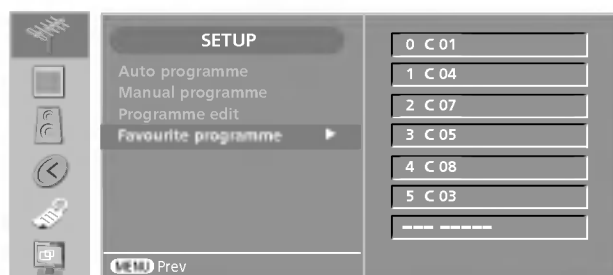
1. Select a programme number to be skipped with **▲ / ▼ / ◀ / ▶** button.
2. Press the **BLUE** button. The skipped programme number turns to blue.
3. Press the **BLUE** button to release the skipped programme.  
When a programme number is skipped it means that you will be unable to select it using the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

### ■ Selecting Favourite Programme

1. Select your favourite programme number with **▲ / ▼ / ◀ / ▶** button.
2. Press the **FAV** button. The selected programme will be added to the favourite programme list and heart-mark will appear in back of that programme number.



## Favourite Programme



- This function lets you select your favourite programmes directly.

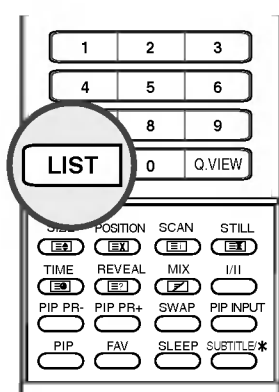
- Repeatedly press the **FAV** button to select stored favourite programmes.

- 1 Press the **MENU** button and then **▲** / **▼** button to select the **SETUP** menu.
- 2 Press the **▶** button and then **▲** / **▼** button to select **Favourite programme**.
- 3 Press the **▶** button and then **▲** / **▼** button to select --- ----.
- 4 Select a desired programme with the **◀** / **▶** button or **NUMBER** buttons. Any number under 10 is entered with a numeric '0' in front of it, i.e. '05' for 5.
- 5 To store another programme, repeat steps 3 to 4. You can store up to 7 programmes.
- 6 Press the **EXIT** button to return to normal TV viewing.

## Calling the Programme Table

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

Programme List			
0 C 01 ♥	1 C 03 ♥	2 C 06 ♥	3 C 07 ♥
4 C 01	5 C 01 ♥	6 C 01 ♥	7 C 01
8 C 01 ♥	9 C 01	10 -----	11 -----
12 -----	13 -----	14 -----	15 -----
16 -----	17 -----	18 -----	19 -----
20 -----	21 -----	22 -----	23 -----



### ■ Displaying programme list

1. Press the **LIST** button to display the **Programme List** menu.
2. The programme list appears on the screen. One programme list contains 24 programmes.

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

### ■ Selecting a programme in the programme list

1. Select a programme with the **▲** / **▼** / **◀** / **▶** button.
2. Press the **OK** button. The set switches to the chosen programme number.

### ■ Paging through a programme list

There are 5 programme LIST pages which total contain 100 programmes.

1. Press the **▲** / **▼** / **◀** / **▶** button repeatedly to turn the pages.
2. Press the **EXIT** button to return to normal TV viewing.



## Picture Menu Options

### PSM (Picture Status Memory)



- This function adjusts the set for the best picture appearance.
- When adjusting **User** options (**Contrast**, **Brightness**, **Colour**, and **Sharpness**) manually, **PSM** automatically changes to **User**.
- **Dynamic**, **Standard**, **Mild**, and **Game** are programmed for optimum picture reproduction at the factory and cannot be changed.

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **PICTURE** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **PSM**.
- 3 Press the **▶** button and then **▲ / ▼** button to select **Dynamic**, **Standard**, **Mild**, **Game**, or **User**.
- 4 Press the **EXIT** button to return to normal TV viewing.

### Manual Picture Adjustment (PSM-User option)



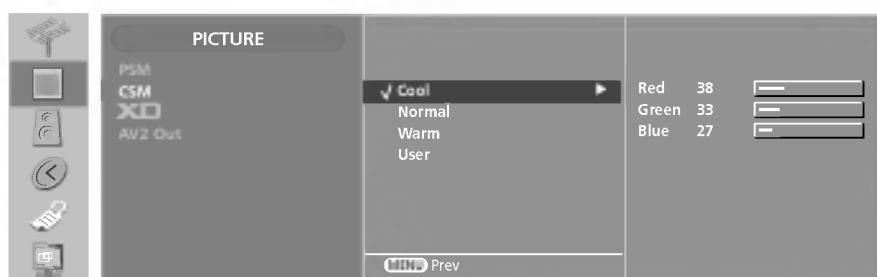
- You can adjust picture **Contrast**, **Brightness**, **Colour**, **Sharpness** and **Tint** (NTSC only) to the levels you prefer.

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **PICTURE** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **PSM**.
- 3 Press the **▶** button and then **▲ / ▼** button to select **User**.
- 4 Press the **▶** button and then **▲ / ▼** button to select the desired picture option (**Contrast**, **Brightness**, **Colour**, or **Sharpness**).
- 5 Press the **◀ / ▶** button to make appropriate adjustments.
- 6 Press the **EXIT** button to return to normal TV viewing.



- Only **Contrast** and **Brightness** are displayed in PC mode.

## CSM (Colour Status Memory)



- To 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**.

- 1 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 **▶** button and then **▲ / ▼** 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.
- 4 Press the **EXIT** button to return to normal TV viewing.

## Manual Colour Temperature Control (CSM - User option)



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

- 1 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 **▶** button and then **▲ / ▼** button to select **User**.
- 4 Press the **▶** button and then **▲ / ▼** button to select **Red**, **Green**, or **Blue**.
- 5 Press the **◀ / ▶** button to make appropriate adjustments.
- 6 Press the **EXIT** button to return to normal TV viewing.



## Picture Menu Options continued

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

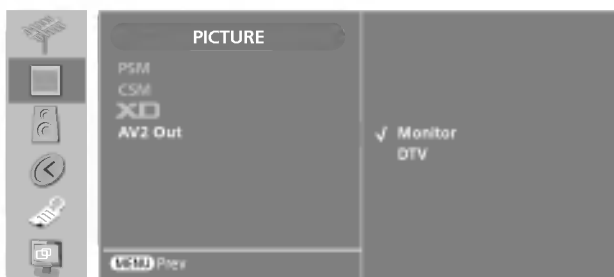


### • Demo

Use it to see the difference between XD demo on and XD Demo off. To release XD Demo, press the **EXIT** button.

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **PICTURE** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **XD**.
- 3 Press the **▶** button and then **▲ / ▼** button to select **Off**, **On**, or **Demo**.
- 4 Press the **EXIT** button to return to normal TV viewing.

## Picture Out for AV2 Euro Scart



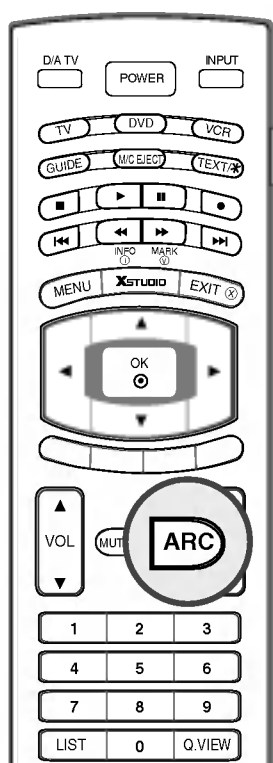
- Use it to select your desired picture out input source for AV2 Euro scart socket.
- If you select **DTV** while viewing the HDMI input source, the video and audio is unavailable.

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **PICTURE** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **AV2 Out**.
- 3 Press the **▶** button and then **▲ / ▼** button to select **Monitor** or **DTV**.
  - If you select **Monitor**, the current viewing input source outputs.
  - If you select **DTV**, the DTV input source outputs.
- 4 Press the **EXIT** button to return to normal TV viewing.

## Picture Format

- You can watch TV in various picture formats; Wide, 14:9, Zoom, Auto, 4:3.
- Avoid keeping a fixed image on the set's screen for a long time. The fixed image may become imprinted on the screen.

**1** Repeatedly press the **ARC** button to select your desired picture format.



### Wide



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. Press the  $\blacktriangle$  /  $\blacktriangledown$  button to see the invisible part in this picture format.

### 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.

Press the  $\blacktriangle$  /  $\blacktriangledown$  button to see the invisible part in this picture format.

### Auto



When your set 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.



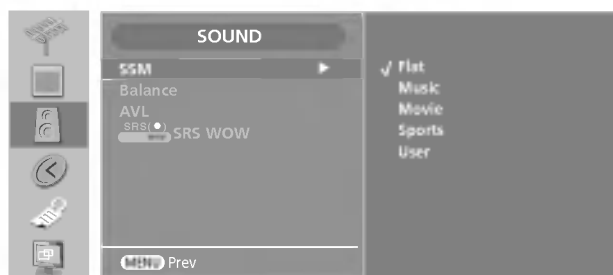
• In PC mode, only **Wide** and **4:3** aspect ratios are available.



## Sound Menu Options

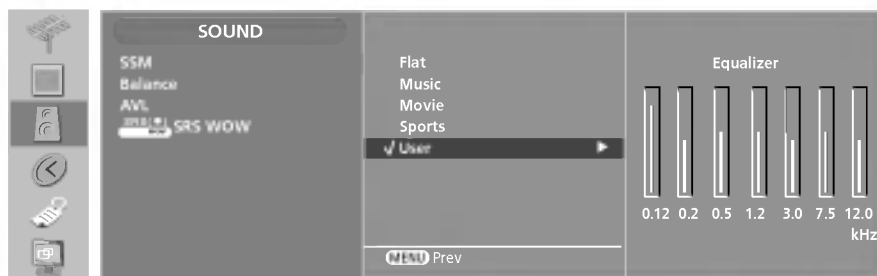
### SSM (Sound Status Memory)

- **SSM** lets you enjoy the best sound without any special adjustment because the TV sets the appropriate sound options based on the programme content.
- You can select your preferred sound setting; **Flat**, **Music**, **Movie**, or **Sports** and you can also adjust the sound frequency of the equalizer.
- When adjusting sound equalizer manually, **SSM** automatically switches **User**.
- **Flat**, **Music**, **Movie**, and **Sports** are preset for good sound quality at the factory and are not adjustable.



- 1 Press the **MENU** button and then **▲ / ▼** button to select the **SOUND** menu.
- 2 Press the **►** button and then **▲ / ▼** button to select **SSM**.
- 3 Press the **►** button and then **▲ / ▼** button to select **Flat**, **Music**, **Movie**, **Sports**, or **User**.
- 4 Press the **EXIT** button to return to normal TV viewing.

### Sound Frequency Adjustment (SSM - User option)



- Adjust the sound equalizer.
- 1 Press the **MENU** button and then **▲ / ▼** button to select the **SOUND** menu.
  - 2 Press the **►** button and then **▲ / ▼** button to select **SSM**.
  - 3 Press the **►** button and then **▲ / ▼** button to select **User**.
  - 4 Press the **►** button.
  - 5 Select a sound band by pressing the **◀ / ▶** button. Make appropriate sound level with the **▲ / ▼** button.
  - 6 Press the **EXIT** button to return to normal TV viewing.

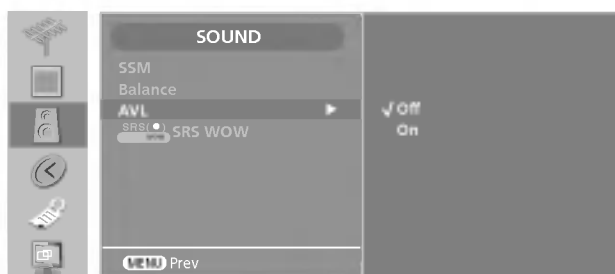
## Balance Adjustment



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

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **SOUND** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **Balance**.
- 3 Press the **▶** button and then **◀ / ▶** button to make desired adjustment.
- 4 Press the **EXIT** button to return to normal TV viewing.

## AVL (Auto Volume Leveler)



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

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **SOUND** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **AVL**.
- 3 Press the **▶** button and then **▲ / ▼** button to select **Off** or **On**.
- 4 Press the **EXIT** button to return to normal TV viewing.



## Sound Menu Options continued

- The **SRS WOW** function plays back the mono or stereo sound input with the dynamic surround effects. It will provide rich and profound sound tone.
- If you set the **SRS WOW ON**, **SSM** can not be adjusted.

### Mini Glossary



is a trademark of SRS Labs, Inc. technology is incorporated under license from SRS Labs, Inc.

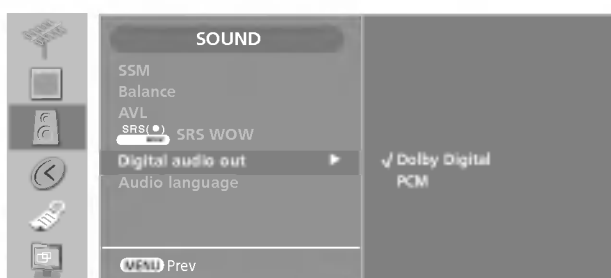
### SRS WOW



- 1 Press the **MENU** button and then **▲ / ▼** button to select the **SOUND** menu.
- 2 Press the **►** button and then **▲ / ▼** button to select **SRS WOW**.
- 3 Press the **►** button and then **▲ / ▼** button to select **Off** or **On**.
- 4 Press the **EXIT** button to return to normal TV viewing.

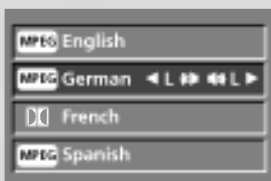
### Digital Audio out (In Digital mode only)

- This function lets you select your preferred Digital Audio Output.
- When it doesn't apply the Dolby Digital Audio signal, select the PCM function to output the Dolby digital audio by SPDIF output.
- When connecting with external audio equipments, such as amplifiers or speakers, please select the **Dolby Digital**.
- If you select the **Dolby Digital** when Dolby digital sound is included on the programme, the set speakers output Dolby digital sound.
- When it's applied the AC3 format, if you select **Digital audio out-Dolby Digital**, SPDIF output will be outputted AC3. Even if it's selected **Dolby Digital**, when it doesn't apply AC3 format, SPDIF output will be outputted **PCM**.
- If you set **Digital audio out** and **Audio language** function simultaneously, only **Digital audio out** function will work.



- 1 Press the **MENU** button and then **▲ / ▼** button to select the **SOUND** menu.
- 2 Press the **►** button and then **▲ / ▼** button to select **Digital audio out**.
- 3 Press the **►** button and then **▲ / ▼** button to select **Dolby Digital** or **PCM** (Pulse Code Modulation).
- 4 Press the **EXIT** button to return to normal TV viewing.

- You can select the audio language with the **I/II** button on the remote control when two or more Audio languages are broadcasted.
  - a. Press the **▲ / ▼** button to select the desired language.
  - b. Press the **◀ / ▶** button to select **L+L**, **L+R**, or **R+R**.
  - c. The languages can be chosen for digital sources only if they are included on the program.



N.A	Not Available
Audio	Audio only service
ABC	Audio for visual impaired
	Audio for hearing impaired
	* The audio which it has not a language code will be displayed a 3 character.



### Audio Language (In Digital mode only)



- This function lets you select your preferred language for audio.

- If the audio data in selected language is not broadcasted, the default audio will be played.

- The **Digital audio out** function has priority over the **Audio language** function. So make sure to select **Dolby audio out-PCM** when selecting desired audio language.

- 1** Press the **MENU** button and then **▲ / ▼** button to select the **SOUND** menu.
- 2** Press the **►** button and then **▲ / ▼** button to select **Audio language**.
- 3** Press the **►** button and then **▲ / ▼** button to select **German, English, French, Spanish, or Italian**.
- 4** Press the **EXIT** button to return to normal TV viewing.



## Sound Menu Options continued

### Stereo/Dual Reception (In Analogue mode only)

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

#### Mini Glossary

- DUAL I** Sends the primary broadcast language to the loudspeakers.
- DUAL II** Sends the secondary broadcast language to the loudspeakers.
- DUAL I+II** Sends a separate language to each loudspeaker.

Broadcast	On Screen Display
Mono	<b>MONO</b>
Stereo	<b>STEREO</b>
Dual	<b>DUAL I</b>

#### ■ Mono sound selection

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

#### ■ Language selection for dual language broadcast

If a programme received two languages (dual language), you can switch to **DUAL I**, **DUAL II** or **DUAL I+II** by pressing the **I/II** button repeatedly.

### NICAM Reception (In Analogue mode only)

- If the 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**.

### Speaker Sound Output Selection

- In AV, S-Video, Component, and DVI mode, you can select output sound for the left and right loudspeakers.

Repeatedly press the **I/II** button to select the sound output.

**L+R:** Audio signal from audio L input is sent to the left loud speaker and audio signal from audio R input is sent to the right loud speaker.

**L+L:** Audio signal from audio L input is sent to left and right loud speakers.

**R+R:** Audio signal from audio R input is sent to left and right loud speakers.

## Time Menu Options

### Clock Setup



- The clock is set automatically when receiving the digital signal. (You can set the clock if the TV has no DTV signal.)
- You must set to the time correctly before using on/off time function.

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **TIME** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **Clock**.
- 3 Press the **▶** button and then **◀ / ▶** button to select either the year, date, or time option.
- 4 Once selected, use the **▲ / ▼** button to set the year, date, and time options.
- 5 Press the **EXIT** button to return to normal TV viewing.

### Time Zone



- Select the time zone depending on your viewing area.

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **TIME** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **Time zone**.
- 3 Press the **▶** button and then **▲ / ▼** button to select **Germany, Italy, Spain, France, or Great Britain**.
- 4 Press the **EXIT** button to return to normal TV viewing.

## Time Menu Options Continued

### On/Off Time

- The Off time automatically switches the set to standby at the preset time.
- Two hours after the set is switched on by the on time function it will automatically switch back to standby mode unless a button has been pressed.
- Once the on time/off time is set, these functions operate daily at the preset time.
- Off time function overrides On timer function if they are set both to the same time.
- The set must be in standby mode for the On timer to work.



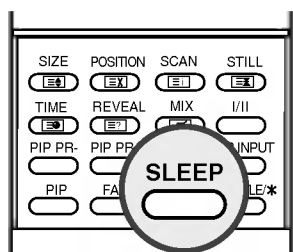
- 1 Press the **MENU** button and then **▲ / ▼** button to select the **TIME** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **Off time/On time**.
- 3 Press the **▶** button and then **▲ / ▼** button to select **On**.
  - To cancel **On/Off timer** function, select **Off**.
- 4 Press the **▶** button and then **▲ / ▼** button to set the hour.
- 5 Press the **▶** button and then **▲ / ▼** button to set the minutes.
- 6 **only On timer function**
  - **Programme:** Press the **▶** button and then **▲ / ▼** button to select **TV** or **DTV**. And then, Press the **▶** button and then **▲ / ▼** button to select the programme.
  - **Volume:** Press the **▶** button and then **▲ / ▼** button to adjust volume level at turn-on.
- 7 Press the **EXIT** button to return to normal TV viewing.

### Auto Sleep



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

## Sleep Timer

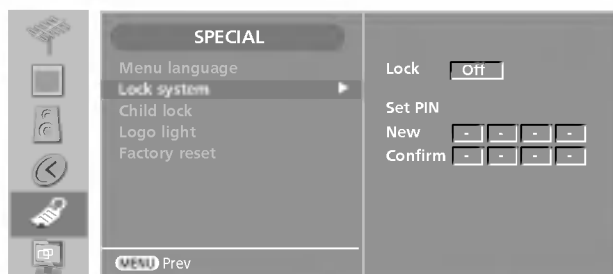


- You don't have to remember to switch the set off before you go to sleep.
- The sleep timer automatically switches the set to standby after the preset time has elapsed.
- You can also use the **TIME** menu to adjust **Sleep timer**.

- 1** Press the **SLEEP** button repeatedly to select the number of minutes. First the '🕒 ---' option appears on the screen, followed by the following sleep timer options: 10, 20, 30, 60, 90, 120, 180, and 240 minutes.
- 2** The timer begins to count down from the number of minutes selected.
- 3** To view the remaining sleep time, press the **SLEEP** button once.
- 4** To cancel the sleep time, repeatedly press the **SLEEP** button until the display '🕒 ---' appears.
- 5** When you switch the set off, the set releases the preset sleep time.

## Special Menu Options

### Lock System



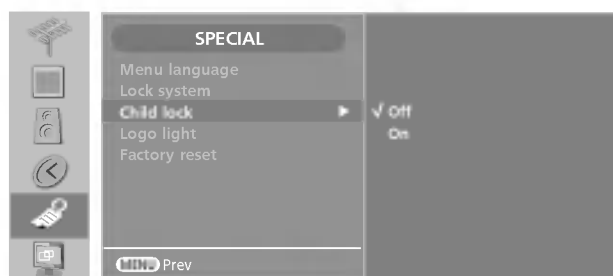
- Set up blocking schemes to block specific channels.
- A password is required to gain access to this menu if the Lock System is turned on.



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

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **SPECIAL** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **Lock system**. Then, press the **▶** button.
  - If **Lock** is already set, enter the password as requested.
  - The TV is set up with the initial password "0-0-0-0".
- 3 Press the **▲ / ▼** button to select **On** or **Off**.
- 4 Press the **▶** button and then enter a 4 digit password. Enter it again when requested. Change the password by inputting a new password twice.

### Child Lock



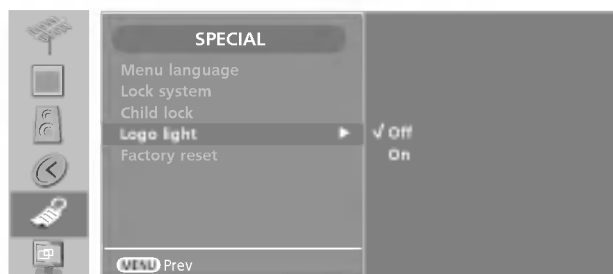
- The TV can be set so that the remote control is needed to control it. This feature can be used to prevent unauthorized viewing.

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **SPECIAL** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **Child lock**.
- 3 Press the **▶** button and then **▲ / ▼** button to select **Off** or **On**.
- 4 Press the **EXIT** button to return to normal TV viewing.



- 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 TV.

## Logo Light

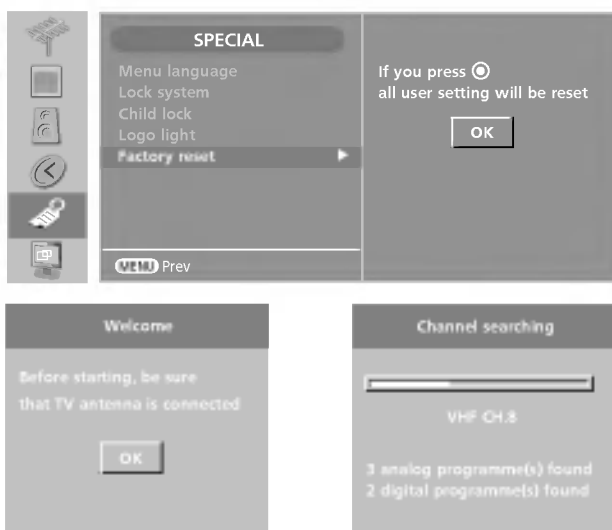


- If you select **On**, the logo of TV front panel turns the lamp on.

- 1 Press the **MENU** button and then **▲ / ▼** button to select the **SPECIAL** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **Logo light**.
- 3 Press the **▶** button and then **▲ / ▼** button to select **Off** or **On**.
- 4 Press the **EXIT** button to return to normal TV viewing.

## Factory Reset

- Use to quickly reset all the menu options to their original factory preset values.
- You can also see this OSD display when turning the TV on at first after purchasing it.



- 1 Press the **MENU** button and then **▲ / ▼** button to select the **SPECIAL** menu.
- 2 Press the **▶** button and then **▲ / ▼** button to select **Factory reset**.
- 3 Press the **▶** button and then enter the password.
- 4 Press the **OK** button to reset the menu options to original values. At this time, the set turns off and then it automatically turns on. All user setting will be reset.
- 5 Press the **EXIT** button to return to normal TV viewing.



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

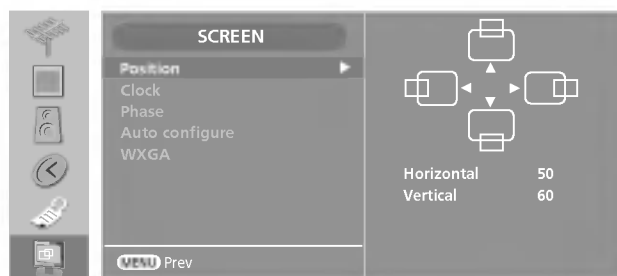


## Screen Menu Options

\* Be sure to select the DVI PC input source before operation.

When connecting a DVI PC and RGB PC with DVI INPUT jack on the set, Select the DVI PC input source.

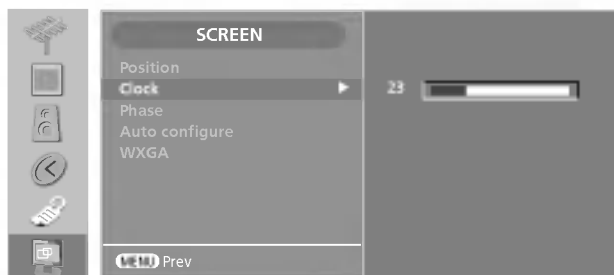
### Screen Position



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

- 1 Press the **MENU** button and then use ▲ / ▼ button to select the **SCREEN** menu.
- 2 Press the ► button and then use ▲ / ▼ button to select **Position**.
- 3 Press the ► button and then use ▲ / ▼ / ◀ / ▶ button to adjust the position.
- 4 Press the **OK** button to save.

### Manual Configure (Clock & Phase)



- 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**.

- 1 Press the **MENU** button and then use ▲ / ▼ button to select the **SCREEN** menu.
- 2 Press the ► button and then use ▲ / ▼ button to select **Clock** or **Phase**.
- 3 Press the ► button and then use ◀ / ▶ button to make appropriate adjustments.
  - The adjustment range of **Phase** is 0~63.
  - The adjustment range of **Clock** is 0~100.
- 4 Press the **OK** button to save.

#### Mini Glossary

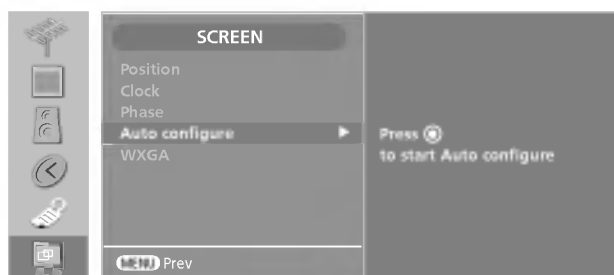
**Clock** This function is to minimize any vertical bars or stripes visible on the screen background. And the horizontal screen size will also change.

**Phase** This function allows you to remove any horizontal noise and clear or sharpen the image of characters.



## Auto Configure

- 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.



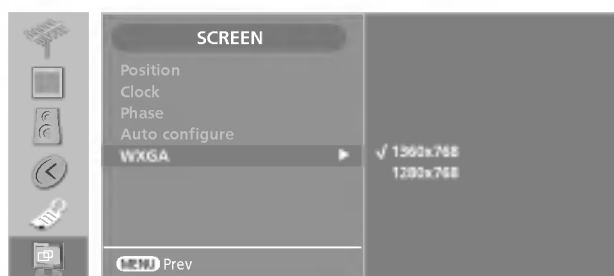
### Mini Glossary

#### Auto configure

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

- 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 configure**.
- 3 Press the ► button to start **Auto configure**.
  - If the position of the image is still not correct, try it again.

## WXGA Mode

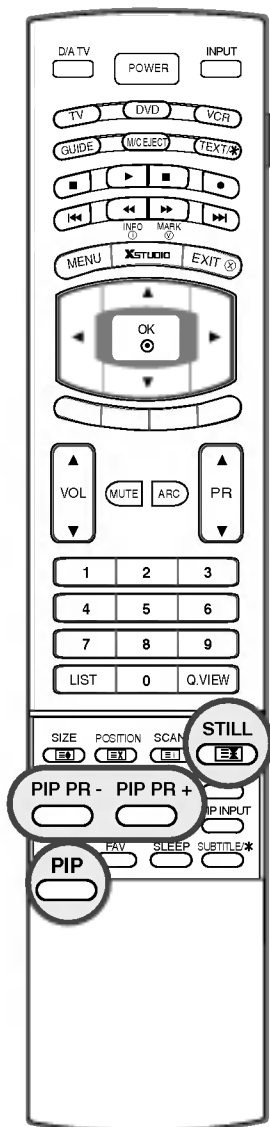


- For more improved or better picture quality, select the same mode corresponding to computer resolution.

- 1 Press the **MENU** button and then use ▲ / ▼ button to select the **SCREEN** menu.
- 2 Press the ► button and then use ▲ / ▼ button to select **WXGA**.
- 3 Press the ► button and then use ▲ / ▼ button to select desired mode. From this point on, the adjustment starts.

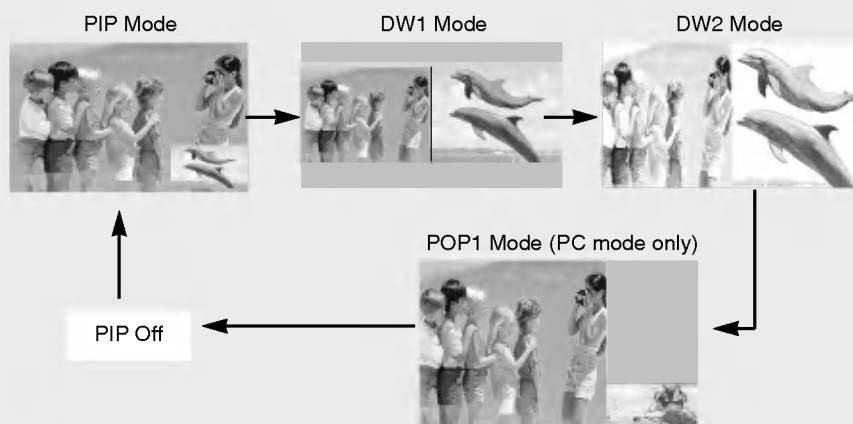
## PIP (Picture-In-Picture) / Double Window / POP

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



### Watching PIP/Double Window/POP

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



- You can hear the main picture sound in PIP mode. Exchange the main and sub picture to hear the sub picture sound.

### Sub Picture Freeze

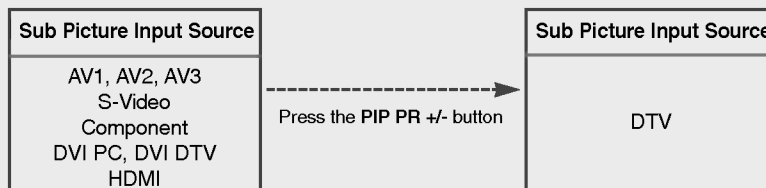
1. Press the **STILL** button to freeze motion of the sub picture.
2. Press the **STILL** button again to release the freeze motion.

### Programme Selection for Sub Picture

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



- When you press the **PIP PR +/-** button to select a programme for the sub picture, the sub picture is automatically changed to DTV mode.

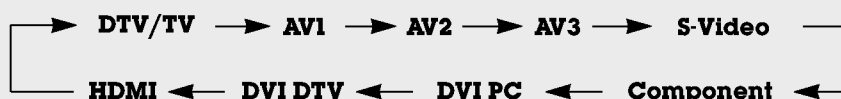


- If you press the **PIP PR +/-** button in DTV mode for main picture, the sub picture is changed to Analog mode.

## Input Source Selection for Sub Picture

Press the **PIP INPUT** button to select the input source for the sub picture.



Each press of **PIP INPUT** button is pressed, each input source for the sub picture is displayed as shown below.



Main picture Input	Available Sub Picture Input for Each PIP Mode		
	PIP / DW1 / DW2	POP1	POP3
DTV	All (Except DTV)	Not available	TV Only
TV	All (Except TV)	Not available	DTV Only
AV1	All (Except AV1)	Not available	TV / DTV
AV2	All (Except AV2)	Not available	TV / DTV
AV3	All (Except AV3)	Not available	TV / DTV
S-Video	All (Except S-Video)	Not available	TV / DTV
Component	DTV, TV, AV1, AV2, AV3, S-Video	Not available	TV / DTV
DVI DTV	DTV, TV, AV1, AV2, AV3, S-Video	DTV, TV, AV1, AV2, AV3, S-Video	TV / DTV
DVI PC	DTV, TV, AV1, AV2, AV3, S-Video	Not available	TV / DTV
HDMI	DTV, TV, AV1, AV2, AV3, S-Video	Not available	TV / DTV

## Sub Picture Size Adjustment (PIP mode only)

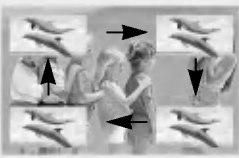

There are 2 types of sub picture size according to main and sub picture input source.

Input source		Sub Picture Size
Main Picture Input	Sub Picture Input	
DTV	TV, AV1, AV2, AV3, S-Video	Press the <b>SIZE</b> button in PIP mode. And press the ◀ / ▶ button until desired size is achieved. 
TV	DTV, AV1, AV2, AV3, S-Video	
AV1	DTV, TV, AV2, AV3, S-Video	
AV2	DTV, TV, AV1, AV3, S-Video	
AV3	DTV, TV, AV1, AV2, S-Video	
S-Video	DTV, TV, AV1, AV2, AV3	
DTV, TV, AV1, AV2, AV3, S-Video	Component, DVI DTV, DVI PC, HDMI	Press the <b>SIZE</b> button in PIP mode. And press the ◀ / ▶ button until desired size is achieved. 
Component, DVI DTV, DVI PC, HDMI	DTV, TV, AV1, AV2, AV3, S-Video	

## PIP (Picture-In-Picture) / Double Window / POP continued

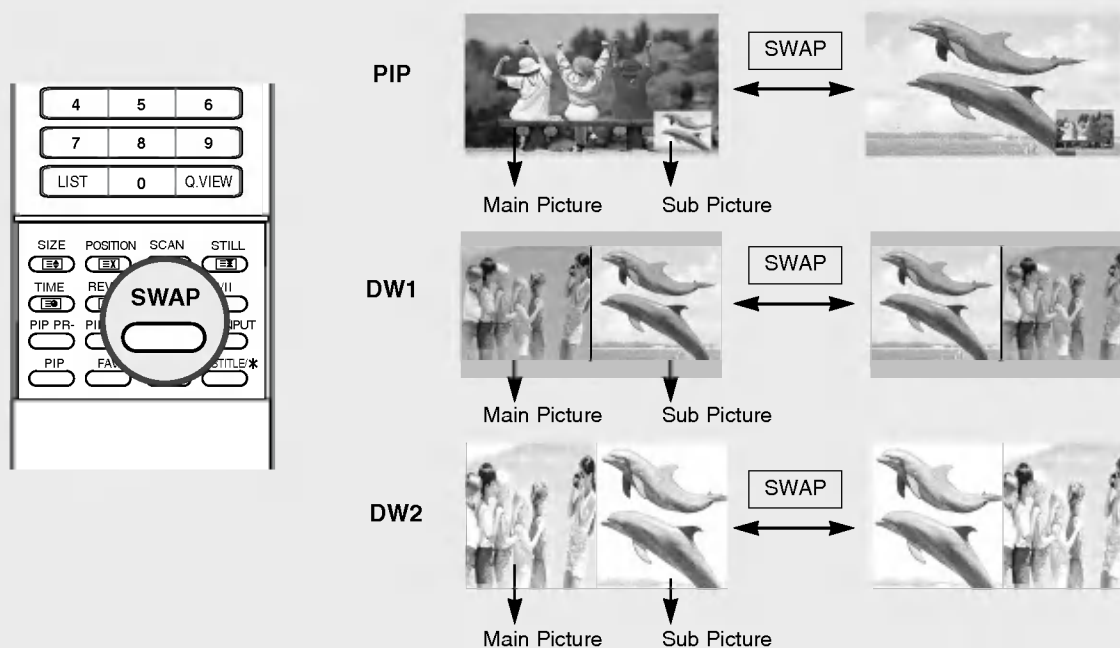
### Moving the Sub Picture (PIP mode only)

There are 2 types of sub picture position according to main and sub picture input source.

Input Source		Sub Picture Position
Main Picture Input	Sub Picture Input	
DTV	TV, AV1, AV2, AV3, S-Video	 <p>Press the <b>POSITION</b> button in PIP mode. Each press of the <b>POSITION</b> button will move the sub picture to a different position on the screen in a clockwise direction.</p>
TV	DTV, AV1, AV2, AV3, S-Video	
AV1	DTV, TV, AV2, AV3, S-Video	
AV2	DTV, TV, AV1, AV3, S-Video	
AV3	DTV, TV, AV1, AV2, S-Video	
S-Video	DTV, TV, AV1, AV2, AV3	
DTV, TV, AV1, AV2, AV3, S-Video	Component, DVI DTV, DVI PC, HDMI	 <p>Press the <b>POSITION</b> button in PIP mode. And press the <b>▲ / ▼ / ◀ / ▶</b> button until desired position is achieved.</p>
Component, DVI DTV, DVI PC, HDMI	DTV, TV, AV1, AV2, AV3, S-Video	

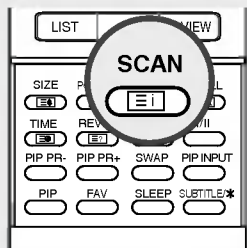
### Swapping between main and sub pictures

Press the **SWAP** button to exchange the main and sub pictures.



## POP (Picture-out-of-Picture: Programme Scan)

- This function enables you to search all the stored stations on 3 sub pictures.
- Note: Run Auto programme channel search before using POP mode.



1. Press the **SCAN** button to activate the programme scan mode while in PIP/DW/POP1 mode.  
The selected sub pictures search all the stored stations.
2. Press the **EXIT** button to cancel POP3 mode.

## TELETEXT

- Teletext (or TOP text) is an optional function, therefore only the 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** or **EXIT** button to switch off teletext.

### 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 re-enter the correct page number.
2. The **PR ▲ / ▼** button can be used to select the preceding or following page.

### TOP Text

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

#### ■ Block / group / page selection

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


#### ■ Direct page selection

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

## FASTEXT

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

### ■ Page selection

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

## Special Teletext Functions



### REVEAL

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





### SIZE

Selects double height text.  
Press this button to enlarge the top half of the page.  
Press this button again to enlarge the bottom half of the page.  
Press this button again to return to the normal display.



### POSITION

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



### STILL

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.



### MIX

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



### TIME

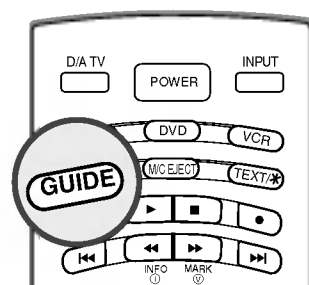
- a. When viewing a TV programme, press this button to display the time. Press this button again to remove the display.
- b. In the teletext mode, press this button to select a sub page number. The sub page number is displayed at the bottom of the screen. To hold or change the sub page, press the RED/GREEN, **PR ▲ / ▼** or NUMBER buttons.  
Press this function again to exit.

## EPG (Electronic Programme Guide) (In Digital mode)

- This system has an Electronic Programme Guide (EPG) to help your navigation through all the possible viewing options.
- The EPG supplies information such as programme listings, start and end times for all available services. In addition, detailed information about the programme is often available in the EPG (the availability and amount of these programme details will vary, depending on the particular broadcaster).
- This function can be used only when the EPG information is broadcasted by broadcasting companies.
- The EPG displays the programme description for next 8 days.

### How to use EPG

- 1 Press the **GUIDE** button to switch on EPG.
- 2 Press the **RED** button repeatedly to select the EPG mode as shown below: Now/Next guide mode, 8 Days guide mode, or Channel guide mode.
- 3 Press the **GUIDE** or **EXIT** button again to switch off EPG and return to TV viewing.



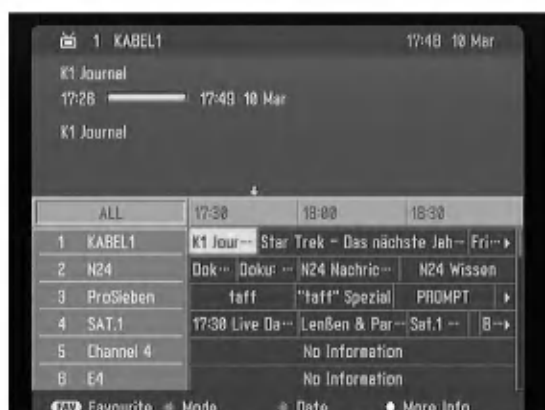
### Now/Next Guide Mode



Remote Control Buttons	Function
<b>FAV</b>	Shows the favourite programmes or all programmes
<b>INFO</b>	The detail information on or off (See p.58)
<b>RED</b>	Mode change to 8 days Guide
<b>●</b>	Change to the selected channel
<b>◀ / ▶</b>	Select NOW or NEXT mode
<b>▲ / ▼</b>	Select the Broadcasting Programme
<b>PR ▲ / ▼</b>	Page Up/Down
<b>GUIDE/EXIT</b>	Switch off EPG

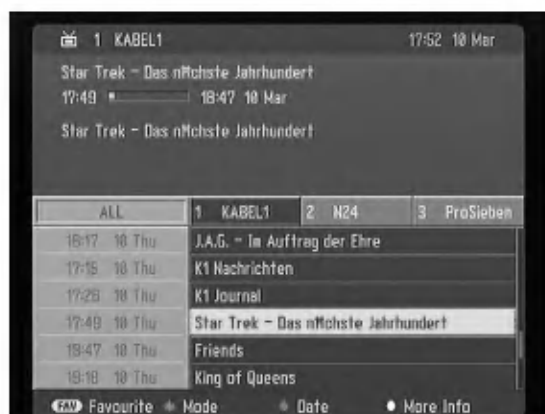


## 8Days Guide Mode



Remote Control Buttons	Function
<b>FAV</b>	Shows the favourite programmes or all programmes
<b>INFO</b>	The detail information on or off (See p.58)
<b>RED</b>	Mode change to Channel Guide
<b>GREEN</b>	Show or hide the date change box (See p.58)
<b>●</b>	Change to the selected channel
<b>◀ / ▶</b>	Select the programme for other time
<b>▲ / ▼</b>	Select the other programme for same time
<b>PR ▲ / ▼</b>	Page Up/Down
<b>GUIDE/EXIT</b>	Switch off EPG

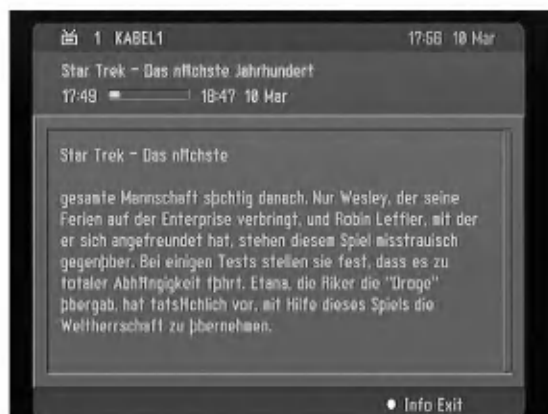
## Channel Guide Mode



Remote Control Buttons	Function
<b>FAV</b>	Shows the favourite programmes or all programmes
<b>INFO</b>	The detail information on or off (See p.58)
<b>RED</b>	Mode change to NOW/NEXT Guide
<b>GREEN</b>	Show or hide the date change box (See p.58)
<b>●</b>	Change to the selected channel
<b>◀ / ▶</b>	Select a broadcasting station
<b>▲ / ▼</b>	Select a broadcasting programme time
<b>PR ▲ / ▼</b>	Page Up/Down
<b>GUIDE/EXIT</b>	Switch off EPG

## EPG (Electronic Programme Guide) (In Digital mode) Continued

### Button Function in Detail Information Box



Remote Control Buttons	Function
▲ / ▼	Text Up/Down
PR ▲ / ▼	Page Up/Down
INFO	The detail information on or off

### Button Function in Date Change Box



Remote Control Buttons	Function
GREEN	Show or hide the date change box
●	Display the programme for the selected date
◀ / ▶	Change a date
▼	Hide the date change box
GUIDE/EXIT	Switch off EPG

## Notes on Memory card

### Memory Card

This is a device equipment to communicate the data between AV external equipment. It's used to a digital camera, camcorder, MP3 player, notebook or PDA.

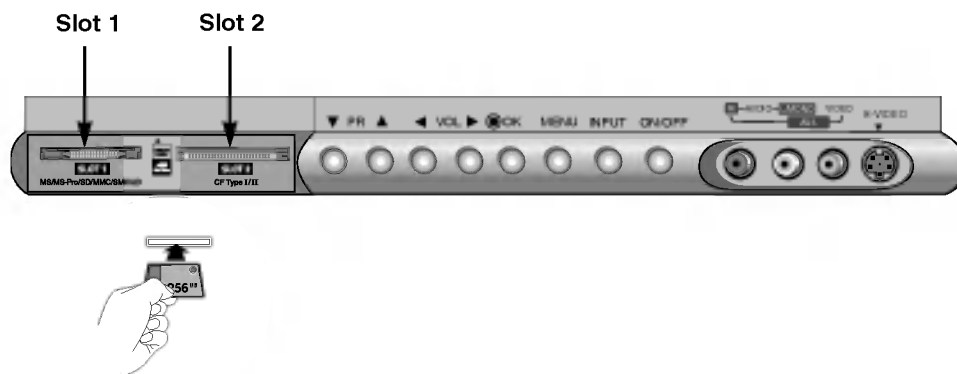
### Precaution for Using the Memory Card

- Please be sure to insert the correct memory card type in the right direction.  
(Confirm between the two memory slots before insertion.)
- Don't insert metal substances into the slots of the memory card.
- Do not bend, drop or apply strong shock to memory card.
- After pulling the memory card out from the set, please keep the memory stick in an appropriate case to prevent it from static shock.
- The stored data may be changed or lost as a result of misuse or static electricity.
- Do not turn the power off while the memory card is in operation.
- Don't eject the memory card while in use. Otherwise, it may cause a data loss or card damage.
- Insert only one card into each slot.
- Static electricity and/or electrical noise has the potential to change or erase the stored data. Please take measures to avoid.
- This Company takes no responsibility for problems such as the damage or malfunction that occurs while using the set, inappropriate settings, or any other reasons, except for defects or malfunctions intrinsic to the product.
- Ensure to use a memory card that lists the manufacturers name and serial number.
- The manufacturer will not be responsible for any data damage. Making back up data is strongly recommended.
- Make sure to comply with the following steps when ejecting a memory card.
- Ensure each memory card has complied with standard.

# XSTUDIO

- **XSTUDIO** mode supports JPEG images and MP3 music files.

## Available Memory Card



- Use the specified card based on the slot location.
- **Some MagicStor Plus card is unavailable.**






Slot 1					Slot 2		
MS / MS-Pro (Memory Stick /Memory Stick Pro)	SD (Secure Digital)	MMC (MultiMedia Card)	SMC (Smart Media Card)	xD (xD-Picture Card)	CF I (CompactFlash)	CF II (MD, Microdrive)	CF II (Magicstor)

## Supported Files

A sort of file	Photo Image (JPEG)	Music File (MP3)
Compatibility	*.jpg	*.mp3
Memory card capacity	CF: 2GB Microdrive: 2GB Magicstor: 2.2GB MMC: 256MB SD: 512MB An error may occur if you use a memory card with greater than the specified capacity.	SMC: 128MB XD: 512MB MS: 128MB MS Pro: 1GB
Unsupported or damaged file	Unsupported or damaged JPEG or MP3 files can cause errors. Do not try to change the file extension of unsupported file types to the file extension of supported file types.	

- Playback speed can vary dependent on the card type.
- You can assign 8 characters for the file name of the card. If the file name is longer than 8 characters, it will be truncated at 6 digits and "~1, 2, 3, and 4" will be appended to the 7-8th position.

### The JPEG Decoding/Thumbnail Supplied Spec

	Compression Method		Colour format		
	Baseline	Progressive	4:4:4 11:11:11 (Y, Cb, Cr)	4:2:2 21:11:11 (Y, Cb, Cr) 12:11:11 (Y, Cb, Cr)	4:2:0 22:11:11 (Y, Cb, Cr)
JPEG Decoding Support	O	X	X	O	O
Image Display	Image	invalid format	invalid format	Image	Image
Thumbnail Display	Display  when there is no thumbnail.			Display  when there is no thumbnail.	Display  when there is no thumbnail.

- If an error occur when decoding a JPEG, "Corrupted file" is displayed on screen.

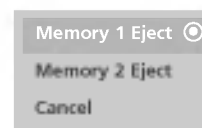
### How to insert and eject the card

#### ■ Insert card

1. Insert the card into the Slot 1 and/or Slot 2 with the hand softly and slowly.
2. Press the **XSTUDIO** button to enter the **XSTUDIO** mode.  
Press the **XSTUDIO** button again to exit the **XSTUDIO** mode.

#### ■ Eject card

1. Press the **M/C EJECT** button on the remote control.
2. Press **▲ / ▼** button to select the **Memory 1 Eject** or **Memory 2 Eject** based on the inserted card location.  
If selecting **Cancel**, OSD is disappeared.
3. Press the **OK** button and then eject the card from the slot.



- Do not insert or eject a card in one slot while the card in the other slot (slot 1 or slot 2) is in use, the product may run abnormally.
- When entering the photo or music media at first, the **M/C EJECT** button will not work.  
It's possible to use the **M/C EJECT** button during while using the photo or music media.
- Before you remove the memory card from the slot, don't forget to press the **M/C EJECT** button on the remote control or the memory card may be damaged.

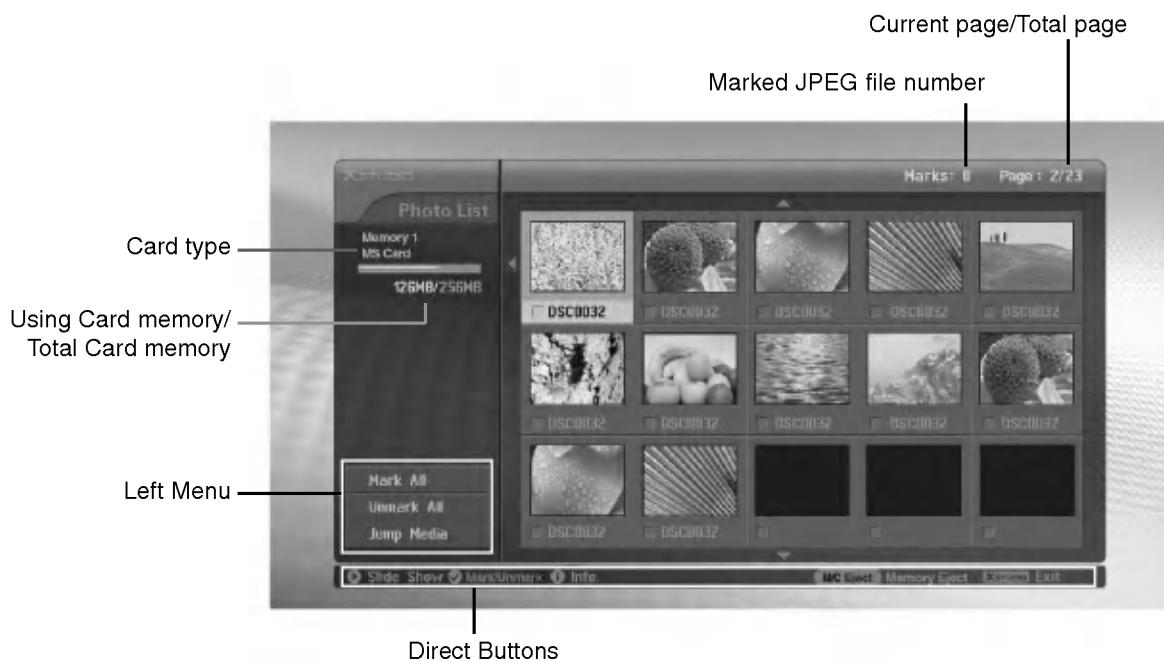
### Basic Operation

- The OSD of the ejected card slot is inactivated when ejecting the card with the hand.
- If there is any error in a memory card, it's impossible to enter **XSTUDIO** mode.



1. Insert the memory card to Slot 1 and/or Slot 2 on the TV.
2. Press the **XSTUDIO** button.
3. Press **▲ / ▼ / ◀ / ▶** button to select photo or music for slot1/2.
4. Press the **OK** button to enter the photo or music media.
5. Press the **XSTUDIO** button to exit the **XSTUDIO** mode.

## JPEG File Viewing Options



### Picture Selection and Viewing

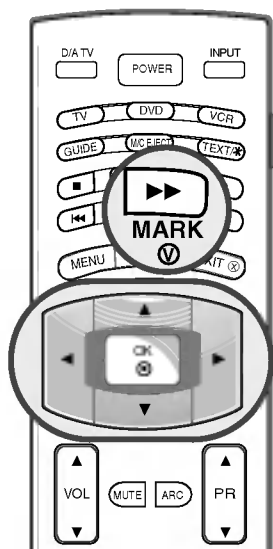
- Select your desired image file.



- 1 Insert the memory card to Slot 1 and/or Slot 2 on the TV.
- 2 Press the **XSTUDIO** button.
- 3 Use **▲ / ▼ / ◀ / ▶** button to select photo media for slot1 or slot 2.
- 4 Press the **OK** button to enter the photo media.  
Note: It's possible to display 15 JPEG files per page.
- 5 Press the **▲ / ▼ / ◀ / ▶** button to select JPEG file and then press the **OK** button.
- 6 Press the **▲ / ▼** button to select **View** and then press the **OK** button.  
The selected image will display on entire screen.

## Mark/Unmark for JPEG file

- You can mark/unmark the file to view the desired file or use slide show for desired file conveniently.



### ■ Mark/Unmark for all files

- 1 In photo media, Repeatedly press ◀ button to enter the left menu.
- 2 Press the ▲ / ▼ button to select **Mark All** or **Unmark All**.
  - If you select **Mark All**, every file is selected.
  - If you select **Unmark All**, the selection for every file is released.
- 3 Press the OK button and then ▶ button to return to the photo list.

### ■ Mark/Unmark for some file

- 1 Press the **MARK** button repeatedly to mark or unmark some JPEG file.

## Jump Media



- Use this function to jump to other media during using the photo media.

- 1 In photo media, press ◀ button repeatedly to enter the left menu.
- 2 Press the ▲ / ▼ button to select **Jump Media** and then press the OK button.
- 3 Press the ▲ / ▼ / ◀ / ▶ button to select desired media and then press the OK button. The screen displays the selected media list.

## JPEG File Viewing Options Continued

### Image Adjustment

- You can display the selected image on entire screen and do the various adjustment for the JPEG file.



- 1 Press the **▲ / ▼ / ◀ / ▶** button to select a JPEG file and then press the **OK** button.
- 2 Press the **▲ / ▼** button to select **View** and then press the **OK** button. The selected image will display on entire screen.
- 3 Adjust the JPEG file.



<b>Image selection</b>	<ul style="list-style-type: none"> <li>• Press the <b>▶</b> button to select next image.</li> <li>• Press the <b>◀</b> button to select previous image.</li> <li>• If you marked files, you will only see the marked files.</li> </ul>
<b>Image Rotation</b>	<ul style="list-style-type: none"> <li>• Press the <b>▲ / ▼</b> button to rotate the image.</li> <li>• <b>▲</b>: Rotate clockwise</li> <li>• <b>▼</b>: Rotate counterclockwise</li> <li>• The enlarged image cannot be rotated.</li> </ul>
<b>Image Zoom In/Out</b>	<ul style="list-style-type: none"> <li>• Press the <b>PR ▲ / ▼</b> button to enlarge or reduce the image 2 or 4 times.</li> <li>• Press the <b>▲ / ▼ / ◀ / ▶</b> button to move the enlarged image.</li> </ul>
<b>Image Deletion</b>	<ul style="list-style-type: none"> <li>• Press the <b>MARK</b> button to delete the current image.</li> </ul>
<b>Go to the Menu</b>	<ul style="list-style-type: none"> <li>• Press the <b>EXIT</b> button to return to the photo list.</li> </ul>
<b>Shown/Hidden the menu</b>	<ul style="list-style-type: none"> <li>• Pressing the <b>OK</b> button will toggle the menu on and off.</li> <li>• The OSD menu is automatically disappear after a while.</li> </ul>




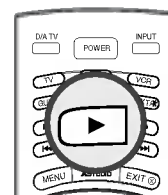
## Slide Show



- 1 Press the **▲ / ▼ / ◀ / ▶** button to select the JPEG file and then press the **OK** button.
- 2 Press the **▲ / ▼** button to select **Slide Show** or **Show Marked** and then press the **OK** button. (If you mark the file with using **MARK** button, **Show Marked** is displayed on screen.)



- You can also operate the **Slide Show** or **Show Marked** with  button directly as shown.




- 3 You can choose the slide show delayed time and effect. Press the **▲ / ▼ / ◀ / ▶** button to choose the slide show delayed time and effect.
- 4 Press the **▲ / ▼ / ◀ / ▶** button to select **OK**. Slide show start.



- If you mark for a file, slide show works only the marked image.



<b>Next / previous Image Selection</b>	<ul style="list-style-type: none"> <li>• Press the <b>▶</b> button to select next image.</li> <li>• Press the <b>◀</b> button to select previous image.</li> </ul>
<b>Image Pause</b>	<ul style="list-style-type: none"> <li>• Press the <b>II</b> button to pause the current image.</li> <li>• Press the  button to restart the slide show.</li> <li>• By pressing <b>◀ / ▶</b> button, you can also select the next or previous image during pausing the image.</li> </ul>
<b>Go to the menu</b>	<ul style="list-style-type: none"> <li>• Press the <b>EXIT</b> button to return to the photo list.</li> </ul>
<b>Shown/Hidden the menu</b>	<ul style="list-style-type: none"> <li>• Pressing the <b>OK</b> button will toggle the menu on and off.</li> <li>• The OSD menu is automatically disappear after a while.</li> </ul>

## JPEG File Viewing Options Continued

### JPEG File Deletion and Cancel



1 Use the ▲ / ▼ / ◀ / ▶ button to select the JPEG file and then press the **OK** button.

#### 2 ■ Delete

To delete the file, press the ▲ / ▼ button to select **Delete** and then press the **OK** button. Select **Yes** with ◀ / ▶ button. The file is deleted, all the following files are shifted up one position.



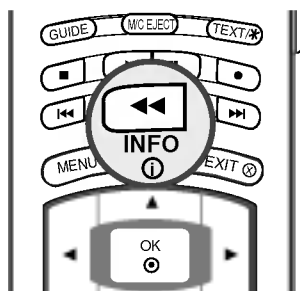
- If you select **Delete** after marking some file, all of the marked file is deleted.
- In case MS, SMC, SD memory card is setted the write protection, "Protection Mode. Please push the **OK** button" message is displayed. When you select **OK**, the screen is returned to the photo list. (Release the write protection to delete a JPEG file.)

#### 3 ■ Cancel

To return to the photo list, press the ▲ / ▼ button to select **Cancel** and then press the **OK** button.

### File Information

- Use it to check information for selected JPEG file.



- 1 In photo media, select your desired JPEG file.
- 2 Press the **INFO** button. The file information for selected JPEG file is displayed. If JPEG file has no information, you can't check it.
- 3 Press the **OK**, **EXIT** or **INFO** button to return to the photo list.

### Screen Saver

- Screen saver operates to prevent fixed image.

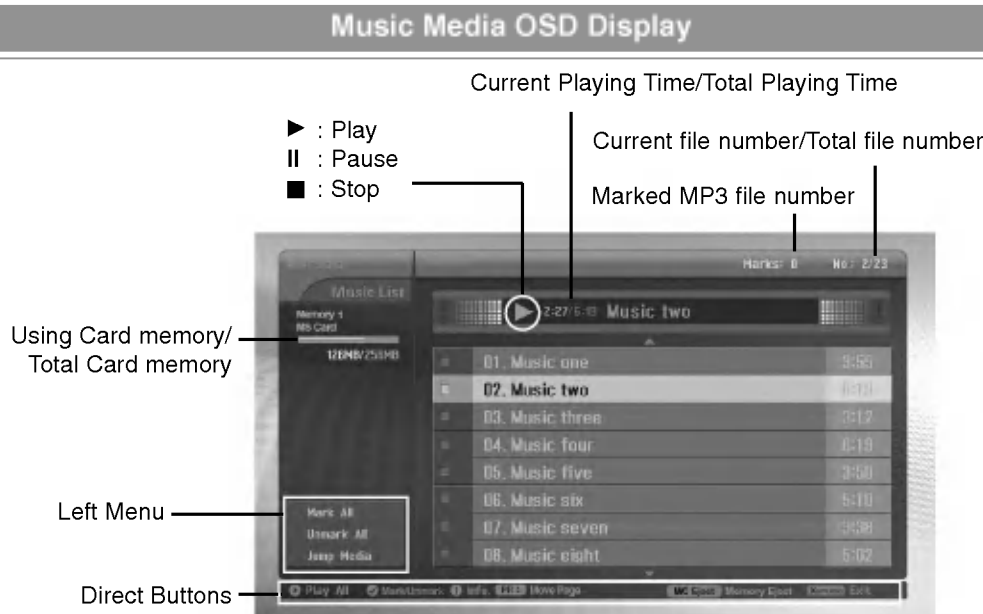
- If you don't press any button about 30 seconds while displaying the photo list, the screen saver is worked.

**XSTUDIO**

- Press the ▲ / ▼ / ◀ / ▶, **EXIT**, ▶ (play), II, ■, I◀◀, ▶▶I, **INFO**, **MARK** button to release the screen saver.

# MP3 Files Playing Operation

- Purchased MP3/music files may contain copyright restrictions. Playback of these files may not be supported by this model.



## MP3 File Selection and Playback

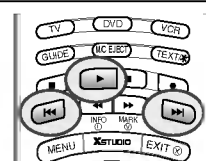
- MP3 file Selection and delete function don't work while playing music.
- If pressing any button except , , button on the remote control while playing the music, the music playing is stopped.
- Moves from the current 8 files list to the next files list with PR ▲ / ▼ button.



- 1 Insert the memory card to Slot 1 and/or Slot 2 on the TV.
- 2 Press the **XSTUDIO** button.
- 3 Use ▲ / ▼ / ◀ / ▶ button to select music media for slot1 or slot 2.
- 4 Press the **OK** button to enter the music media.  
Note: It's possible to display 8 MP3 files per page.
- 5 Press the ▲ / ▼ button to select desired MP3 file and then press the **OK** button.
- 6 Press the ▲ / ▼ button to select **Play** or **Play Marked** and then press the **OK** button. (If you mark the file with using **MARK** button, **Play Marked** is displayed on screen.)

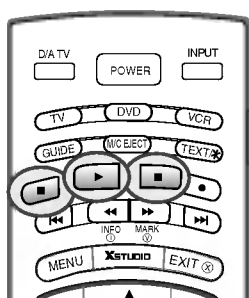


- You can also play the music with button directly.
- The current playing MP3 file displays in front of the title.
- While playing music, press the or button to select the previous or next file.
- If you press the button while playing, the MP3 replays from the beginning.  
(If you press the button within 1~2 seconds after playing a file, it plays the previous file.)



## MP3 Files Playing Operation Continued

### Stop/Pause Playback



#### ■ Stop Playback

Press the ■ button to stop playback.



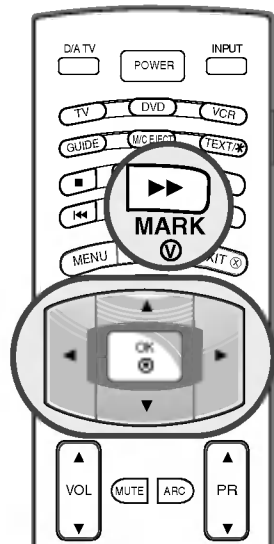
- If you replay the MP3 file after stopping, the highlighted MP3 file on menu will play.

#### ■ Pause Playback

1. Press the || button to pause playback.
2. Press the || or ► button to start from the point of your paused part.

### Mark/Unmark for MP3 File

- You can mark/unmark the file to play the desired file only.
- The menu on the left can be used when playback is stopped.



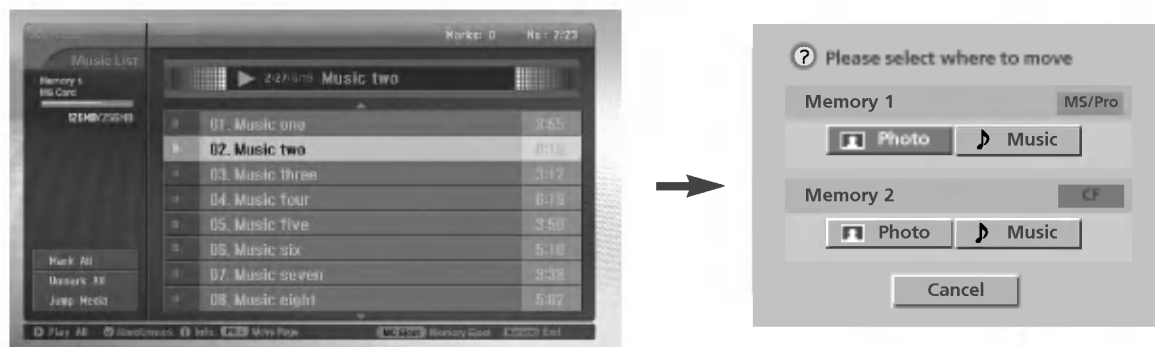
#### ■ Mark/Unmark for all files

- 1 In music media, press the ◀ button.
- 2 Press the ▲ / ▼ button to select **Mark All** or **Unmark All**.
  - If you select **Mark All**, every file is selected.
  - If you select **Unmark All**, the selection for every file is released.
- 3 Press the OK button and then ► button to return to the music list.

#### ■ Mark/Unmark for some file

- 1 Press the **MARK** button repeatedly to mark or unmark an MP3 file.

## Jump Media



- Use this function to jump to other media during using music media.

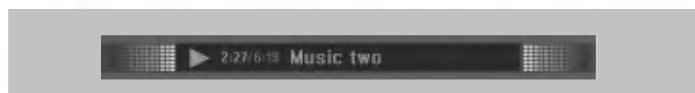
- 1 In music media, press the ◀ button.
- 2 Press the ▲ / ▼ button to select **Jump Media** and then press the OK button.
- 3 Press the ▲ / ▼ / ◀ / ▶ button to select desired media and then press the OK button. The screen displays the each media list.

## Screen Saver

- Screen saver operates to prevent fixed image.

- If you do not press a button within about 30 seconds, the screen saver is worked.

### ■ During playing the MP3



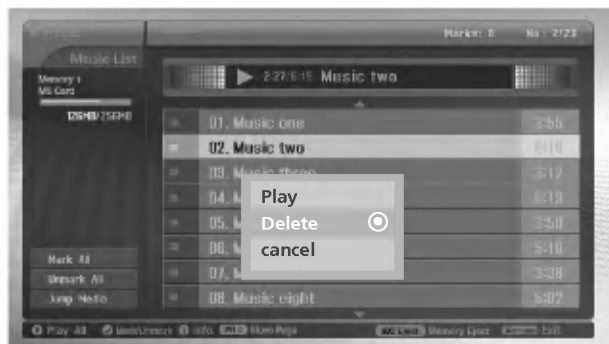
- Press the [stop], [play/pause], [next] buttons. The screen saver is release but the MP3 playback is restarted. If you press other button, the MP3 is stopped.

### ■ During stopping the MP3



- Press the ▲ / ▼ / ◀ / ▶, EXIT, ▶ (play), II, ■, I◀◀, ▶▶I, INFO, PR ▲ / ▼, MARK button to release the screen saver.

## MP3 File Deletion and Cancel



1 Use the ▲ / ▼ button to select the MP3 file and then press the **OK** button.

### 2 ■ Delete

To delete the file, press the ▲ / ▼ button to select **Delete** and then press the **OK** button. Select **Yes** with ◀ / ▶ button. The file is deleted, all the following files are shifted up one position.



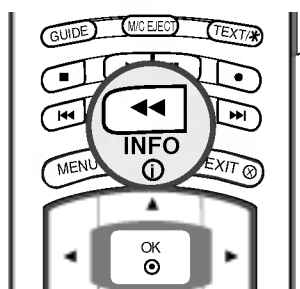
- If you select **Delete** after marking some file, all of the marked file is deleted.
- In case MS, SMC, SD memory card is set the write protection, "Protection Mode. Please push the **OK** button" message is displayed. When you select **OK**, the screen is returned to the music list. (Release the write protection to delete a MP3 file.)

### ■ Cancel

To return to the music list, press the ▲ / ▼ button to select **Cancel** and then press the **OK** button.

## File Information

- Use it to check information for selected MP3 file.



1 In music media, select your desired MP3 file.

2 Press the **INFO** button. The file information for selected MP3 file is displayed.  
If MP3 file has no information, you can't check it.

3 Press the **OK**, **EXIT** or **INFO** button to return to the previous menu.

# Reference

## IR Code

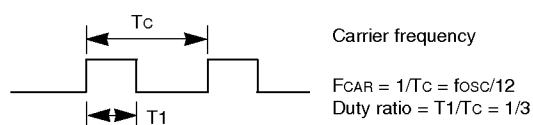
### How to Connect

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

### Remote Control IR Codes

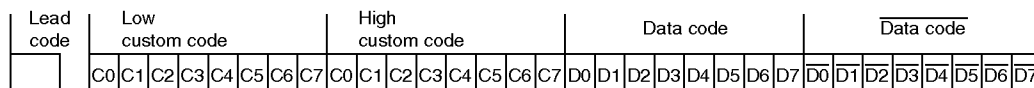
#### ▶ Output waveform

Single pulse, modulated with 37.917KHz signal at 455KHz

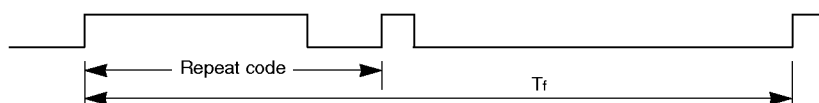


#### ▶ Configuration of frame

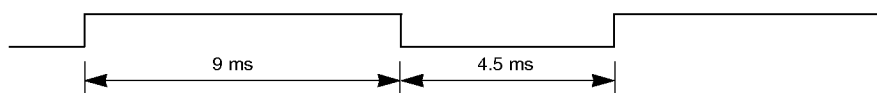
- 1st frame



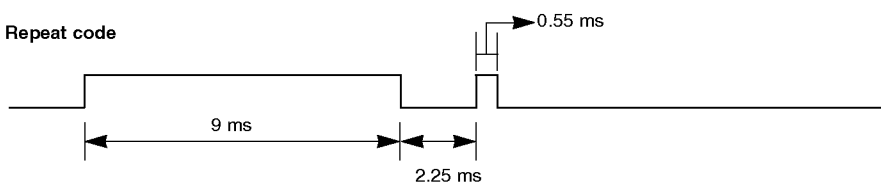
- Repeat frame



#### ▶ Lead code

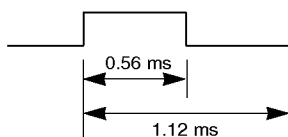


#### ▶ Repeat code

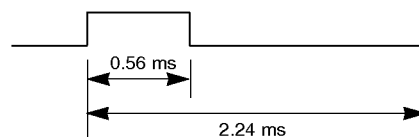


#### ▶ Bit description

- Bit "0"

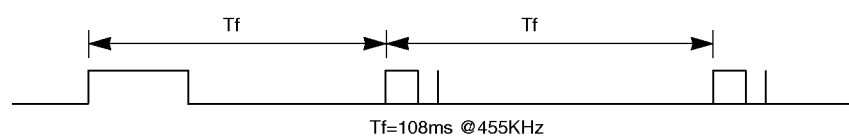


- Bit "1"



#### ▶ Frame interval : $T_f$

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



Code (Hexa)	Function	Note
0x0B	INPUT	Remote Control Button
0x08	POWER	
0xCA	M/C EJECT	
0xAB	GUIDE	
0x50	D/A TV	
0xC8	XSTUDIO	
0xB1	■	
0xB0	▶	
0xBA	II	
0xB2	I◀◀	
0xAA	◀◀ (INFO ⓘ)	
0x7D	▶▶ (MARK Ⓜ)	
0xB3	▶▶I	
0x43	MENU	
0x20	TEXT/★	
0x5B	EXIT	
0x07	◀	
0x40	▲	
0x41	▼	
0x44	OK	
0x06	▶	
0x72	RED	
0x71	GREEN	
0x63	YELLOW	
0x61	BLUE	
0x02	VOL▲	
0x03	VOL▼	
0x09	MUTE	
0x79	ARC	
0x00	PR▲	
0x01	PR▼	
0x10 ~ 0x19	Number Key 0~ 9	
0x53	LIST	
0x1A	Q.VIEW	
0x62	POSITION	
0x64	SIZE	
0x65	STILL	
0x70	SCAN	
0x26	TIME	
0x2A	REVEAL	
0x24	MIX	
0x0A	I/II	
0xC1	PIP RP-	
0xC0	PIP RP+	
0xC2	SWAP	
0xC3	PIP INPUT	
0x60	PIP	
0x1E	FAV	
0x0E	SLEEP	
0x39	SUBTITLE/★	

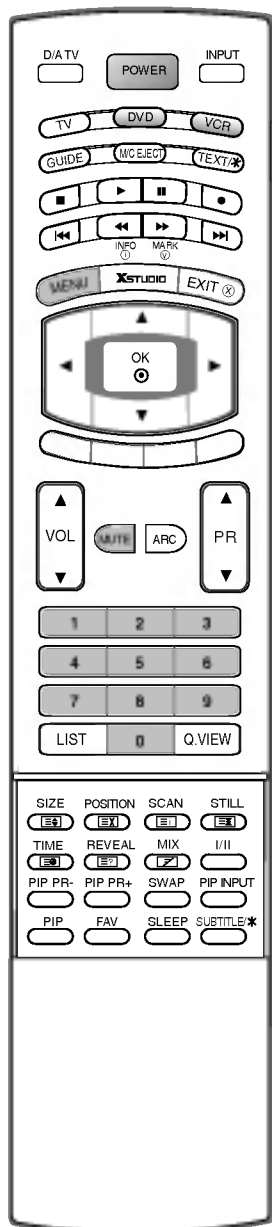


# Programming the Remote control

- 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.

## 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	034 048 056 058
	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		
JVC	012 031 033 043		067 071 101		067		
	048 050 055 060	PILOT	101	SYMPHONIC	034		
LG	130 150 152	PIONEER	013 021 048	TANDY	010 034		

### ■ 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

The operation does not work normally.	
<b>The remote control doesn't work</b>	<ul style="list-style-type: none"> <li>• Check to see if there is any object between the product and the remote control causing obstruction.</li> <li>• Are batteries installed with correct polarity (+ to +, - to -)?</li> <li>• Correct remote operating mode set: TV, VCR etc.?</li> <li>• Install new batteries.</li> </ul>
<b>Power is suddenly turned off</b>	<ul style="list-style-type: none"> <li>• Is the sleep timer set?</li> <li>• Check the power control settings. Power interrupted</li> <li>• No broadcast on station tuned with Auto off activated.</li> </ul>

The video function does not work.	
<b>No picture &amp; No sound</b>	<ul style="list-style-type: none"> <li>• Check whether the product is turned on.</li> <li>• Try another channel. The problem may be with the broadcast.</li> <li>• Is the power cord inserted into wall power outlet?</li> <li>• Check your antenna direction and/or location.</li> <li>• Test the wall power outlet, plug another product's power cord into the outlet where the product's power cord was plugged in.</li> </ul>
<b>Picture appears slowly after switching on</b>	<ul style="list-style-type: none"> <li>• This is normal, the image is muted during the product startup process. Please contact your service centre, if the picture has not appeared after five minutes.</li> </ul>
<b>No or poor colour or poor picture</b>	<ul style="list-style-type: none"> <li>• Adjust Colour in menu option.</li> <li>• Keep a sufficient distance between the product and the VCR.</li> <li>• Try another channel. The problem may be with the broadcast.</li> <li>• Are the video cables installed properly?</li> <li>• Activate any function to restore the brightness of the picture.</li> </ul>
<b>Horizontal/vertical bars or picture shaking</b>	<ul style="list-style-type: none"> <li>• Check for local interference such as an electrical appliance or power tool.</li> </ul>
<b>Poor reception on some channels</b>	<ul style="list-style-type: none"> <li>• Station or cable product experiencing problems, tune to another station.</li> <li>• Station signal is weak, reorient antenna to receive weaker station.</li> <li>• Check for sources of possible interference.</li> </ul>
<b>Lines or streaks in pictures</b>	<ul style="list-style-type: none"> <li>• Check antenna (Change the direction of the antenna).</li> </ul>

The audio function does not work.	
Picture OK & No sound	<ul style="list-style-type: none"><li>• Press the <b>VOL</b> or <b>VOLUME</b> button.</li><li>• Sound muted? Press <b>MUTE</b> button.</li><li>• Try another channel. The problem may be with the broadcast.</li><li>• Are the audio cables installed properly?</li></ul>
No output from one of the speakers	<ul style="list-style-type: none"><li>• Adjust Balance in menu option.</li></ul>
Unusual sound from inside the product	<ul style="list-style-type: none"><li>• 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.</li></ul>

There is a problem in PC mode. (Only PC mode applied)	
The signal is out of range.	<ul style="list-style-type: none"><li>• Adjust resolution, horizontal frequency, or vertical frequency.</li><li>• Check it whether the signal cable is connected or loose.</li><li>• Check the input source.</li></ul>
Vertical bar or stripe on back- ground & Horizontal Noise & Incorrect position	<ul style="list-style-type: none"><li>• Work the Auto configure or adjust clock, phase, or H/V position.</li></ul>
Screen colour is unstable or single colour	<ul style="list-style-type: none"><li>• Check the signal cable.</li><li>• Reinstall the PC video card.</li></ul>

# Product Specifications

Power Requirement	<b>32LP1DA</b> : AC 100-240V~ 50/60Hz 2.0A <b>37LP1DA</b> : AC 100-240V~ 50/60Hz 2.4A
Power Consumption	<b>32LP1DA</b> : 150W <b>37LP1DA</b> : 200W
Television System	PAL/SECAM B/G/D/K, PAL I/II, SECAM L/L'
Programme Coverage	VHF: E2 ~ E12, UHF: E21 ~ E69, HYPER: S21 ~ S41, DVB-T: UHF
External Antenna Impedance	75 $\Omega$

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

