

# OWNER'S MANUAL M2794DP Make sure to read the Safety Precautions before using the product. Keep the User's Guide(CD) in an accessible place for furture reference. See the label attached on the product and give the information to your dealer when you ask for service.

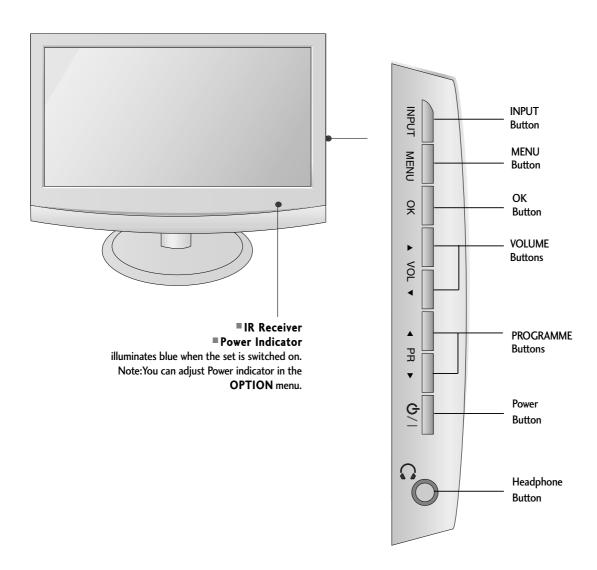
Digital Video Broadcasting

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

**ID Number(s):** 6421 : M2794DP

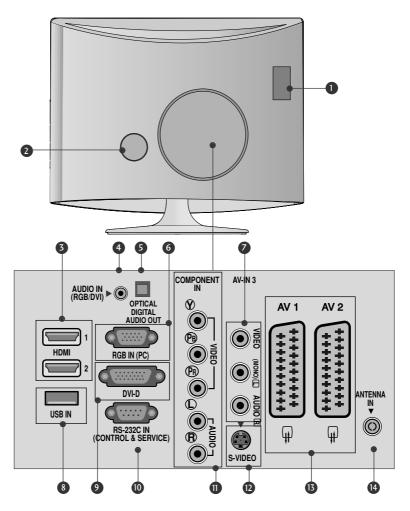
# FRONT PANEL CONTROLS

■ This is a simplified representation of the front panel. The image shown may be somewhat different from your set.



#### **BACK PANEL INFORMATION**

■ This is a simplified representation of the back panel. The image shown may be somewhat different from your set.

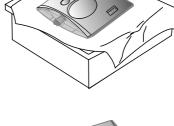


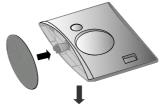
- PCMCIA (Personal Computer Memory Card International Association) Card Slot (This feature is not available in all countries.)
- Power Cord Socket This set operates on AC power. The voltage is indicated on the Specifications page. Never attempt to operate the set on DC power.
- MDMI Input (Not Support PC) Connect a HDMI signal to HDMI IN. Or DVI (VIDEO) signal to HDMI IN with DVI to HDMI cable.
- RGB/DVI Audio Input Connect the audio from a PC.
- Optical Digital Audio Out Connect digital audio from various types of eguipment
- 6 RGB INPUT (PC) Connect the output from a PC.

- Audio/Video Input Connect audio/video output from an external device to these jacks.
- 8 USB IN
- DVI-D Input Connect the output from a PC.
- RS-232C IN (CONTROL & SERVICE) PORT Connect to the RS-232C port on a PC.
- Component Input Connect a component video/audio device to these jacks.
- S-Video Input Connect S-Video out from an S-VIDEO device.
- Euro Scart Socket (AV1/AV2) Connect scart socket input or output from an external device to these jacks.
- Antenna Input Connect over-the-air signals to this jack.

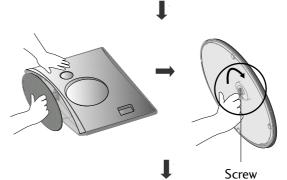
# STAND INSTALLATION

- The image shown may be somewhat different from your set.
- Carefully place the product screen side down on a cushioned surface that will protect product and screen from damage.
- Insert the **stand base** into the product







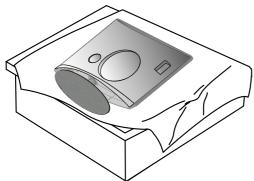




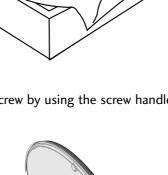
- Attach the monitor to the Stand Base by turning the screw to the right.
  - \* Turn the screw by using the screw handle

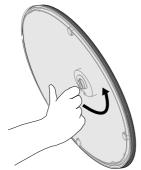
# **DETACHING STAND**

- The image shown may be somewhat different from your set.
- Place the set screen side down on a cushion or soft cloth.



Turn the screw by using the screw handle





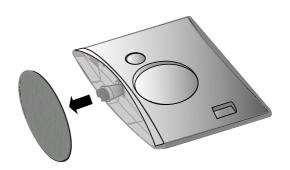




Detach the monitor to the Stand Base by turning the screw to the left.

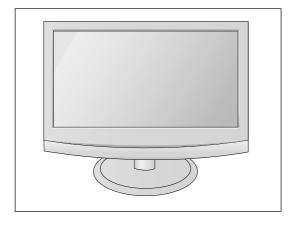


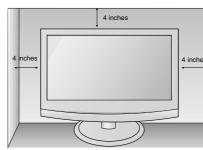
Pull the stand base.

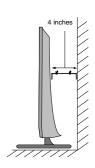


# **DESKTOP PEDESTAL INSTALLATION**

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





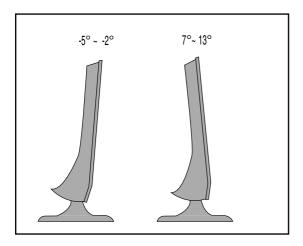


#### POSITIONING YOUR DISPLAY

■ The image shown may be somewhat different from your set.

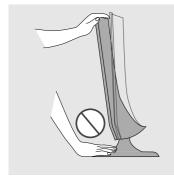
Adjust the position of the panel in various ways for maximum comfort.

#### • Tilt range



# **LOCATION**

Position your set so that no bright light or sunlight falls directly onto the screen. Care should be taken not to expose the set to any unnecessary vibration, moisture, dust or heat. Also, ensure that the set is placed in a position to allow a free flow of air. Do not cover the ventilation openings on the back cover.



#### Warning:

When adjusting the angle of the screen, do not put your finger(s) in between the head of the monitor and the stand body. You can hurt your finger(s).

#### KENSINGTON SECURITY SYSTEM

- The product is equipped with a Kensington Security System connector on the back panel. Connect the Kensington Security System cable as shown below.
- For detailed installation and use of the Kensington Security System, refer to the user's guide provided with the Kensington Security System.

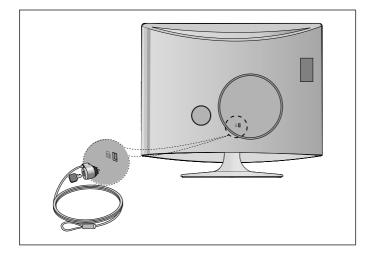
For further information, contact http://www.kensington.com, the internet homepage of the Kensington company. Kensington sells security systems for expensive electronic equipment such as notebook PCs and LCD projectors.

#### NOTE

- The Kensington Security System is an optional accessory.

#### **NOTES**

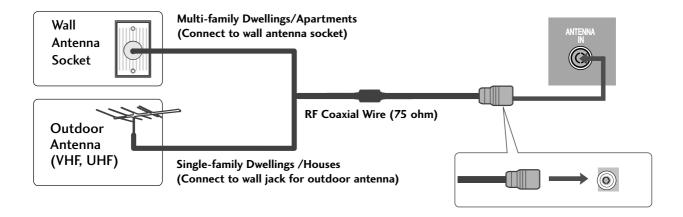
- a. If the product feels cold to the touch, there may be a small "flicker" when it is turned on. This is normal, there is nothing wrong with product.
- b. Some minute dot defects may be visible on the screen, appearing as tiny red, green, or blue spots. However, they have no adverse effect on the monitor's performance.
- c. Avoid touching the LCD screen or holding your finger(s) against it for long periods of time. Doing so may produce some temporary distortion effects on the screen.

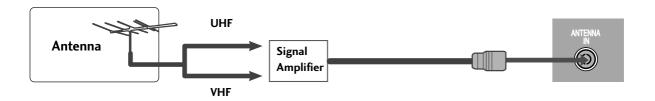


■ To prevent equipment damage, never plug in any power cords until you have finished connecting all equipment.

#### ANTENNA CONNECTION

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





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

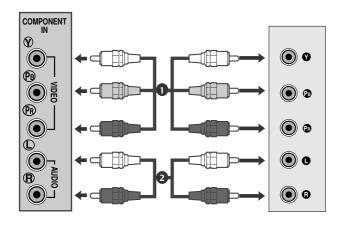
- To prevent the equipment damage, never plug in any power cords until you have finished connecting all equipment.
- The image shown may be somewhat different from your set.

# **HD RECEIVER SETUP**

#### When connecting with a component cable

- Connect the SET-TOP outputs to the COMPONENT IN VIDEO sockets (Y PB PR) on the set.
- Connect the audio cable from the SET-TOP to COMPONENT IN AUDIO sockets of the set.
- 3 Press the INPUT button to select Component.

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



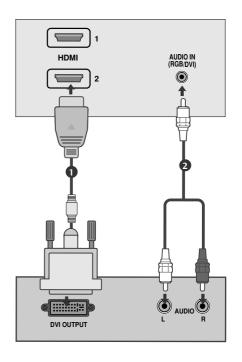
# When connecting with a HDMI

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



# When connecting with a HDMI to DVI cable

- Connect the digital set-top box to **HDMI IN** jack on the set.
- Connect the audio output of the digital set-top box to the AUDIO IN (RGB/DVI) jack on the set.
- Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)



#### **DVD SETUP**

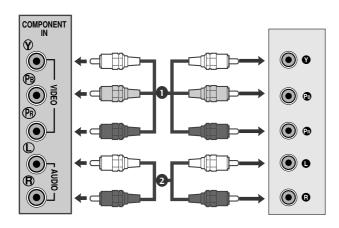
#### When connecting with a component cable

- Connect the video output sockets (Y PB PR) of the DVD to the COMPONENT IN VIDEO sockets (Y PB PR) of the set.
- Connect the audio cable from the DVD to COMPONENT IN AUDIO sockets of the set.
- 3 Press the INPUT button to select Component.
- Press the **PLAY** button on the DVD.
  The DVD playback picture appears on the screen.

#### **Component Input ports**

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

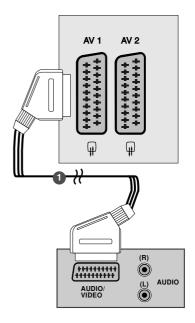
Component ports on the set	Υ	Рв	PR
	Y	Рв	<b>P</b> <sub>R</sub>
Video output ports	Y	B-Y	R-Y
on DVD player	Y	СЬ	Cr
	Y	Pb	Pr



#### When connecting with a Euro Scart[DVD]

- Connect the Euro scart socket of the DVD to the Euro scart socket of the set.
- Press the INPUT button to select AV1.

  If connected to AV2 Euro scart socket, select AV2 input source.
- Press the **PLAY** button on the DVD.
  The DVD playback picture appears on the screen.



#### NOTE

- ➤ Signal type RGB, i.e. the signals red, green and blue can only be selected for the Euro scart and the AV 1 can be received. These signals are transmitted, for example, by a paid TV decoder, game machine or photo CD unit, etc.
- ▶ Please use shielded scart cable.

#### When connecting HDMI cable

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



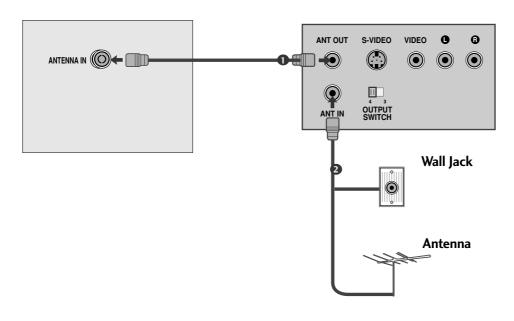
#### NOTE

- ► Set can receive the video and audio signal simultaneously by using a HDMI cable.
- ▶ If the DVD player does not support Auto HDMI, you need to set the DVD output resolution appropriately.

#### **VCR SETUP**

- To avoid picture noise (interference), leave an adequate distance between the VCR and set.
- Typically a still picture is shown on the VCR. If a user uses 4:3 picture format for a long time, an afterimage may remain on the sides of the screen.

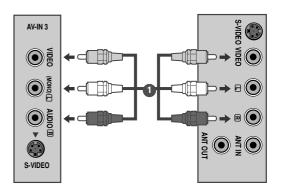
#### When connecting with an antenna



- Connect the RF out socket of the VCR to the aerial socket of the set.
- 2 Connect the aerial cable to the RF aerial in socket of the VCR.
- Store the VCR channel on a desired programme number using the 'Manual programme tuning' section.
- 4 Select the programme number where the VCR channel is stored.
- Press the **PLAY** button on the VCR.

#### When connecting with a RCA cable

- Connect the audio/video out sockets of the VCR to AUDIO/VIDEO in sockets of the set.
- 2 Press the INPUT button to select AV3.
- Press the PLAY button on the VCR.
  The VCR playback picture appears on the screen.

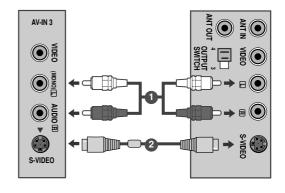


#### NOTE

▶ 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

- Connect the S-Video socket of the VCR to the S-VIDEO socket of the set.
- Connect the audio cable from the S-VIDEO VCR to the AUDIO sockets of the set.
- Press the INPUT button to select AV3.
- Press the PLAY button on the VCR.
  The VCR playback picture appears on the screen.



### **USB SETUP**

- Connect the USB device to the USB IN jacks on the side of set.
- After connecting the USB IN jacks, you use the USB function. (> p.84)



#### When connecting with a Euro Scart[VCR]

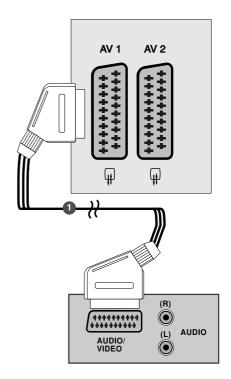
- Connect the Euro scart socket of the VCR to the Euro scart socket of the set.
- Press the PLAY button on the VCR.

  If your VCR outputs an AV switching signal via the Scart lead, the set will auto switch to AV 1 mode on start of playback, but if you want to keep on watching in TV mode, press the ▲ / ▼ or NUMBER buttons.

If connected to AV2 Euro scart socket, select AV2 input source.

Otherwise press the **INPUT** button on the remote control handset to select **AV 1**. The VCR playback picture appears on the screen.

You can also record programmes received by the set on video tape.



#### NOTE

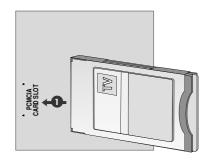
- ➤ Signal type RGB, i.e. the signals red, green and blue can only be selected for the Euro scart and the AV 1 can be received. These signals are transmitted, for example, by a paid TV decoder, game machine or photo CD unit, etc.
- ▶ Please use shielded scart cable.

#### **INSERTION OF CLIMODULE**

- To view the scrambled (paid) services in digital TV mode.
- This feature is not available in all countries.



For further information, see p. 40.

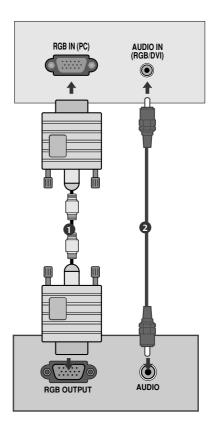


#### **PC SETUP**

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

#### When connecting with a D-sub 15 pin cable

- Connect the signal cable from the monitor output socket of the PERSONAL COMPUTER to the PC input socket of the set.
- Connect the audio cable from the PC to the AUDIO IN (RGB/DVI) sockets of the set.
- Press the INPUT button to select **RGB**.
- 4 Switch on the PC, and the PC screen appears on the set. The set can be operated as a PC monitor.

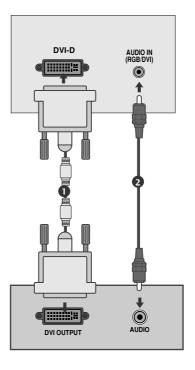


#### NOTE

▶ User must use shielded signal interface cables (D sub 15 pin cable, DVI cable) with ferrite cores to maintain standard compliance for the product.

#### When connecting with a DVI cable

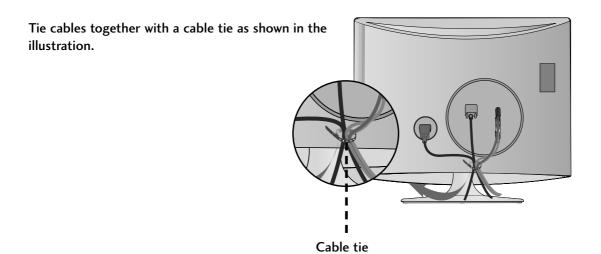
- Connect the DVI output of the PC to the **DVI-D IN** jack on the set.
- Connect the audio cable from the PC to the AUDIO IN (RGB/DVI) sockets of the set.



#### NOTE

- ▶ If the set is cold, there may be a small "flicker" when the set is switched on. This is normal, there is nothing wrong with the set.
- ▶ If possible, use the 1920x1080 @ 60 Hz video mode to obtain the best image quality for your LCD monitor. If used with other resolutions, some scaled or processed pictures may appear on the screen. The set has been preadjusted to the mode 1920x1080 @ 60 Hz.
- ➤ Some dot defects may appear on the screen, like Red, Green or Blue spots. However, this will have no impact or effect on the monitor performance.
- ▶ Do not press the LCD screen with your finger for a long time as this may produce some temporary distortion effects on the screen.
- ▶ Avoid keeping a fixed image on the set's screen for prolonged periods of time. The fixed image may become permanently imprinted on the screen; use a screen saver when possible.

# **BACK COVER FOR WIRE ARRANGEMENT**



# RGB/DVI[PC]

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720x400	31.468	70
640x480	31.469	60
0.10%.100	37.500	75
800x600	37.879	60
	46.875	75
1024 760	48.363	60
1024x768	60.123	75
1152x864	67.500	75
1280×1024	63.981	60
	79.976	75
1680x1050	64.674	60
	65.290	60
1600x1200	75.000	60
1920x1080	66.587	60

#### HDMI[DTV] (Not Support PC)

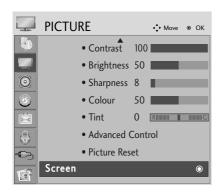
Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720x480/60p	31.47	60
	31.5	60
720x576/50p	31.25	50
1280x720/50p	37.5	50
1280x720/60p	44.96	60
	45	60
1920x1080/60i	33.72	60
	33.75	60
1920x1080/50i	28.125	50
1920x1080/24p	26.97	24
	27	24
1920x1080/30p	33.72	30
	33.75	30
1920x1080/50p	56.25	50
1920x1080/60p	67.43	60
	67.5	60

#### **SCREEN SETUP FOR PC MODE**

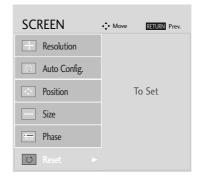
#### Screen Reset

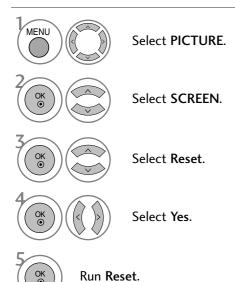
Returns Position, Size and Phase to the default factory settings.

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







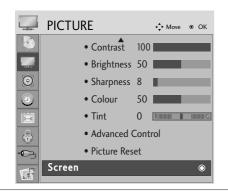


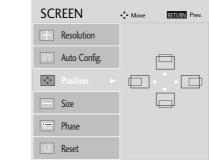
- Press the MENU or EXIT button to close the menu window.
- $\bullet$  Press the RETURN button to move to the previous menu screen.

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

If the picture is not clear after auto adjustment and especially if characters are still shaky, adjust the picture phase manually.

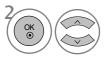
This function works in the following mode: RGB[PC].



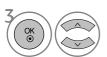




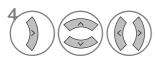
Select PICTURE.



Select SCREEN.



Select Position, Size or Phase.



Make appropriate adjustments.

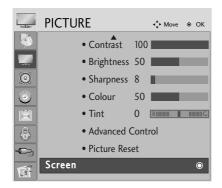
 $\gg$ 

- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

# **Selecting Resolution**

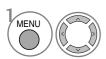
To view a normal picture, match the resolution of RGB mode and selection of PC mode.

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

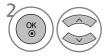




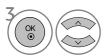




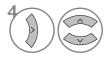
Select PICTURE.



Select SCREEN.



Select Resolution.



Select the desired resolution.

- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

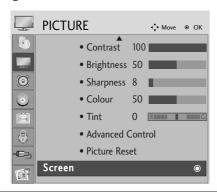
#### Auto Configure (RGB [PC] mode only)

Automatically adjusts picture position and minimizes image instability. After adjustment, if the image is still not correct, your set is functioning properly but needs further adjustment.

#### Auto configure

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

#### 1. Using OSD





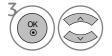




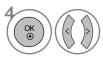




Select SCREEN.



Select Auto Config.



Select Yes.

- If the position of the image is still not correct, try Auto adjustment again.
- If picture needs to be adjusted again after Auto adjustment in RGB (PC), you can adjust the Position, Size or Phase.



Run Auto Config.

#### 2. Using OK(Remocon or control key)

This function is available for RGB signals only.



 If you don't want Auto Configure, do not press 

 OK

Auto in progress
For optimal display
change resolution 1920 x 1080

<Others Resolution>

- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

# DDC CI(Only RGB, DVI mode)

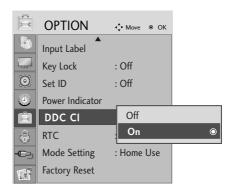
DDC/CI (Display Data Channel Command Interface) is a communication protocol for communications between PC and set.

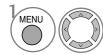
DDC/CI makes it possible to adjust and setup detailed functions on PC instead of the set OSD

Set can be adjusted with PC by connecting communication between PC and set when DDC/CI is ON, and set cannot be adjusted with PC because communication between PC and set is disconnected when DDC/CI is OFF.









Select OPTION.



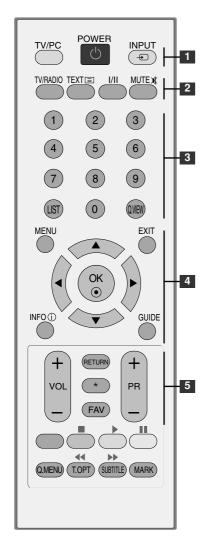
Select DDC CI.



- Press the MENU or EXIT button to close the menu window.
- Press the RETURN button to move to the previous menu screen.

#### REMOTE CONTROL KEY FUNCTIONS

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



POWER Switches the set on off.

TV/PC Selects TV or PC mode. Switches the set on.

INPUT External input mode rotates in regular sequence. Switches the set on.

2 TV/RADIO Selects Radio or TV channel.

I/II Selects the sound output.(Refer to the p.71,72)

MUTE Switches the sound on or off.

3 0~9 number Selects a programme.

button Selects numbered items in a menu.

LIST Displays the programme table. (Refer to the p.41)

Q.VIEW Returns to the previously viewed programme.

MENU Selects a menu.(Refer to the p.30)

EXIT Clears all on-screen displays.

**INFO** ① Shows the present screen information.

GUIDE Shows programme schedule.(Refer to the p.45~47)

THUMBSTICK Allows you to navigate the on-screen menus and adjust (Up/Down/Left/Right) the system settings to your preference.

OK Accepts your selection or displays the current mode.

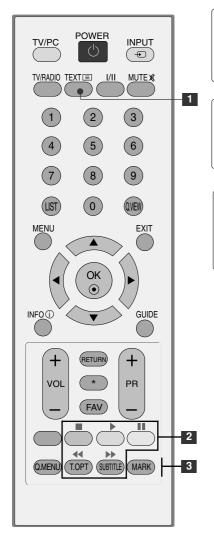
VOLUME UP Adjusts the volume.

**RETURN** Allows the user to move back one step in an interactive application. EPG or other user interaction function.

\* No function

FAV Displays the selected favourite programme. (Refer to the p.36)

Programme Selects a programme. UP/DOWN



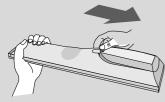
- TELETEXT These buttons are used for teletext.

  BUTTONS For further details, see the 'Teletext' section.

  (Refer to the p.92~94)
- USB Menu Controls USB menu control buttons (Photo List and Music List)
- 3 Q.MENU Select the desired quick menu source.

MARK Check and un-check programmes in the recorded set menu.

# **Installing Batteries**



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

#### TURNING ON THE TV

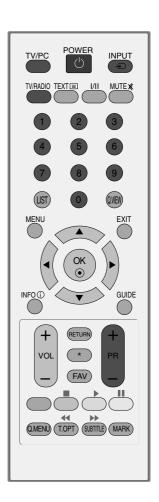
- If your TV is turned on, you will be able to use its features.
- 1 First, connect power cord correctly.
- Turn on power by pressing the power button on the product.
- Press the TV/PC button on the remote control.
- Set the channel by using the PR+ / buttons or number buttons on the remote control.

#### Initializing setup

If the OSD (On Screen Display) is displayed on the screen as figure after turning on the set, you can adjust the Language, Country, Time Zone, Auto programme tuning.

#### Note:

- a. It will automatically disappear after approx. 40 seconds unless a button is pressed.
- b. Press the **RETURN** button to change current OSD into previous OSD.



# **PROGRAMME SELECTION**



Press the **PR** + or - or **NUMBER** buttons to select a programme number.

# **VOLUME ADJUSTMENT**



Press the **VOL** + or - button to adjust the volume.

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

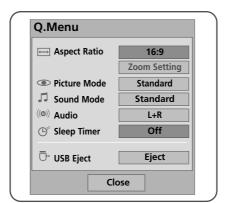
You can cancel this function by pressing the MUTE, VOL + or -, or I/II button.

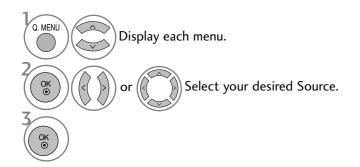


# WATCHING TV /PROGRAMME CONTROL QUICK MENU

Your TV's OSD (On Screen Display) may differ slightly from that shown in this manual. Q.Menu (Quick Menu) is a menu of features which users might use frequently.

- Aspect Ratio: Selects your desired picture format. For Zoom Setting, select 14:9, Zoom and Cinema Zoom in Ratio Menu. After completing Zoom Setting, the display goes back to Q.Menu.
- Picture Mode : Selects your desired Picture Mode.
- **Sound Mode**: It is a feature to automatically set the sound combination which it deems the best for the images being watched. Selects your desired Sound Mode.
- Audio: Selects the sound output.
- Sleep Timer : Sets the sleep timer.
- **USB Eject**: Selects "USB Eject" in order to eject USB device.

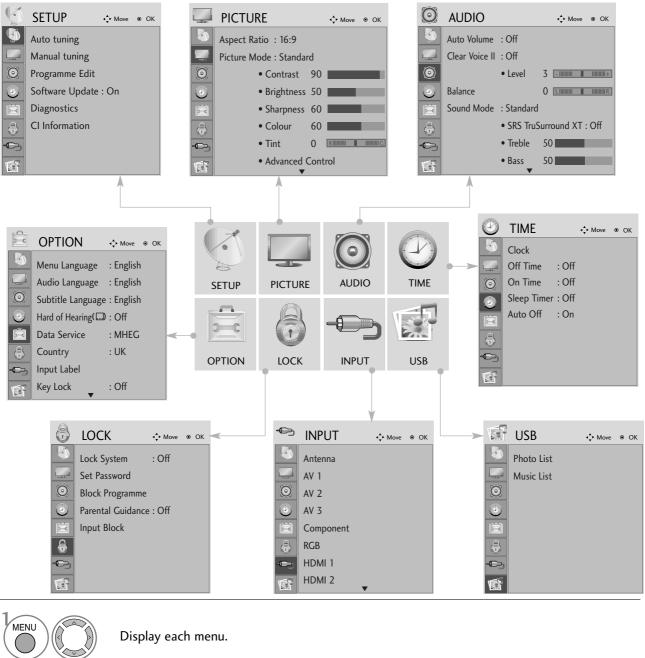




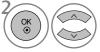
• Press the **RETURN** button to move to the previous menu screen.

# ON SCREEN MENUS SELECTION AND ADJUSTMENT

Your set's OSD (On Screen Display) may differ slightly from what is shown in this manual.







Select a menu item.



Move to the pop up menu.

- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

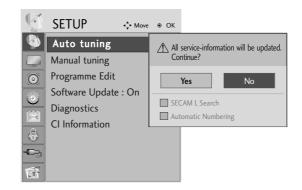
# **AUTO PROGRAMME TUNING**

Use this to automatically find and store all available programmes.

When you start auto programming in digital mode, all previously stored service information will be deleted.





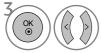




Select SETUP.







Select Yes.



Run Auto tuning.

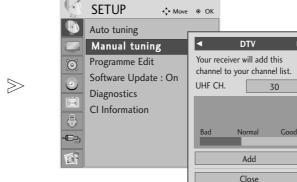
- Use NUMBER buttons to input a 4-digit password in Lock System 'On'.
- If you wish to keep on auto tuning, select YES using the ◀ ▶ button. Then, press the OK button. Otherwise, select NO.

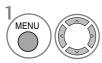
- Press the MENU or EXIT button to close the menu window.
- $\bullet$  Press the RETURN button to move to the previous menu screen.

# MANUAL PROGRAMME TUNING (IN DIGITAL MODE)

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



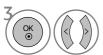




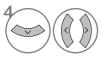
Select SETUP.



Select Manual Tuning.



Select DTV.



Select the desired channel number.

 Use NUMBER buttons to input a 4-digit password in Lock System 'On'.

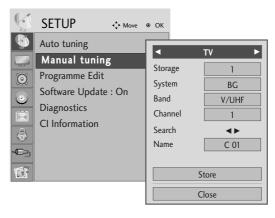
- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

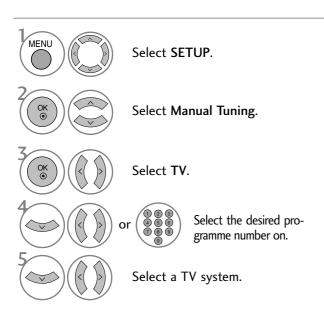
# MANUAL PROGRAMME TUNING (IN ANALOGUE MODE)

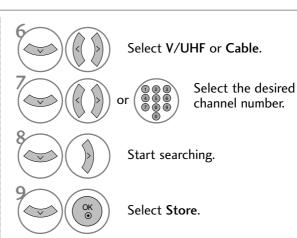
Manual Tuning lets you manually tune and arrange the stations in whatever order you desire.







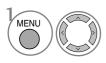




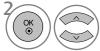
- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.
- Use NUMBER buttons to input a 4-digit password in Lock System 'On'.
- L: SECAM L/L' (France)
   BG: PAL B/G, SECAM B/G (Europe / East Europe / Asia / New Zealand / M. East / Africa / Australia)
   I: PAL I/II (U.K. / Ireland / Hong Kong / South Africa)
   DK: PAL D/K, SECAM D/K (East Europe / China / Africa / CIS)
- To store another channel, repeat steps 4 to 9.

#### ■ Assigning a station name

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



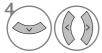
Select **SETUP**.



Select Manual Tuning.



Select TV.



Select Name.



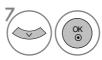


Select the position and make your choice of the second character, and so on.

You can use the alphabet  $\bf A$  to  $\bf Z$ , the number  $\bf 0$  to  $\bf 9$ , +/ -, and space.







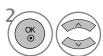
Select Store.

#### **■** Fine Tuning

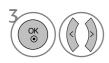
Normally fine tuning is only necessary if reception is poor.



Select SETUP.



Select Manual Tuning.



Select TV.



Select Fine.



Fine tune for the best picture and sound.





Select Store.

- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

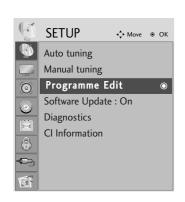
#### PROGRAMME EDIT

When a programme number is skipped, it means that you will be unable to select it using PR + / - button during TV viewing.

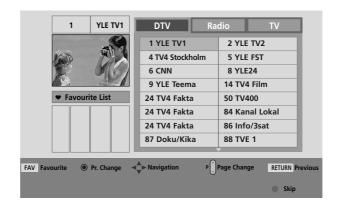
If you wish to select the skipped programme, directly enter the programme number with the NUMBER buttons or select it in the Programme edit menu

This function enables you to skip the stored programmes.

In some countries, it is possible to move a programme number by using the YELLOW button only.

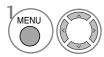




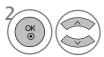


• Use NUMBER buttons to input a 4-digit

password in Lock System 'On'.



Select SETUP.



Select Programme Edit.



Enter the Programme Edit.



Select a programme to be stored or skipped.

- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

#### IN DTV/RADIO MODE

#### ■ Skipping a programme number



Select a programme number to be skipped.



Turn the skipped programme number to blue.



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 wish to select a skipped programme, directly enter the programme number with the NUMBER buttons or select it in the programme edit or EPG.

#### ■ Selecting favourite programme





Select your favourite programme number.

• It will automatically include the selected programme into your favourite programme list.

#### IN TV MODE

This function enables you to delete or skip the stored programmes. You can also move some channels to other programme numbers.

#### ■ Auto Sort



Start Auto Sort.

 After activating Auto Sort once, you can no longer edit programmes.

#### ■ Deleting a programme



Select a programme number to be deleted.



Turn the deleted programme number to red.



Release the deleted programme.

• The selected programme is deleted, all the following programmes are shifted up one

#### ■ Moving a programme



Select a programme number to be moved.





Turn the moved programme number to YELLOW.



Release the moved programme.

#### ■ Skipping a programme number



Select a programme number to be skipped.



Turn the skipped programme number to blue.



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 wish to select a skipped programme, directly enter the programme number with the NUMBER buttons or select it in the programme edit or EPG.

#### ■ Selecting a Favourite Programme





Select your favourite programme number.

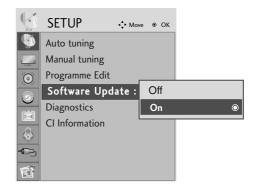
• The selected programme will be added to the favourite programme list.

#### **SOFTWARE UPDATE**

Software Update means software can be downloaded through the digital terrestrial broadcasting system.



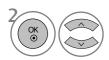








Select SETUP.



Select Software Update.





 If you select On, a user confirm message box will be displayed to notify that new software is found.



Save.

#### \* When setting "Software Update"

Occasionally, a transmission of updated digital software information will result in the following menu on the TV screen.



Select the **YES** using the ◀ ► button and when you see the following picture.



After Software Update is completed, the System takes about one minute to restart.



- During Progress of a Software Update, please note the following:
- Power to the set must not be interrupted.
- The set must not be switched off.
- The antenna must not be disconnected.
- After Software Update, you can confirm the updated software version in Diagnostics menu.

# **DIAGNOSTICS** (IN DIGITAL MODE ONLY)

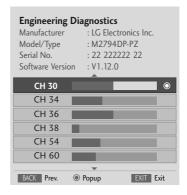
This function enables you to view information on the Manufacturer, Model/Type, Serial Number and Software Version.

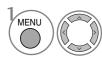
This displays the information and signal strength of the tuned MUX.

This displays the signal information and service name of the selected MUX.

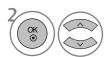








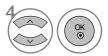
Select SETUP.



Select Diagnostics.



Display Manufacturer, Model/Type, Serial Number and Software Version.



Display the Channel information.

- Press the MENU or EXIT button to close the menu window.
- Press the RETURN button to move to the previous menu screen.

# CI [COMMON INTERFACE] INFORMATION

This function enables you to watch some encrypted services (paid services). If you remove the CI Module, you cannot watch paid services.

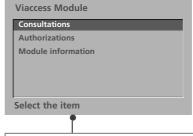
When the module is inserted into the CI slot, you can access the module menu.

To purchase a module and smart card, contact your dealer. Do not repeatedly insert or remove a CAM module from the set. This may cause a malfunction. When the set is turned on after inserting a CI Module, you may not have any sound output.

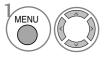
This may be incompatible with the CI module and smart card.

CI (Common Interface) functions may not be possible depending upon the country broadcasting circumstances.





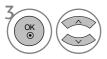
- This OSD is only for illustration and the menu options and screen format will vary according to the Digital pay services provider.
- It is possible for you to change CI (Common Interface) menu screen and service by consulting your dealer.



Select SETUP.



Select CI Information.



Select the desired item: Module information, smart card information, language, or software download, etc.

 $\gg$ 



Save.

- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

## SELECTING THE PROGRAMME TABLE

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



Displayed in the Locked Programme.

#### ■ Displaying programme LIST



Display the PROGRAMME LIST.

- You may find some blue programmes. These 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



Select a programme.



Switch to the chosen programme number.



From the programme you are currently watching, the mode will change from TV to DTV to Radio.

#### ■ Paging through a programme list



Turns the pages.



Returns to normal TV viewing.

#### ■ Displaying the favourite programme table



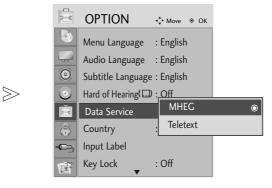
Display the Favourite Programme table.

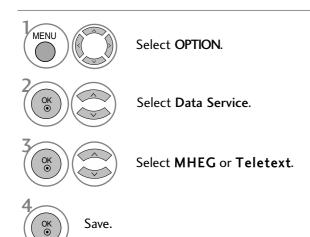
## **DATA SERVICE**

(This menu is enabled only in Ireland.)

This function allow users to choose between MHEG(Digital Teletext) and Teletext if both exist at the same time. If only one of them exists, either MHEG or Teletext is enabled regardless of which option you selected.







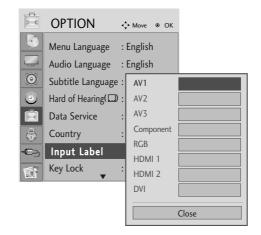
- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

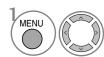
## **INPUT LABEL**

Selects a label for each input source.

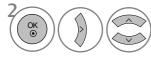




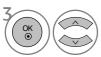




Select **OPTION**.



Select Input Label.



Select the source.



Select the label.

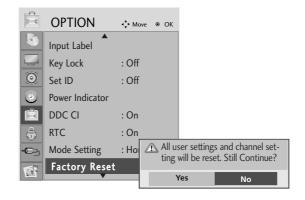
- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

# Initializing (Reset to original factory settings)

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

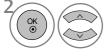
When the Lock System menu is "On", the message to enter the password appears.







Select OPTION.



Select Factory Reset.



- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

# EPG (ELECTRONIC PROGRAMME GUIDE) (IN DIGITAL MODE)

This system has an Electronic Programme Guide (EPG) to help navigate 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).

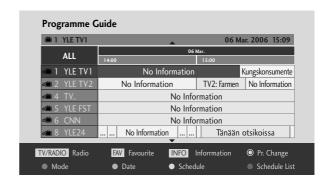
This function can be used only when the EPG information is broadcasted by broadcasting companies.

The EPG displays the programme description for the next eight days.

#### Switch on/off EPG



Switch on or off EPG.



## Select a programme



or PR

Select desired programme.



Display the selected programme.

# EPG (ELECTRONIC PROGRAMME GUIDE) (IN DIGITAL MODE)

#### **Button Function in NOW/NEXT Guide Mode**



Change EPG mode.



Enter Timer Record/Remind setting mode.



Enter Timer Record/Remind list mode.



Change to the selected programme.



Select NOW or NEXT Programme.



Select the Broadcast Programme.



Page Up/Down.



or (EXIT

Switch off EPG.



Select TV or RADIO Programme.



The detail information on or off.

# **Button Function in 8 Day Guide Mode**



Change EPG mode.



Enter Date setting mode.



Enter Timer Record/Remind setting



Enter Timer Record/Remind list mode.



Change to the selected programme.



Select NOW or NEXT Programme.



Select the Broadcast Programme.



Page Up/Down.



or (



Switch off EPG.



Select TV or RADIO Programme.



The detailed information on or off.

## **Button Function in Date Change Mode**



Switch off Date setting mode.



Change to the selected date.



Select a date.



Switch off Date setting mode.



or



Switch off EPG.

# EPG (ELECTRONIC PROGRAMME GUIDE) (IN DIGITAL MODE)

#### **Button Function in Extended Description Box**



Text Up/Down.



Enter Timer Record/Remind setting



The detailed information on or off.



or (

Switch off EPG.

## **Button Function in Record/Remind Setting Mode**

- This function is available only when recording equipment that uses 8 pin recording signalling has been connected to the DTV-OUT terminal, using a SCART cable.



Change to Guide or Timer list mode.



Save Timer Record/Remind.



Select Type, Service, Date or Start/End



Function setting.

#### **Button Function in Schedule List Mode**



Add new Manual Timer setting mode.



Enter Schedule list editing mode.



Delete the selected item.



Change to Guide mode.



Select Schedule list.

# PICTURE SIZE (ASPECT RATIO) CONTROL

You can watch the screen in various picture formats; 16:9, Just Scan, Original, 4:3, 14:9 and Zoom, Cinema Zoom, Full Wide.

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

You can adjust the enlarge proportion using ▲ ▼ button.

This function works in the following signal.

- You can also adjust **Aspect Ratio** in the **RATIO** OSD.
- For Zoom Setting, select **14:9**, **Zoom** and **Cinema Zoom** in Ratio OSD.

#### • 16:9

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



#### • 4:3

The following selection will allow you to view a picture with an original 4:3 aspect ratio, grey bars will appear on both the left and right of the screen.



#### • Original

When your TV receives a wide screen signal, it will automatically change to the picture format broadcast.



#### • 14:9

You can view a picture format of 14:9 or a general TV programme in the 14:9 mode. The 14:9 screen is viewed in the same way as in 4:3, but is magnified to the left and right.



#### • Zoom

The following selection will allow you to view the picture without any alteration, while filling the entire screen. However, the top and bottom of the picture will be cropped.



#### • Cinema Zoom

Choose Cinema Zoom when you wish the picture to be altered, both horizontally extended and vertically cropped. The picture adopting a compromise between alteration and screen coverage.



#### • Just Scan

The following Selection allows you to view the picture in the best quality without loss of original picture in high resolution image.

**Note:** If there is interference in original picture, you can view interference at the edge.



#### • Full Wide

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

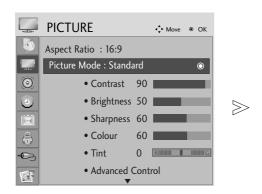


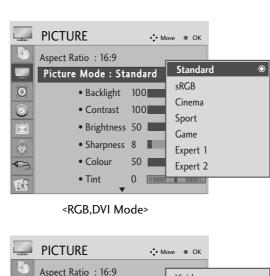
#### NOTE

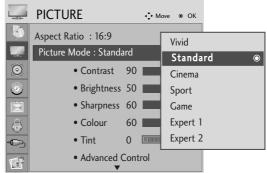
- ▶ You can only select 16:9 (Wide), 4:3, 14:9, Zoom, Cinema Zoom in Component (under 720p) mode.
- ➤ You can only select 4:3, 16:9 (Wide) in RGB/DVI mode only.
- ▶ In HDMI/Component (over 720p) mode, Just Scan is available.
- ▶ You can only select **Original** in UK digital teletext (MHEG-5).

## PRESET PICTURE SETTINGS

#### **Picture Mode-Preset**







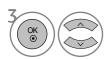
<Other mode>



Select PICTURE.



Select Picture Mode.



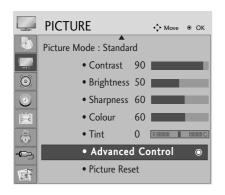
Select desired picture value.

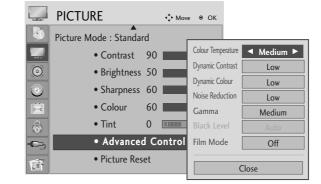
• Picture Mode adjusts the set for the best picture appearance. Select the preset value in the Picture Mode menu based on the programme category.

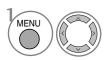
- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

## **Auto Colour Tone Control (Warm/Medium/Cool)**

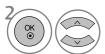
Choose one of three automatic colour adjustments. Set to warm to enhance warm colours such as red, or set to cool to see less intense colours with more blue.



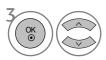




Select PICTURE.



Select Advanced Control.



Select Colour Temperature.



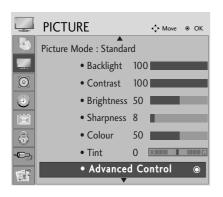
Select either Cool, Medium or Warm.

- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

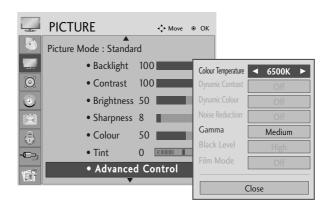
# Auto Colour Tone Control (6500K/9300K) (RGB, DVI mode only)

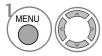
Advanced control menu is inactivated when picture mode is sRGB.

Choose one of two automatic colour adjustments.

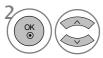




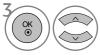




Select PICTURE.



Select Advanced Control.



Select Colour Temperature.

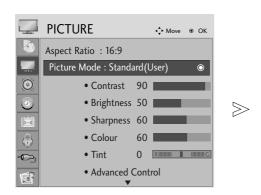


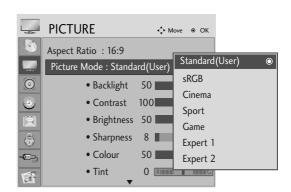
Select either 6500K, 9300K.

- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

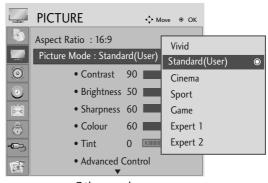
# MANUAL PICTURE ADJUSTMENT

## **Picture Mode-User option**

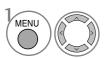




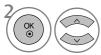
<RGB,DVI Mode>



<Other mode>



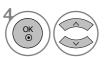
Select PICTURE.



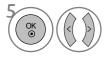
Select Picture Mode.



Select desired picture value.



Select Contrast, Brightness, Sharpness, Colour or Tint.



Make appropriate adjustments.

- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

#### NOTE

▶ You cannot adjust colour, sharpness and tint in the RGB, DVI mode.

# PICTURE IMPROVEMENT TECHNOLOGY

#### **Dynamic Contrast**

Optimizes the contrast automatically according to the brightness of the reflection.

#### **Dynamic Colour**

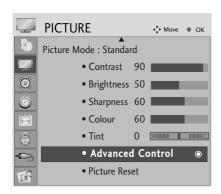
Adjusts the colour of the reflection automatically to reproduce natural colurs as close as possible.

#### **Noise Reduction**

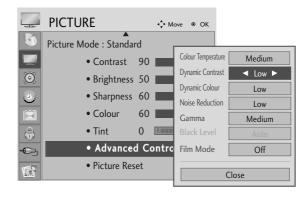
Removes interference up to the point where it does not damage the original picture.

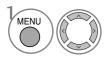
#### Gamma

High gamma values display whitish images and low gamma values display high contrast images.

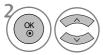




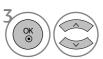




Select PICTURE.



Select Advanced Control.



Select Dynamic Contrast, Dynamic Colour, Noise Reduction or Gamma.



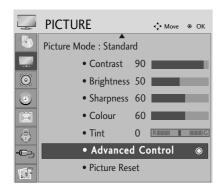
Select your desired Source.

- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

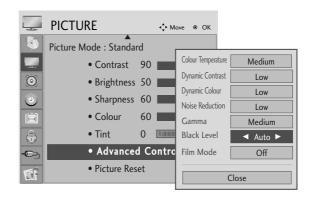
# ADVANCED - BLACK (DARKNESS) LEVEL

When you view a film, this function adjusts the set to the best picture quality.

This function works in the following mode: AV (NTSC-M), HDMI or Component.



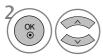




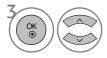


Select PICTURE.

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



Select Advanced Control.



Select Black Level.



Select Low or High.

- Press the MENU or EXIT button to close the menu window.
- $\bullet$  Press the RETURN button to move to the previous menu screen.

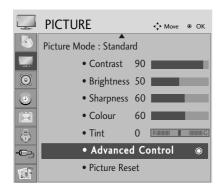
#### NOTE

- ▶ If input is not AV(NTSC-M), HDMI or component, this function set to auto.
- ▶ In case of auto, user can't adjust it directly.
- ▶ Auto: Realizing the black level of the screen and set it to High or Low automatically.

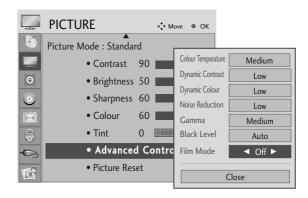
## **ADVANCED - FILM MODE**

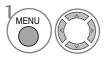
To set the product up for the best picture quality for viewing films.

This feature operates only in TV, AV and Component 480i/576i/1080i mode.

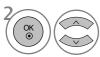




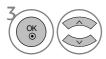




Select PICTURE.



Select Advanced Control.



Select Film Mode.



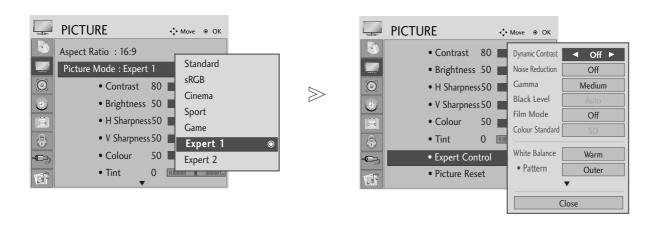
Select On or Off.

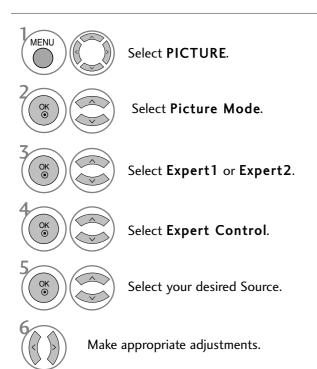
- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

# **Expert Picture Control**

By segmenting categories, Expert1 and Expert2 provide more categories which users can set as they see fit, offering the optimal picture quality for users.

As the detail item for video quality experts to fine tune the video using specific videos, this may not be effective for general videos.



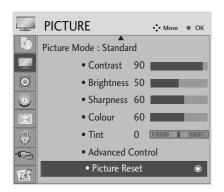


- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

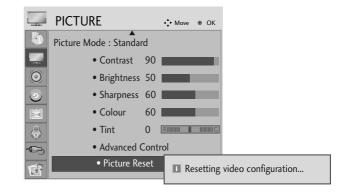
Dynamic Contrast (Off/Low/High)	■ Adjusts the contrast to keep it at the best level according to the brightness of the screen. The resolution of gradation is improved by making bright parts brighter and dark parts darker. This feature refers to dynamic contrast, and enhances the feeling of presence that contrast controls are intended to give by using dimming and other input signals.
Noise Reduction (Off/Low/Medium/High)	Reduces screen noise without compromising video quality. This feature is also used to reduce recursive noise and MPEG noise (Mosquito/Block).
Gamma (Low/Medium/High)	<ul> <li>You can adjust brightness of dark area and middle gray level area of the picture.</li> <li>Low: Make dark and middle gray level area of the picture brighten.</li> <li>Medium: Express original picture gradation.</li> <li>High: Make dark and middle gray level area of the picture darken.</li> </ul>
Black Level (Low/High)	<ul> <li>Low: The reflection of the screen gets darker.</li> <li>High: The reflection of the screen gets brighter.</li> <li>Auto: Realizing the black level of the screen and set it to High or Low automatically.</li> <li>Makes dark parts on the screen look darker.</li> <li>Set black level of the screen to proper level. This function works in the following mode: AV (NTSC-M), HDMI or Component. This function enables to select "Low" or "High" in the following mode: AV(NTSC-M), HDMI or Component. Otherwise, "Black level" is set to "Auto".</li> </ul>
Film Mode (On/Off)	Makes video clips recorded in film look more natural. This feature operates only in TV, AV and Component 480i/576i/1080i mode.
Colour Standard (SD/HD)	<ul> <li>Select the international standard for the colour gamut that will be applied when the colour gamut is set to Standard.</li> <li>SD: Increase colour accuracy by adjusting the output image to meet the EBU (European Broadcasting Union) Colour Coordinate Standard.</li> <li>HD: Increase colour accuracy by adjusting the output image to meet ITU.BT-709 (High Definition Signal International Colour Coordinate Standard).</li> </ul>
White Balance (Medium/Warm/Cool)	<ul> <li>White Balance (Medium/Warm/Cool)</li> <li>Adjust white balance.</li> <li>Pattern (Inner/Outer)</li> <li>Decide whether to use the Inner Pattern or External Pattern when adjusting white balance.</li> <li>Red Gain/Green Gain/Blue Gain</li> <li>Adjust high-level white balance.</li> <li>Red Offset/Green Offset/Blue Offset</li> <li>Adjust low-level white balance.</li> </ul>
Colour Management System	<ul> <li>Colour (Red/Green/Blue/Yellow/Cyan/Magenta)</li> <li>Adjust colour saturation by area.</li> <li>Tint (Red/Green/Blue/Yellow/Cyan/Magenta)</li> <li>Adjust colour tint by area.</li> </ul>

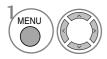
# **PICTURE RESET**

Settings of the selected picture modes return to the default factory settings.

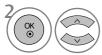








Select PICTURE.



Select Picture Reset.



Initialize the adjusted value.

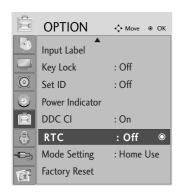
- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

# RTC(Response time control)

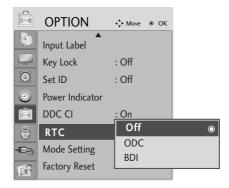
- -ODC (Over Drive Control)
- -BDI (Black Data Insertion)

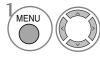
This menu can reduce LCD response time or after image of LCD.

If you set ODC, you enable the response time control function. If you set BDI, you enable the removal afterimage.









Select OPTION.





Select RTC.



- Press the MENU or EXIT button to close the menu window.
- Press the RETURN button to move to the previous menu screen.



► BDI Setting

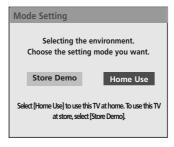
When you selecting BDI, you can't select backlight menu at picture OSD. You can see flickering and dark image but it's the original characteristic of BDI function.

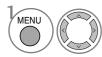
# **MODE SETTING**

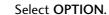
We recommend setting the set to "Home Use" mode for the best picture in your home environment. "Store Demo" mode is an optimal setting for displaying at stores.

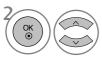












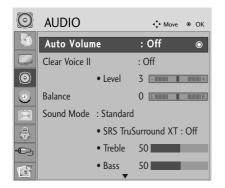
Select Mode Setting.



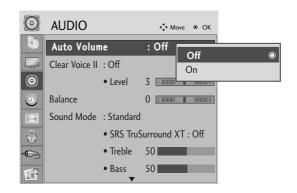
- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

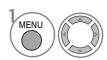
# **AUTO VOLUME LEVELER**

AVL automatically remains on the same volume level if you change programmes.

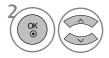




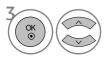




Select AUDIO.



Select Auto Volume.



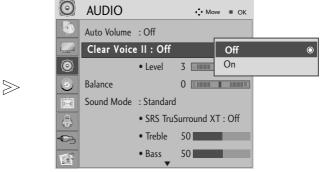
Select On or Off.

- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

## **CLEAR VOICE II**

By differentiating the human sound range from others, it helps users listen to human voices better.

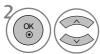




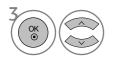
• Select levels from '-6' to '+6'.



Select AUDIO.

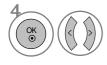


Select Clear Voice II



Select On or Off.

When the Clear Voice II is selected On,

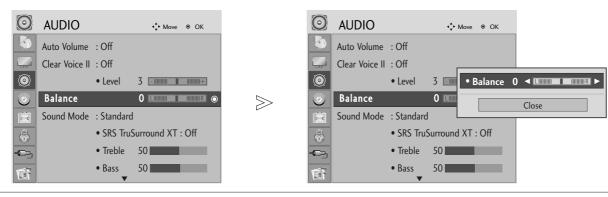


Select the desired Level.

- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

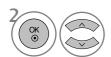
# **BALANCE**

You can adjust the sound balance of the speakers to preferred levels.

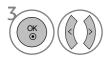




Select AUDIO.



Select Balance.



Make desired adjustment.

- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

## PRESET SOUND SETTINGS - SOUND MODE

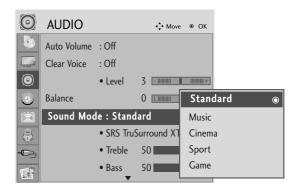
You can select your preferred sound setting; **Standard**, **Music**, **Cinema**, **Sport** and **Game** and you can also adjust the frequency of the equalizer.

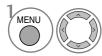
Sound Mode lets you enjoy the best sound without any Special adjustment as the set the appropriate sound options based on the programme content.

Standard, Music, Cinema, Sport and Game are preset for optimum sound quality at the factory.

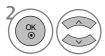




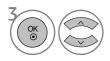




Select AUDIO.



Select Sound Mode.



Select Standard, Music, Cinema, Sport or Game.

- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

# SOUND SETTING ADJUSTMENT - USER MODE

Adjusting the audio equalizer.







Select AUDIO.



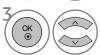
Select a Treble, Bass.



Select Sound Mode.



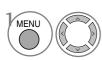
Set the desired sound level.



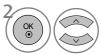
Select Standard, Music, Cinema, Sport or Game.

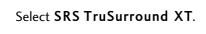
## SRS TRUSURROUND XT

Select this option to sound realistic.



Select AUDIO.





• **SRS TruSurround XT**: TruSurround XT is a patented SRS technology that solves the problem of playing 5.1 multicannel content over two speakers.



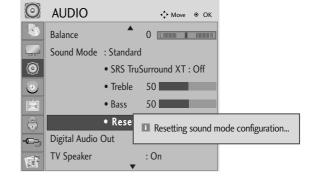
Select On or Off.

- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.
- ► SIS is a trademark of SRS Labs, Inc.
- ▶ TruSurround XT technology is incorporated under license from SRS Labs, Inc.

# **AUDIO RESET**

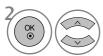
Settings of the selected Sound Mode return to the default factory settings.







Select AUDIO.



Select Reset.



Initialize the adjusted value.

- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

#### **SELECTING DIGITAL AUDIO OUT**

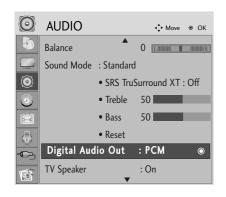
This function allows you to select your preferred Digital Audio Output.

The TV can only output DOLBY Digital if a channel is broadcast with Dolby Digital audio.

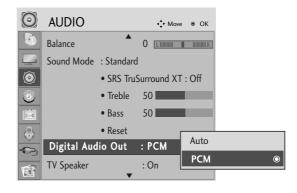
When Dolby digital is available, selecting Dolby Digital in the Digital Audio Out menu will set SPDIF output to **Dolby Digital** 

If Dolby Digital is selected in the digital audio out menu when dolby digital is not available, SPDIF output will be

Even if both Dolby Digital and Audio language have been set in a channel which broadcast Dolby Digital Audio, only Dolby Digital will be played.



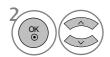




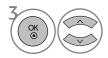




Select AUDIO.



Select Digital Audio Out.



Select Auto or PCM.



Manufactured under license from Dolby Laboratories. "Dolby "and the double-D symbol are trademarks of Dolby Laboratories.

• There is a possibility that when HDMI mode, some DVD players do not make SPDIF sound. At that time, set the output of the digital audio of the DVD player to PCM.

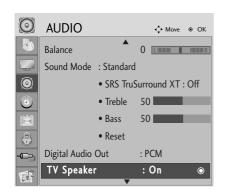
- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

# TV SPEAKERS ON/ OFF SETUP

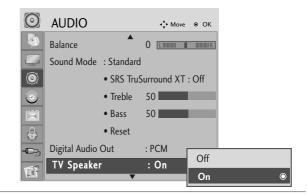
You can adjust the internal speaker status.

In COMPONENT, AV3 the TV speaker can be operational even when there is no video signal.

If you wish to use an external Hi-Fi system, turn off the TV internal speakers.



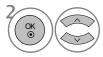




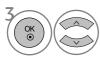




Select AUDIO.



Select TV Speaker.



Select On or Off.

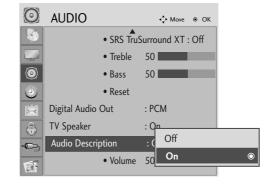
- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

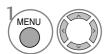
# AUDIO DESCRIPTION (IN DIGITAL MODE ONLY)

This function is for the blind, and provides explanatory audio describing the current situation in a TV programme in addition to the basic audio.

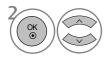
When Audio Description On is selected, basic audio + Audio Description are provided only for those programmes that have Audio Description included.



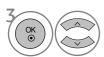




Select AUDIO.

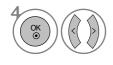


Select Audio Description.



Select On or Off.

When the **Audio Description** is selected **On**,



Select the desired Volume.

- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

#### 1/11

# 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.



Select the sound output.

Broadcast	On Screen Display
Mono	MONO
Stereo	STEREO
Dual	DUAL I, DUAL II, DUAL I+II

#### ■ Mono sound selection

If the stereo signal is weak in stereo reception, you can switch to mono. In mono reception, the clarity of sound is improved.

#### ■ Language selection for dual language broadcast

If a programme can be received in two languages (dual language), you can switch to DUAL I, DUAL II or DUAL I+II.

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.

# **SOUND & LANGUAGE CONTROL**

## **NICAM Reception (In Analogue Mode Only)**

If the set is equipped with the receiver for NICAM reception, high quality NICAM (Near Instantaneous Companded 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.

- When NICAM mono is received, you can select NICAM MONO or FM MONO.
- When NICAM stereo is received, you can select NICAM STEREO or FM MONO. If the stereo signal is weak, switch to FM mono.
- 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, Component, RGB and HDMI, 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.

# **SOUND & LANGUAGE CONTROL**

# ON-SCREEN MENU LANGUAGE / COUNTRY SELECTION

The installation guide menu appears on the TV screen when it is switched on for the first time.



Select your desired language.



Select your country.

\* If you want to change Language/ Country selection



Select OPTION.



Select Menu Language or Country.



Select your desired language or country.



Save.

- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

#### NOTE

- ▶ If you do not finish the set-up Installation Guide by pressing EXIT or if you time out on the OSD (On Screen Display) the installation menu will continuously appear whenever the set is switched on until the set up is completed.
- ▶ If you select the wrong local country, teletext may not appear correctly on the screen and some problems may occur during teletext operation.
- ▶ The CI (Common Interface) function may not be applied based on country broadcasting circumstances.
- ▶ DTV mode control buttons may not function based on country broadcasting circumstances.
- ▶ In countries that Digital broadcasting regulation isn't fixed, some DTV functions may not work depending on digital broadcasting circumstances.

# **SOUND & LANGUAGE CONTROL**

# LANGUAGE SELECTION (IN DIGITAL MODE ONLY)

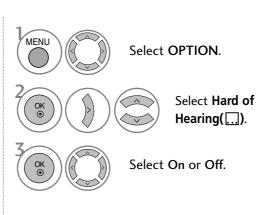
The Audio function allows selection of a preferred language.

If audio data in a selected language is not broadcast, the default language audio will be played.

Use the Subtitle function when two or more subtitle languages are broadcast. If subtitle data in a selected language is not broadcast, the default language subtitle will be displayed.

When the languages you selected as the primary for Audio Language and Subtitle Language are not supported, you can select language in secondary category.





• Press the **RETURN** button to move to the previous menu screen.

#### < Audio Language Selection >

► When two or more audio languages are broadcast, you can select the audio language.

Audio Language OSD Information				
Display	Status			
N.A	Not Available			
MPEG	MPEG Audio			
DIE	Dolby Digital Audio			
₽.>>	Audio for "Visual Impaired"			
ABC	Audio for "Hearing Impaired"			

Subtitle Language OSD Information

Status

#### < Subtitle Language Selection >

- ▶ When two or more subtitle languages are broadcast, you can select the subtitle language with the **SUBTITLE** button on the remote control.
- ▶ Press the ▲ ▼ button to select a subtitle language.
- N.A Not Available

  Teletext Subtitle
  elect a subtitle language.

  N.A Not Available

  Subtitle for "Hard of Hearing"

Display

- The audio/subtitles can be displayed in a simpler form with 1 to 3 characters broadcast by the service provider.
- When you select supplementary Audio (Audio for "Visual/Hearing Impaired") it may output a part of the Main audio.

# **CLOCK SETUP**

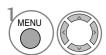
The clock is set automatically when receiving a digital signal. (You can set the clock manually only if the set has no DTV signal.)

 $\gg$ 

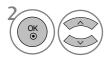
You must set the time correctly before using on/off timer function.



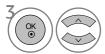




Select TIME.



Select Clock.



Select either the year, date, or time option.



Set the year, date, and time options.

- Press the MENU or EXIT button to close the menu window.
- $\bullet$  Press the <code>RETURN</code> button to move to the previous menu screen.

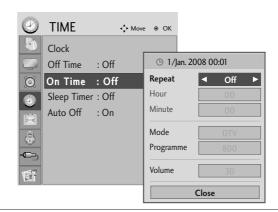
### **AUTO ON/OFF TIMER SETTING**

The Off time function automatically switches the set to standby at a 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.

The Off time function overrides the On timer function if both are set to the same time. The set must be in standby mode for the On timer to work.

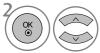




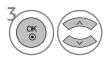




Select TIME.



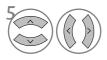
Select Off time or On time.



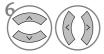
Select Repeat.



Select Off, Once, Daily, Mon ~ Fri, Mon ~ Sat, Sat ~ Sun or Sun.



Set the hour.



Set the minutes.

• To cancel On/Off Time function, select Off.
• For On Time function only

Select Mode.

Select TV, DTV or Radio.

Set the programme.

Adjust volume level at switch-on.

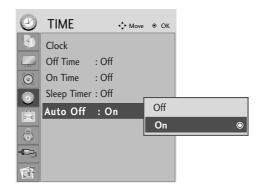
- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

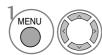
# **AUTO SHUT-OFF SETTING**

If the set is switched on and there is no input signal, it will switch off automatically after 10 minutes.

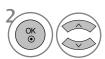




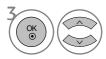




Select TIME.



Select Auto Off.

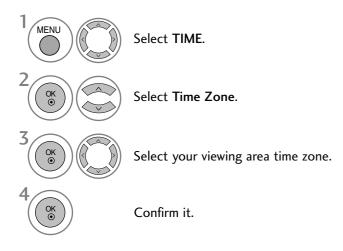


Select Off or On.

- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

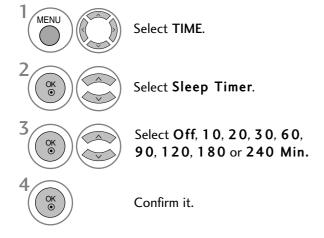
# TIME ZONE SETUP

When you select a Time Zone city, the TV time is set by the time offset information based on Time Zone and GMT (Greenwich Mean Time) which is received with the broadcast signal and the time is set automatically by a digital signal.



# **SLEEP TIMER SETTING**

You do not have to remember to switch the set off before you go to sleep. The sleep timer automatically switches the set off after the preset time has elapsed.



- When you switch the set off, the preset sleep time is cancelled.
- You can also adjust Sleep Timer in the TIME menu.

# SET PASSWORD & LOCK SYSTEM

Enter the password, press '0', '0', '0', '0' on the remote control handset.

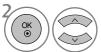












Select Lock System.



Select On.



Set the password.



Input a 4-digit password.

Be sure to remember this number!

Re-enter new password to confirm.

• If you forget your password, press '7', '7', '7' on the remote control handset.

- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

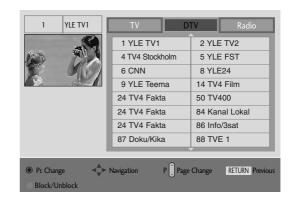
# **BLOCK PROGRAMME**

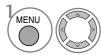
Blocks any programmes that you do not want to watch or that you do not want your children to watch.

This function is available in Lock System "On".









Select LOCK.



Select Block Programme.



Enter the Block Programme.



Select a programme to be locked.

- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

# PARENTAL CONTROL (IN DIGITAL MODE ONLY)

This function operates according to information from the broadcasting station. Therefore if the signal has incorrect information, this function does not operate.

A password is required to gain access to this menu.

This set is programmed to remember which option it was last set to even if you switch the set off.

Prevents children from watching certain adult's TV programmes, according to the ratings limit set.

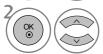




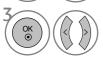




Select LOCK.



Select Parental Guidance.



Make appropriate adjustments.



Save

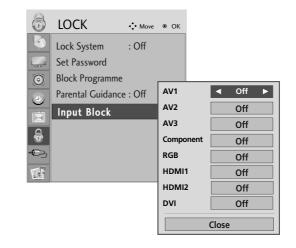
- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

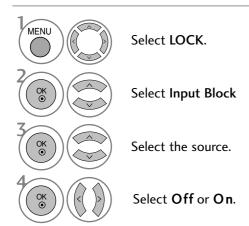
 $\gg$ 

# **INPUT BLOCK**

Enables you to block an input.







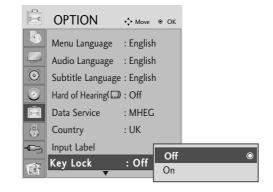
- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

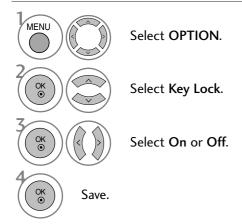
### **KEY LOCK**

The set can be configured so that the remote control is required to control it. This feature can be used to prevent unauthorized viewing.









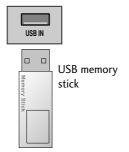
- In Key Lock 'On', if the set is turned off, press the ① / I, INPUT, PR ▲ ▼ button on the TV or POWER, INPUT, PR + or NUMBER buttons on the remote control.
- With the Key Lock On, the display 'Key Lock On' appears on the screen if any button on the front panel is pressed while viewing the TV.

- Press the MENU or EXIT button to close the menu window.
- Press the RETURN button to move to the previous menu screen.

### When connecting a USB device

When you connect a USB device, this pop up menu is displayed, automatically. If the Pop Up menu does not appear, you can select Music List or Photo List in the USB menu. "POP UP MENU" will not be displayed while the OSD including Menu, EPG or Schedule list is activated. In USB device, you can not add a new folder or delete the existing folder.

1 Connect the USB device to the **USB IN** jack on the rear of TV.





Select PHOTO LIST or MUSIC LIST.





#### When removing the USB device

Select the USB Eject menu before removing the USB device.







#### Precautions when using the USB device

- ▶ Only a USB storage device is recognizable.
- ▶ If the USB storage device is connected through a USB hub, the device is not recognizable.
- ▶ A USB storage device using an automatic recognition programme may not be recognized.
- ▶ A USB storage device which uses its own driver may not be recognized.
- ▶ The recognition speed of a USB storage device may depend on each device.
- ▶ Please do not turn off the TV or unplug the USB device when the connected USB storage device is working. When such device is suddenly separated or unplugged, the stored files or the USB storage device may be damaged.
- ▶ Please do not connect the USB storage device which was artificially maneuvered on the PC. The device may cause the product to malfunction or fail to be played. Never forget to use only a USB storage device which has normal music files or image files.
- ▶ Please use only a USB storage device which was formatted as a FAT16, FAT32, NTFS file system provided with the Windows operating system. In case of a storage device formatted as a different utility programme which is not supported by Windows, it may not be recognized.
  - Data in a USB storage device cannot be deleted in the NTFS file system.
- ▶ Please connect power to a USB storage device which requires an external power supply. If not, the device may not be recognized.
- ▶ Please connect a USB storage device with cable is offered by USB maker. If connected with cable is not offered by USB maker or an excessively long cable, the device may not be recognized.
- ▶ Some USB storage devices may not be supported or operated smoothly.
- ▶ Maximum of 999 files and folders can be recognized.
- ▶ Data in a USB storage device cannot be aligned.
  - Up to 128 English characters can be recognized as a file name.
- ▶ Please back up the important file because a data of USB device may be damaged. Data management is consumer's responsibility and in consequence the manufactures does not cover the product bearing data damage.

# PHOTO LIST

The On Screen Display may be different from your TV. Images are an example to assist with the TV operation.

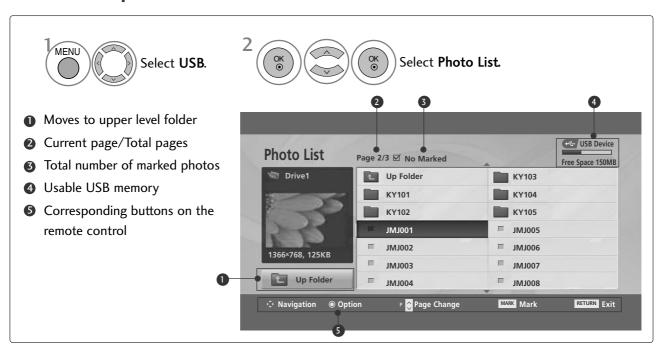
#### PHOTO(\*.JPEG) supporting file

Baseline: 15360 x 8640

Progressive format : 1024 × 768
• You can play JPEG files only.

- Only baseline scan is supported among JPEG (SOF0, SOF1 only).
- Non-supported files are displayed in the form of bitmap.

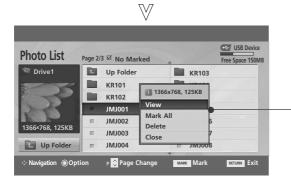
# **Screen Components**



• Press the **RETURN** button to close the menu window.

# Photo Selection and PopUp Menu





- ▶ View : Display the selected item.
- ► Mark All : Mark all photos on the screen.
- ▶ Unmark All : Deselect all marked photos.
- ▶ **Delete** : Delete the selected photo item.
- ► Close : Close the pop-up menu.

- Select the target folder or drive.
- Select the desired photos.
- 3 Show the PopUp menu.
- Select the desired PopUp menu.

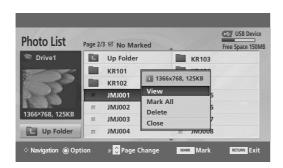
- Use the **P** ∧ ∨ button to navigation in the photo page.
- Use the MARK button to mark or unmark a photo. When one or more photos are marked, you can view individual photos or a slide show of the marked photos. If no photos are marked, you can view all photos individually or all photos in the folder in a slide show.

# Set up the menu in Full-Sized Screen

You can change the settings to display photos stored on a USB device, on a full-sized screen. Detailed operations are available on full-sized photo view screen.











The aspect ratio of a photo may change the size of the photo displayed on the screen in full size.

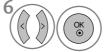
Press the **RETURN** button to move to the previous menu screen.

- Select the target folder or drive.
- Select the desired photos.
- 3 Show the PopUp menu.
- Select View.
- The selected photo is displayed in full size.

 Use the P ∧ ∨ button to navigation in the photo page.

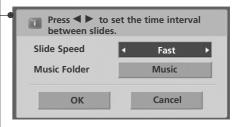
• Press the RETURN button to close the menu window.





Select the Slideshow, BGM, U (Rotate), Delete, Option or Hide.

- Use < > button to select the previous or next photo.
- Use < > button to select and control the menu on the full-sized screen.
- ► Slideshow: When no picture is selected, all photos in the current folder are displayed during slide show. When selected, the selected photos are displayed during slide show.
  - Set the time interval of the slide show in **Option**.
- ▶ BGM : Listen to music while viewing photos in full size.
  - Set the BGM device and album in **Option** .
- ▶ **U**(Rotate) : Rotate photos.
  - Rotates the photo 90°, 180°, 270°, 360°clockwise.
- ▶ **Delete** : Delete photos.
- ► OPTION : Set values for Slide Speed and Music Folder.
  - Use ◆ ▶ ▲ ▼ button and **OK** button to set values. Then go to OK and press **OK** to save the settings.
  - You cannot change **Music Folder** while BGM is playing.
- ► **Hide**: Hide the menu on the full-sized screen.
  - To see the menu again on the full-sized screen, press **OK** button to display.



# **MUSIC LIST**

Purchased music files(\*.MP3) may contain copyright restrictions. Playback of these files may not be supported by this model.

Music file on your USB device can be played by this unit.

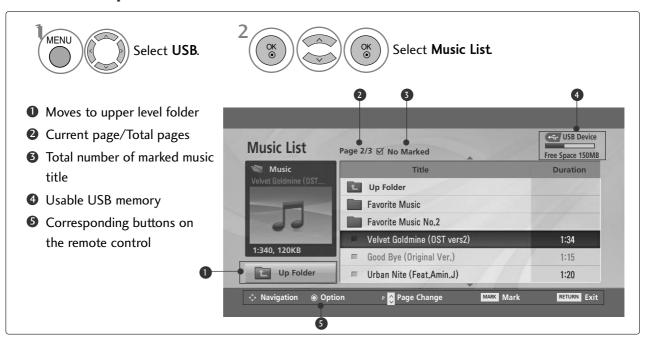
The On Screen Display may be different from your TV. Images are an example to assist with the TV operation

MUSIC (\*.MP3) supporting file

Bit rate 32 ~ 320kbps

• Sampling rate MPEG1 layer 3: 32 kHz, 44.1 kHz, 48 kHz.

## **Screen Components**



• Press the **RETURN** button to close the menu window.

### Music Selection and PopUp Menu

As shown, up to 6 music titles are listed per page.

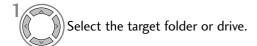




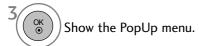


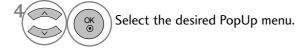
- ▶ Play (During stop): Play the selected music titles.

  Once a music finishes playing, the next selected one will be played. When there are no selected music titles to play, the next one in the current folder will be played. If you go to a different folder and press the OK button, the current music in playback will stop.
- ▶ Play Marked: Play the selected music titles. Once a music finishes playing, the next selected one will be played automatically.
- ► Stop Play (During playback) : Stop the playing music titles.
- ▶ Play with Photo: Start playing the selected music titles and then move to the Photo List.
- ▶ Mark All : Mark all music titles in the folder.
- ► Unmark All : Deselect all marked music titles.
- ▶ **Delete** : Delete the selected music titles.
- ► Close : Close the pop-up menu.









- Use the P ∧ ∨ button to navigation in the music page.
- Use MARK button to mark or unmark a music. When one or more music files are marked, the marked music title will be played in sequence. For example, if you want to listen to only one music repeatedly, just mark the music only and play it. If no music is marked, all the music in the folder will be played in sequence.

• Press the **RETURN** button to close the menu window.

- If you don't press any button for a while during the playing, the play information box (as shown in the below) will float as a screen saver.
- The 'Screen Saver'? Screen saver is to prevent screen pixel damage due to an fixed image remaining on the screen for a extended period of time.



#### NOTE

- ▶ When music is playing, ♪ is displayed in back of the music title.
- ▶ A damaged or corrupted music does not play but displays 00:00 in playtime.
- ▶ A music downloaded from a paid service with copyright protection does not start but displays inappropriate information in playtime.
- ▶ If you press **OK**, buttons, screen saver is stopped.
- ► The PLAY(►) Pause(II) ► → buttons on the remote control are also available in this mode.
- ▶ You can use the ▶▶ button to select the next music and the ◀◀ button to select the previous music.

## Using the remote control

<b>◄</b> / <b>▶▶</b>	When playing, repeatedly, press the REW(◄◄) button to speed up ◄◄ -> ◀◀◀ -> ◀◀◀ ->  □ repeatedly, press the FF(▶▶) button to speed up ▶►-> ▶▶▶ -> ▶▶▶▶  □ Pressing these buttons repeatedly increases the fast forward/reverse speed.
П	During playback, press the <b>Pause(II)</b> button.  Still screen is displayed.
< >	■ When using the 〈 or 〉 button during playback a cursor indicating the position can be viewed on the screen.
PLAY(►)	Press the <b>PLAY(▶)</b> button to return to normal playback.

# **TELETEXT**

#### This feature is not available in all countries.

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 set 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. The previous mode reappears.

#### SIMPLE TEXT

#### ■ Page selection

- 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+ or button can be used to select the previous or next 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

- 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.
- 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.
- ◆ The red button permits you 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.

### **TELETEXT**

### **FASTEXT**

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

- Page selection
- 1 Press the Ei button to select the index page.
- 2 You can select the pages which are colour coded along the bottom line with the same coloured buttons.
- 3 Corresponding to the SIMPLE teletext mode, you can select a page by entering its three digit page number with the NUMBER buttons in FASTEXT mode.
- ◆ The PR+ or button can be used to select the previous or next 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.



#### **■** UPDATE

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.



#### **■** TIME

When viewing a TV programme, press this button to display the time at the top right hand corner of the screen. Press this button again to remove the display. In 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 - or NUMBER buttons.

Press again to exit this function.



#### ■ HOLD

Stops the automatic page change which will occur if a teletext page consists of two 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.

# **DIGITAL TELETEXT**

#### \*This function works in UK only.

The set gives you access to a digital teletext which is greatly improved in various aspects such as text, graphics and so on.

This digital teletext can be accessed by special digital teletext services and specific services which broadcast digital teletext.

You should select off from the subtitle language to display teletext by pressing SUBTITLE button.

### TELETEXT WITHIN DIGITAL SERVICE

- Press the numeric or PR + or button to select a digital service which broadcasts digital teletext.

  To know which are digital teletext services, refer to the EPG service list.
- Follow the indications on digital teletext and move onto the next step by pressing TEXT, OK, ▲ or ▼, ◀ or ▶, RED, GREEN, YELLOW, BLUE or NUMBER buttons and so on.
- To change digital teletext service, just select a different service by the numeric or PR + or button.

If pressing the MENU, GUIDE or INFO i button, the teletext service disappear temporarily. When pressing these buttons again, the teletext service is appeared.



# TELETEXT IN DIGITAL SERVICE

- Press the numeric or PR + or button to select a certain service which broadcasts digital teletext.
- Press the TEXT or colour button to switch on teletext.
- Follow the indications on digital teletext and move onto the next step by pressing OK, ▲ or ▼, ◄ or ▶, RED, GREEN, YELLOW, BLUE or NUMBER buttons and so on.
- Press the TEXT or colour button to switch off digital teletext and return to TV viewing.

Some services may allow you to access text services by pressing the **RED** button.

If pressing the MENU, GUIDE or INFO (i) button, the teletext service disappears temporarily. When pressing these buttons again, the teletext service is appears.



# **TROUBLESHOOTING**

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

The video function does	s not work.
No picture &No sound	<ul> <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>
Picture appears slowly after switching on	■ 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.
No color, poor colour, or poor picture	<ul> <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>
Horizontal/vertical bars or picture shaking	■ Check for local interference such as an electrical appliance or power tool.
Poor reception on some channels	<ul> <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>
Lines or streaks in pictures	■ Check antenna (Change the direction of the antenna).

The audio function does not work.				
Picture OK & No sound	<ul> <li>Press the VOL + or - button.</li> <li>Sound muted? Press MUTE 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	■ Adjust <b>Balance</b> in menu option.			
Unusual sound from inside the product	A change in ambient humidity or temperature may result in an unusual noise when the product is turned on or off and does not indicate a problem with the product.			

# Only RGB/DVI mode applied

No image is displayed.	
Power is on, power indictor is blue but the screen appears extremely dark.	■ Adjust brightness and contrast again.
Does the power indica- tor look amber?	■ If the product is in power saving mode, move the mouse or press any key.
Does the 'Out of range' message appear?	The signal from the PC (Video card) is out of the vertical or horizontal frequency range of the product. Adjust the frequency range by referring to the Specifications in this user's guide.
Does the 'Check signal cable' message appear?	<ul> <li>The signal cable between PC and product is not connected. Check the signal cable.</li> <li>Press the 'INPUT' button in the remote control to check the input signal.</li> </ul>

#### 'Unknown Product' message appears when the product is connected.

Did you install the driver?

- Install the product driver, which is provided with the product, or download it from the web site. (http://www.lge.com)
- See if the plug\_&\_play function is supported by referring to the video card user's guide.

#### After-image appears on the product.

After-image appears when the product is turned off.

If you use a fixed image for a long time, the pixels may be damaged quickly.
Use the screen saver function.

#### Screen color is abnormal.

Screen has poor color resoluion (16\_colors).

Set screen color resolution to more than 24 bits (true color)
 Select control Panel-Display-Settings-Color Table menu in Windows.

Screen color is unstable or mono color.

■ Check the connection status of the signal cable.

Do back spots appear on the screen?

Several pixels (red, green, white or black color) may appear on the screen, which can be attributable to the unique characteristics of the LCD panel.
It is not a malfunction of the LCD.

# Only RGB mode applied

#### The screen image looks abnormal.

Is the screen position wrong?

- Adjust the Position menu in OSD.
- See if the video card resolution and frequency are supported by the product. If the frequency is out of range, set to the recommended resolution in the Control Panel-Display-Setting menu.

Do thin lines appear on the background screen?

Adjust the Clock menu in OSD.

Horizontal noise appears or the characters look blurred.

Adjust the Phase menu in OSD.

### **MAINTENANCE**

Early malfunctions can be prevented. Careful and regular cleaning can extend the amount of time you can enjoy your new set.

Caution: Be sure to turn the power off and unplug the power cord before you begin any cleaning.

### **Cleaning the Screen**



To keep the dust off your screen for a while, wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dishwashing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen.

2 Make su

Make sure the excess water is off the screen, and then let it air-dry before you turn on your set.

# **Cleaning the Cabinet**

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

#### **Extended Absence**

#### **A** CAUTION

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

# **PRODUCT SPECIFICATIONS**

LCD Panel	Screen Type	27 inches Wide (686 mm) TFT (Thin Film Transistor) LCD (Liquid Crystal Display) Panel				
	Pixel Pitch	Visible diagonal size: 686 mm  0.3114(H) x 0.3114(V) mm				
Video Signal	Max. Resolution	1920 X 1080 @60 Hz				
	Recommended Resolution	1920 X 1080 @60 Hz				
	Horizontal Frequency	30 - 83 kHz				
	Vertical Frequency	56 - 75 Hz				
	Synchronization Type	Separate Sync, Digital				
Input Connector		TV, D-Sub Analog, SCART*2, PC Audio In, component, DVI-D, HDMI*2, CVBS, S-VIDEO				
Power	Rated Voltage	AC 100-240V ~ 50/60 Hz 1.2A				
	Power Consumption	On Mode : 120W (typ.)  Sleep Mode ≤ 1W (RGB)  Off Mode ≤ 1W				
Tilt	Tilt Range	-5 ~ 10°				
Swivel	Swivel Range	358°				
Dimensions (Width Weight	x Height x Depth)	654.1 x 494.6 x 210 mm (25.75 x 19.47 x 8.27 inches) 8.92 kg / 19.66 lbs				
Environmental	Operating Temperature Operating Humidity	10 ~ 35°C 20 ~ 80%				
conditions	Storage Temperature Storage Humidity	-10 ~ 60°C 5 ~ 90%				

 $<sup>\</sup>blacksquare$  The specifications shown above may be changed without prior notice for quality improvement.

### PROGRAMMING THE REMOTE CONTROL

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

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

# Programming a code into a remote mode

- Test your remote control.
  - To find out whether your remote control can operate the component without programming, turn on the component such as a VCR and press the corresponding mode button (such as a DVD or VCR) on the remote control, while pointing at the component. Test the POWER and PR + / buttons to see if the component responds properly. If not, the remote requires programming to operate the device.
- Turn on the component to be programmed, then press the corresponding mode button (such as a DVD or VCR) on the remote control. The remote control button of desired device is lighted.
- Press the MENU and MUTE buttons simultaneously, the remote control is ready to be programmed for the code.
- Enter a code number using the number buttons on the remote control. Programming code numbers for the corresponding component can be found on the following pages. Again, if the code is correct, the device will turn off.
- Press the MENU button to store the code.
- Test the remote control functions to see if the component responds properly. If not, repeat from step 2.

## PROGRAMMING CODE

#### **DVD**

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

# **VCR**

Brand	Cod	es			Brand	Cod	es			Brand	Cod	es		
AIWA	034				MAGNAVOX	031	033	034	041	SAMSUNG	032	040	102	104
AKAI	016	043	046	124		067	068				105	107	109	112
	125	146			MARANTZ	012	031	033	067		113	115	120	122
AMPRO	072					069					125			
ANAM	031	033	103		MARTA	101				SANSUI	022	043	048	135
AUDIO DYNAMICS	012	023	039	043	MATSUI	027	030			SANYO	003	007	010	014
BROKSONIC	035	037	129		MEI	031	033				102	134		
CANON	028	031	033		MEMOREX	003	010	014	031	SCOTT	017	037	112	129
CAPEHART	108					033	034	053	072		131			
CRAIG	003	040	135			101		134	139	SEARS	003	800	009	010
CURTIS MATHES	031	033	041		MGA	045	046	059			013	014	017	020
DAEWOO	005	007	010	064	MINOLTA	013	020				031	042	073	081
	065	108	110	111	MITSUBISHI	013	020	045	046		101			
	112	116	117	119		049	051	059	061	SHARP	031	054	149	
DAYTRON	108					151				SHINTOM	024			
DBX			039	043	MTC	034	040			SONY	003	009	031	052
DYNATECH		053			MULTITECH		034					057	058	076
ELECTROHOME	059				NEC		023	039	043		077	078	149	
EMERSON	006	017	025	027		048				SOUNDESIGN	034			
		031	034		NORDMENDE	043				STS	013			
			046		OPTONICA		054			SYLVANIA	031	033	034	059
	129		138	153	PANASONIC	066	070		083		067			
FISHER		800	009	010		133	140	145		SYMPHONIC	034			
FUNAI	034									TANDY	010	034		
GE	031		063		PENTAX	013	020	031	033	TATUNG	039	043		
	107	109	144	147	DI III CO	063	07.4	0.67		TEAC	034	039		
GO VIDEO	132		0.45		PHILCO	031	034		054	TECHNICS	031		070	07.4
HARMAN KARDO		012	045	07.4	PHILIPS		033		054	TEKNIKA	019	031	033	034
HITACHI	004		026		DULOT	067	0/1	101		THOMAS	101			
INICTANITEDEDI AV			137	150	PILOT	101	031	0.40		THOMAS	034			
INSTANTREPLAY	031				PIONEER	013	021	048		TMK	006	017	0.43	0.47
JCL ICDENINIV	031		015	077	PORTLAND	108				TOSHIBA	800			047
JCPENNY	012	013	015	033	PULSAR	072	014			TOTEVICION	059	082	112	131
IENICENI		066	101		QUARTZ	011	014	075	145	TOTEVISION		101		
JENSEN	043	071	077	047	QUASAR RCA		066			UNITECH	040			
JVC			033 055		RCA		020 041			VECTOR RESEARCH	048			
		150		060			109			VICTOR		034	046	
KENWOOD			039	047			147	140	144	VIDEO CONCEPTS	040	034	040	
KLINWOOD		034	037	043	REALISTIC		008	010	014	VIDEOSONIC WARDS		013	017	024
LG (GOLDSTAR)			013	020	NEALISTIC		033			WAILDS		033		
LG (GOLDSTAIN)			114				054		070			054		0+0
LLOYD	034	100	114	143	RICO	058	034	101		YAMAHA		034		043
LXI		009	013	014	RUNCO	148				ZENITH		048		U-TJ
LA			101		SALORA	014				ZEINIII				101
MAGIN	040	0J-7	101	100	J. ILOIV I	OIT					030	0,2	000	101
	10													

# APPENDIX IR CODES

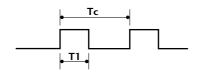
### 1. How to Connect

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

#### 2. Remote Control IR Codes

#### ■ Output waveform

Single pulse, modulated with 37.917 KHz signal at 455 KHz



Carrier frequency

FCAR = 1/TC = fOSC/12

Duty ratio = T1/TC = 1/3

#### **■** Configuration of frame

1st frame



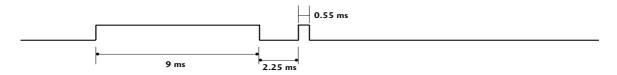
#### Repeat frame



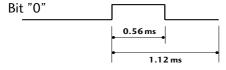
#### ■ Lead code

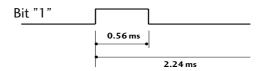


#### ■ Repeat code



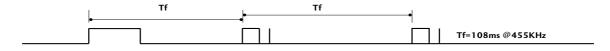
#### ■ Bit description





#### ■ Frame interval: Tf

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



Code (Hexa)	Function	Note
00	PR +	R/C BUTTON
01	PR -	R/C BUTTON
02	VOL +	R/C BUTTON
03	VOL -	R/C BUTTON
40	Up ( <b>▲</b> )	R/C BUTTON
41	Down (▼)	R/C BUTTON
06	Right (►)	R/C BUTTON
07	Left (◀)	R/C BUTTON
08	POWER	R/C BUTTON (POWER ON/OFF)
09	MUTE	R/C BUTTON
OB	INPUT	R/C BUTTON
10	Number Key 0	R/C BUTTON
11	Number Key 1	R/C BUTTON
12	Number Key 2	R/C BUTTON
13	Number Key 3	R/C BUTTON
14	Number Key 4	R/C BUTTON
15	Number Key 5	R/C BUTTON
16	Number Key 6	R/C BUTTON
17	Number Key 7	R/C BUTTON
18	Number Key 8	R/C BUTTON
19	Number Key 9	R/C BUTTON
1A	Q.VIEW	R/C BUTTON
1E	FAV	R/C BUTTON
20	TEXT	R/C BUTTON
21	T.OPT	R/C BUTTON
28	RETURN	R/C BUTTON
39	SUBTITLE	R/C BUTTON
43	MENU	R/C BUTTON
44	OK(⊚)	R/C BUTTON
45	Q.MÈNÚ TV/PC	R/C BUTTON
50		R/C BUTTON
F0	TV/RADIO	R/C BUTTON R/C BUTTON
0A 5B	I/II EXIT	
3B 1E	MARK	R/C BUTTON R/C BUTTON
53	LIST	R/C BUTTON
61	BLUE Key	R/C BUTTON
63	YELLOW Key	R/C BUTTON
71	GREEN Key	R/C BUTTON
72	RED Key	R/C BUTTON
AA	INFO ①	R/C BUTTON
AB	GUIDE	R/C BUTTON
710	GOIDE	10 0 00 1 1011

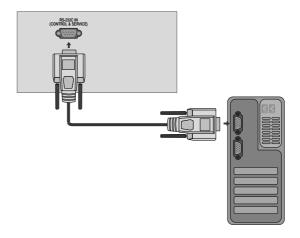
# **EXTERNAL CONTROL DEVICE SETUP**

# **RS-232C Setup**

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

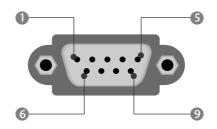
Connect the serial port of the control device to the RS-232C jack on the product back panel.

Note: RS-232C connection cables are not supplied with the product.



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

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



# **RS-232C Configurations**

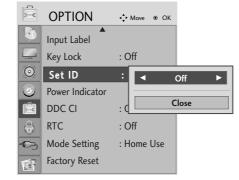
7-Wire Co	nfigurations	(Standard RS-	232C cable)
	PC	TV	
RXD	2 •——	3	TXD
TXD	3 •——	2	RXD
GND	5 •——	5	GND
DTR	4 •	<b>6</b>	DSR
DSR	6 •—	• 4	DTR
RTS	7 •—	<b>8</b>	CTS
CTS	8 •——	<b>──</b> 7	RTS
	D-Sub 9	D-Sub 9	

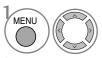
3-Wire Configurations(Not standard)					
PC		TV			
RXD	2 •—	<b>3</b>	TXD		
TXD	3 •——	<b></b> 2	RXD		
GND	5 •—	<b>─</b> 5	GND		
DTR	4	6	DTR		
DSR	6	4	DSR		
RTS	7	7	RTS		
CTS	8	8	CTS		
	D-Sub 9	D-Sub 9			

#### **Set ID**

Use this function to specify a set ID number. Refer to 'Real Data Mapping 1'. ▶ p. 109



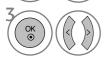




Select OPTION.



Select Set ID.



adjust **Set ID** to choose the desired TV ID number. The adjustment range of SET ID is 1~99.

- Press the MENU or EXIT button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

#### **Communication Parameters**

■Baud rate : 9600 bps (UART) ■Stop bit : 1 bit

■ Data length: 8 bits ■ Communication code: ASCII code ■ Parity: None ■ Use a crossed (reverse) cable.

#### Command Reference List

	COMMAND	COMMAND	DATA
	1	2	(Hexadecimal)
01. Power	k	a	00 ~ 01
02. Aspect Ratio	k	С	Refer to p. 107
03. Screen Mute	k	d	00 ~ 01
04. Volume Mute	k	e	00 ~ 01
05. Volume Control	k	f	00 ~ 64
06. Contrast	k	g	00 ~ 64
07. Brightness	k	h	00 ~ 64
08. Colour	k	<u>i</u>	00 ~ 64
09. Tint	k	j	00 ~ 64
10. Sharpness	k	k	00 ~ 64
11. OSD Select	k	l	00 ~ 01
12. Remote control lock m	ode k	m	00 ~ 01
13. Treble	k	r	00 ~ 64
14. Bass	k	S	00 ~ 64
15. Balance	k	t	00 ~ 64
16. Colour Temperature	k	u	00 ~ 06
17. Auto Configure	j	u	01
18. Tune Command	m	a l	Refer to p. 109
19. Programme momory/S	kip m	b	00 ~ 01
20. Key	m	С	Key Code
21. Control Backlight	m	g	00 ~ 64
22. Input select (Main	) x	b	Refer to p. 109

 $\ast$  When setting 15 ~ 22, a menu does not appear on screen.

#### Transmission / Receiving Protocol

#### **Transmission**

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

\* [Command 1] : First command to control the TV. (j, k, m or x)

\* [Command 2] : Second command to control the TV.

\* [Set ID] : You can adjust the set ID to choose desired monitor ID number in option menu. Adjustment range is 1 ~ 99.

When selecting Set ID '0', every connected set is controlled.

Set ID is indicated as decimal (1~99) on menu and as Hexa decimal (0x0~0x63) on transmission/

receiving protocol.

\* [DATA] : To transmit command data.

Transmit 'FF' data to read status of

command.

\* [Cr] : Carriage Return

ASCII code '0x0D'

\* [ ] : ASCII code 'space (0x20)'

#### OK Acknowledgement

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

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

#### Error Acknowledgement

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

\* The TV transmits ACK (acknowledgement) based on this format when receiving abnormal data from nonviable functions or communication errors.

#### 01. Power (Command: k a)

► To control Power On/Off of the TV.

Transmission

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

Data 00 : Power Off 01 : Power On

Ack

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

#### 02. Aspect Ratio (Command: k c) (Main Picture Size)

- ➤ To adjust the screen format. (Main picture format)
  You can also adjust the screen format using the
  Aspect Ratio in the PICTURE menu.
  - (1) ATV, AV1,2,3 Input mode
    - 16:9 / Original / 4:3 / 14:9 / Cinema Zoom / Zoom / Full Wide
  - (2) DTV
    - 16:9 / Just Scan / Original / 4:3 / 14:9 / Cinema Zoom / Zoom
  - (3) RGB, DVI, HDMI Input (HDMI-PC) mode 4:3 / 16:9
  - (4) Component, HDMI input (not HDMI-PC) mode
    - 16:9 / 4:3 / 14:9 / Cinema Zoom / Zoom (Just Scan : Only 720p over)

**Transmission** 

#### $[k][c][\ ][\mathsf{Set}\ \mathsf{ID}][\ ][\mathsf{Data}][\mathsf{Cr}]$

Data 01 : Normal screen (4:3) 07 : 14:9 02 : Wide screen (16:9) 09 : Just Scan 04 : Zoom 0B : Full Wide

06 : Original 10~1F : Cinema Zom 1~16

Ack

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

#### 03. Screen Mute (Command: k d)

► To select screen mute on/off.

**Transmission** 

#### [k][d][ ][Set ID][ ][Data][Cr]

Data 00 : Screen mute off (Picture on) 01 : Screen mute on (Picture off)

Ack

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

#### 04. Volume Mute (Command: k e)

➤ To control volume mute on/off. You can also adjust mute using the MUTE button on remote control.

Transmission

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

Data 00 : Volume mute on (Volume off) 01 : Volume mute off (Volume on)

Ack

#### [e][ ][Set ID][ ][OK/NG][Data][x]

#### 05. Volume Control (Command: k f)

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

Transmission

#### [k][f][ ][Set ID][ ][Data][Cr]

Data Min: 00 ~ Max: 64

\* Refer to 'Real data mapping'. See page 109.

Ack

#### [f][ ][Set ID][ ][OK/NG][Data][x]

#### 06. Contrast (Command: k g)

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

Transmission

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

Data Min: 00 ~ Max: 64

\* Refer to 'Real data mapping'. See page 109.

Ack

#### [g][ ][Set ID][ ][OK/NG][Data][x]

#### 07. Brightness (Command: k h)

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

Transmission

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

Data Min: 00 ~ Max: 64

\* Refer to 'Real data mapping'. See page 109.

Ack

#### [h][ ][Set ID][ ][OK/NG][Data][x]

#### 08. Colour (Command: ki)

► To adjust the screen colour. You can also adjust colour in the PICTURE menu.

**Transmission** 

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

Data Min: 00 ~ Max: 64

\* Refer to 'Real data mapping'. See page 109.

Ack

#### [i][ ][Set ID][ ][OK/NG][Data][x]

#### 09. Tint (Command: k j)

► To adjust the screen tint.
You can also adjust tint in the PICTURE menu.

#### Transmission

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

Data Min: 00 ~ Max: 64

\* Refer to 'Real data mapping'. See page 109.

Ack

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

#### 10. Sharpness (Command: k k)

► To adjust the screen sharpness. You can also adjust sharpness in the PICTURE menu.

Transmission

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

Data Min: 00 ~ Max: 64

\* Refer to 'Real data mapping'. See page 109.

Ack

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

#### 11. OSD Select (Command: k l)

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

#### Transmission

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

Data 00 : OSD off 01 : OSD on

Ack

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

#### 12. Remote control lock mode (Command: k m)

To lock the front panel controls on the monitor and remote control.

Transmission

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

Data 00 : Lock off 01 : Lock on

Ack

#### [m][ ][Set ID][ ][OK/NG][Data][x]

\* If you are not using the remote control, use this mode. When main power is on/off, external control lock is released.

#### 13. Treble (Command: k r)

► To adjust treble.

You can also adjust treble in the AUDIO menu.

Transmission

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

Data Min: 00 ~ Max: 64

\* Refer to 'Real data mapping'. See page 109.

Ack

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

#### 14. Bass (Command: k s)

► To adjust Bass.

You can also adjust bass in the AUDIO menu.

Transmission

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

Data Min: 00 ~ Max: 64

\* Refer to 'Real data mapping'. See page 109.

Ack

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

#### 15. Balance (Command: k t)

► To adjust balance.

You can also adjust balance in the AUDIO menu.

**Transmission** 

#### [k][t][ ][Set ID][ ][Data][Cr]

Data Min: 00 ~ Max: 64

\* Refer to 'Real data mapping'. See page 109.

Ack

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

#### 16. Colour Temperature (Command: k u)

► To adjust colour temperature. You can also adjust Colour Temperature in the PICTURE menu.

**Transmission** 

#### [k][u][ ][Set ID][ ][Data][Cr]

Data 00: Medium 01: Cool 02: Warm(not RGB DVI mode) 05:9300K 06:6500K(Only RGB DVI mode)

Ack

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

#### 17. Auto Configure (Command: j u)

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

Transmission

[j][u][ ][Set ID][ ][Data][Cr]

Data 01: To set

Ack

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

#### \* Real data mapping

00: Step 0

A: Step 10 (Set ID 10)

F: Step 15 (Set ID 15) 10: Step 16 (Set ID 16)

64: Step 100

6E: Step 110

73: Step 115

74: Step 116

Ç7: Step 199

FE : Step 254 FF : Step 255

#### 18. Tune Command (Command: m a)

► Select channel to following physical number.

**Transmission** 

#### [m][a][ ][Set ID][ ][Data0][ ][Data1][ ][Data2][Cr]

Data 00: High channel data Data 01: Low channel data

ex. No. 47 -> 00 2F (2FH)

No. 394 -> 01 88 (188H), DTV No. 0 -> Don't care Data 02 : 0x00 : ATV, 0x10 : DTV, 0x20 : Radio

Channel data range

Analogue - Min: 00 ~ Max: 63 (0~99)

Digital - Min: 00 ~ Max: 3E7 (0~999)

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

Data Min: 00 ~ Max: 7DH

#### 19. Programme memory/Skip (Command: m b)

To set skip status for the current Programme.

**Transmission** 

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

Data 00 : Skip

01: Memory

Ack

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

#### 20. Key (Command: m c)

► To send IR remote key code.

Transmission

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

Data Key code - Refer to page 103.

Ack

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

#### 21. Control Backlight (Command: m g)

► To Control the backlight. (Only RGB, DVI mode)

**Transmission** 

[m][g][ ][Set ID][ ][Data][Cr]

Data: Min: 00 ~ Max: 64 (\*transmit by hexadecimal code)

Ack

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

#### 22. Input select (Command: x b) (Main Picture Input)

► To select input source for main picture.

**Transmission** 

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

Data Structure

∟External Input →

0

0

MSB							LSB
0	0	0	0	0	0	0	0
			-				

└ Input Number ┘

**HDMI** 

	External Input			ıt	Data	
I	0	0	0	0	DTV	
ĺ	0	0	0	1	Analogue	
I	0	0	1	0	AV	
I	0	1	0	0	Component	
I	0	1	1	0	RGB	
I	1	0	0	0	DVI	

Input Number			er	Data		
0	0	0	0	Input1		
0	0	0	1	Input2		
0	0	1	0	Input3		

1

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

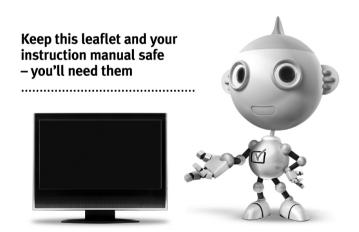


# When does switchover happen? \*Copeland switches on October 17, 2007 The exact date you switch depends on the transmitter you are served by. To check when you switch, go to Digital UK's postcode checker on www.digitaluk.co.uk Check your ITV news service or look at Teletext page 106 to see what TV region you're in.

Visit us at digitaluk.co.uk call us on o845 6 50 50 50 to

<sup>†</sup>Calls charged at BT rate of 3p per minute daytime and 1p per minute evenings and weekends. Rates may vary for calls from non-BT lines.

Keep this important information about how to re-tune your TV during the digital TV switchover



get set for digital ✓

Television in the UK is going digital, bringing us all more choice and new services. Starting in late 2007 and ending in 2012, television services in the UK will go completely digital, TV region by TV region.

Please see overleaf to find out when your area switches to digital.

Digital UK is the independent, non-profit organisation leading the process of digital TV switchover in the UK. Digital UK provides impartial information on what people need to do to prepare for the move to digital, and when they need to do it.

# How the switchover affects your TV equipment:

Your new TV has a digital tuner built in, which means it is ready to receive the Freeview signal by simply plugging it into your aerial socket (check if you can get digital TV through your aerial now, or whether you'll have to wait until switchover, at www.digitaluk.co.uk).

When the TV switchover happens in your area, there are at least two occasions when you will need to re-tune your TV in order to continue receiving your existing TV channels, and also to pick up new ones. Digital UK, the body leading the digital TV switchover, will advise you when you need to re-tune during the switchover.

If you choose to connect your TV to satellite or cable with a digital box then it will not be affected by switchover, and you won't need to re-tune.

#### How to re-tune:

To find out how to re-tune your TV, check your manufacturer's instructions for details. Or see below for a typical sequence:

- With your TV in digital TV mode, press 'Menu' on your remote control. (Some TVs will ask you for a code. If you have not already changed it, the default code is usually 0000, or check your instruction book.)
- 2. From the Menu options on screen, select 'SETUP'. Select 'Auto Tuning'\* to re-tune your digital TV (not 'add channels'). You may have to wait a couple of minutes for the re-tune to complete.
- \*Also sometimes referred to as 'Update', 'Rescan', 'Replace', 'Auto-Tuning', 'Channel Search', 'First Time Install', or 'Store Channels'.
- 3. If you do not re-tune your channels when advised to do so by Digital UK, you may lose some or all of your channels until you do re-tune. You should re-tune your TV every few months to check for any new channels.

If you are missing any channels, it may be that they are not available in your area, or that your aerial needs upgrading.

If you have any questions, please contact your equipment supplier or call Digital UK on **0845 6 50 50 50** or visit **www.digitaluk.co.uk**