



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 future reference.
See the label attached on the product and give the information to your dealer when you ask for service.



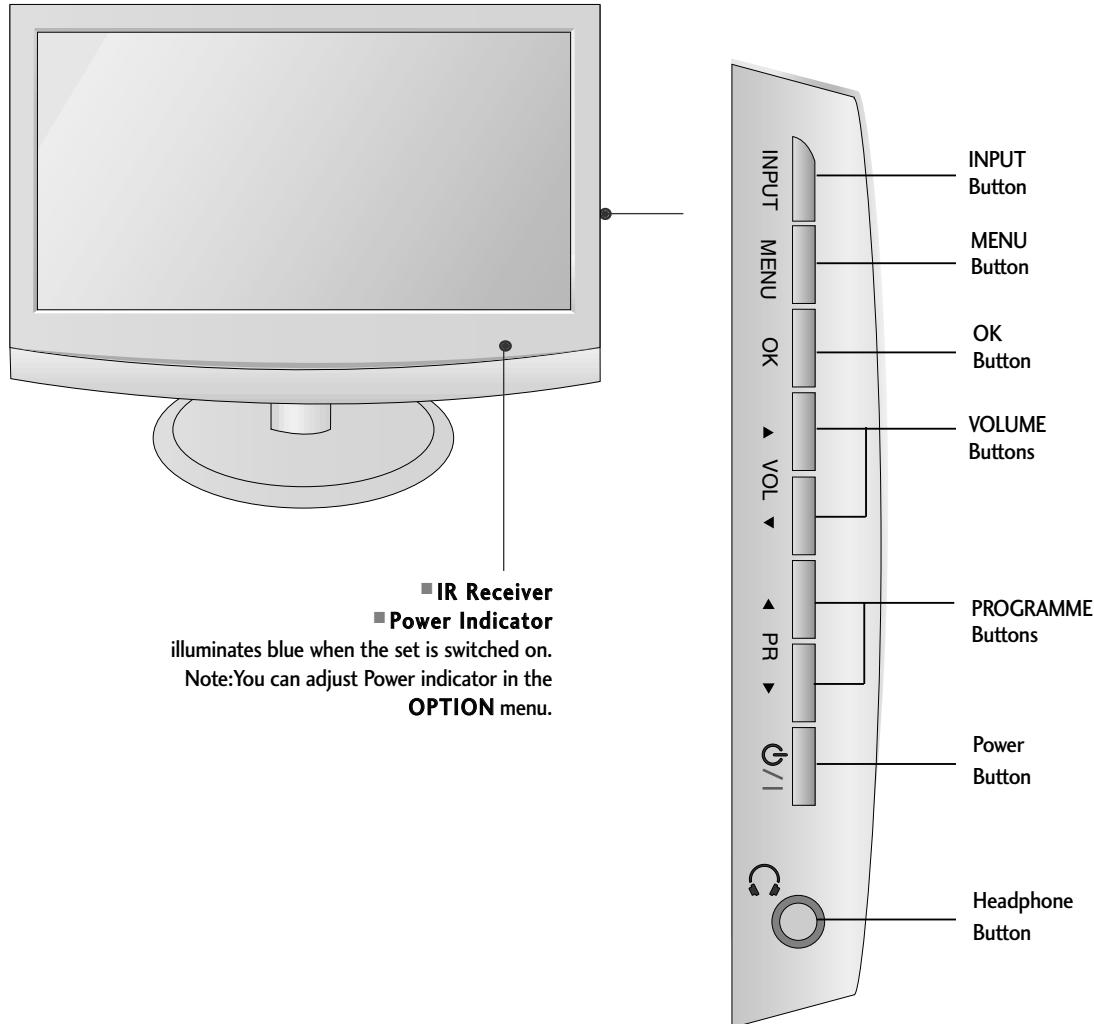
Trade Mark of the DVB Digital Video Broadcasting Project (1991 to 1996)

ID Number(s): 6421 : M2794DP

PREPARATION

FRONT PANEL CONTROLS

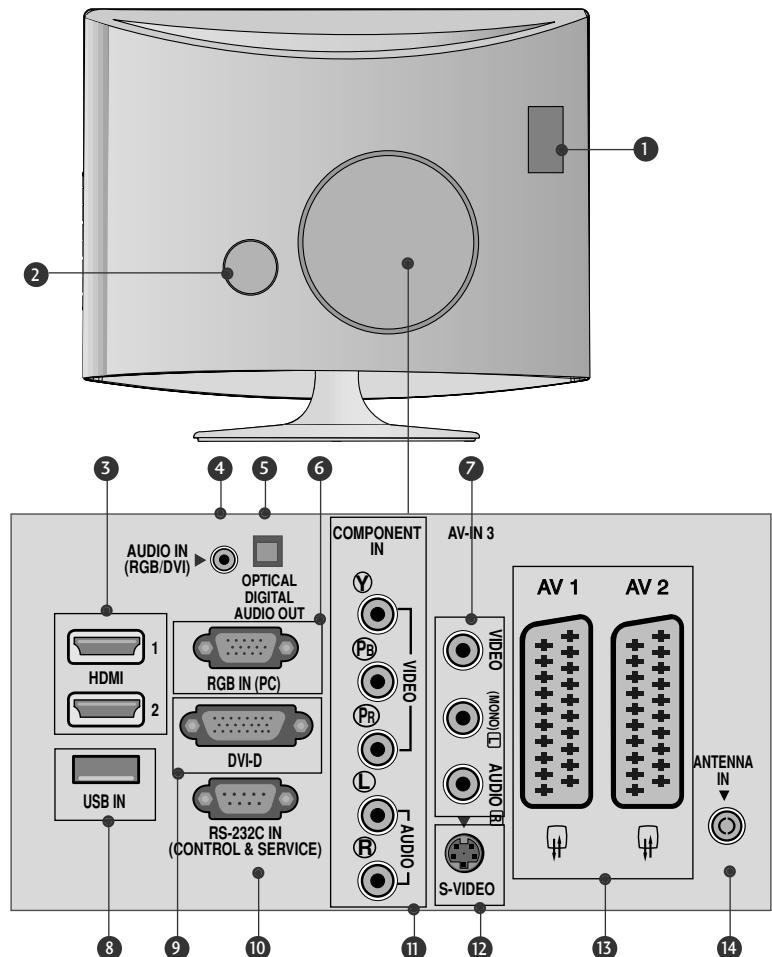
- This is a simplified representation of the front panel. The image shown may be somewhat different from your set.



PREPARATION

BACK PANEL INFORMATION

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



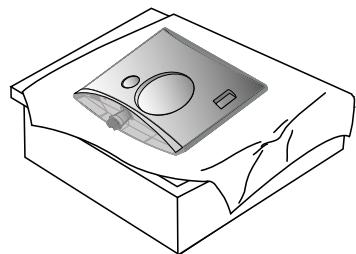
- ① PCMCIA (Personal Computer Memory Card International Association) Card Slot
(This feature is not available in all countries.)
- ② Power Cord Socket
This set operates on AC power. The voltage is indicated on the Specifications page. Never attempt to operate the set on DC power.
- ③ HDMI Input (Not Support PC)
Connect a HDMI signal to HDMI IN.
Or DVI (VIDEO) signal to HDMI IN with DVI to HDMI cable.
- ④ RGB/DVI Audio Input
Connect the audio from a PC.
- ⑤ Optical Digital Audio Out
Connect digital audio from various types of equipment
- ⑥ RGB INPUT (PC)
Connect the output from a PC.
- ⑦ Audio/Video Input
Connect audio/video output from an external device to these jacks.
- ⑧ USB IN
- ⑨ DVI-D Input
Connect the output from a PC.
- ⑩ RS-232C IN (CONTROL & SERVICE) PORT
Connect to the RS-232C port on a PC.
- ⑪ Component Input
Connect a component video/audio device to these jacks.
- ⑫ S-Video Input
Connect S-Video out from an S-VIDEO device.
- ⑬ Euro Scart Socket (AV1/AV2)
Connect scart socket input or output from an external device to these jacks.
- ⑭ Antenna Input
Connect over-the-air signals to this jack.

PREPARATION

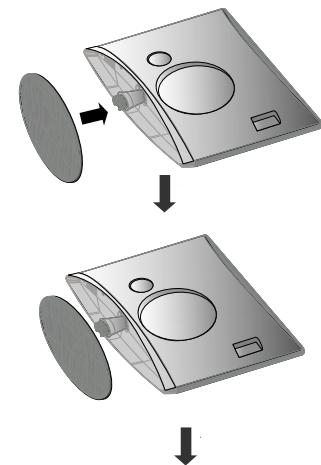
STAND INSTALLATION

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

- 1 Carefully place the product screen side down on a cushioned surface that will protect product and screen from damage.

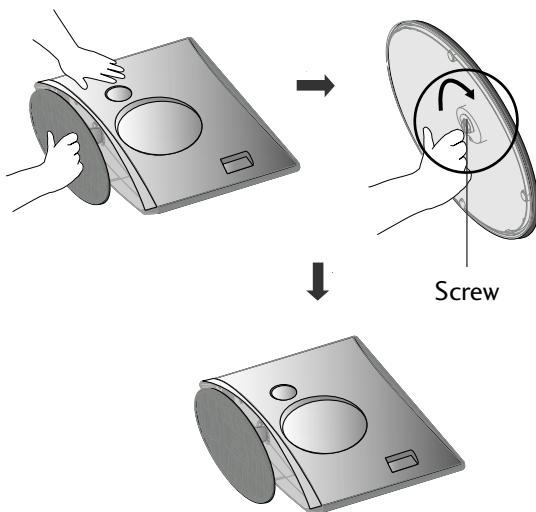


- 2 Insert the **stand base** into the product



- 3 Attach the monitor to the Stand Base by turning the screw to the right.

* Turn the screw by using the screw handle

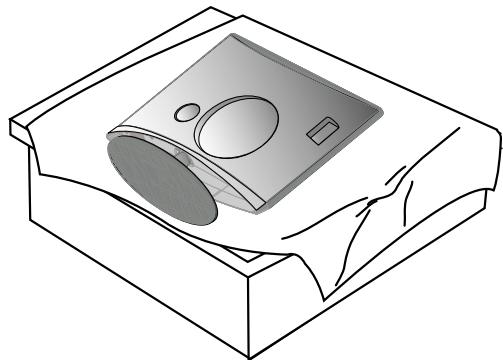


PREPARATION

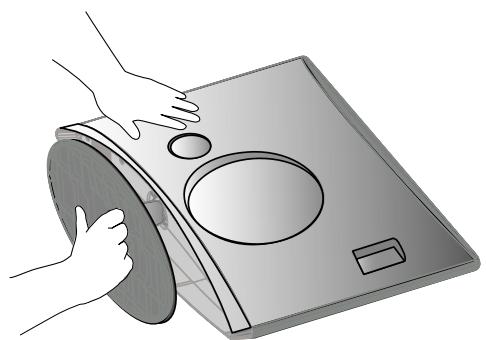
DETACHING STAND

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

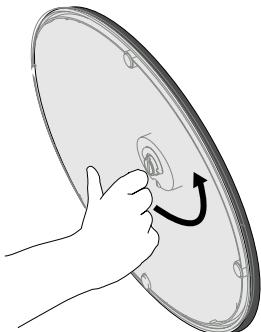
- 1** Place the set screen side down on a cushion or soft cloth.



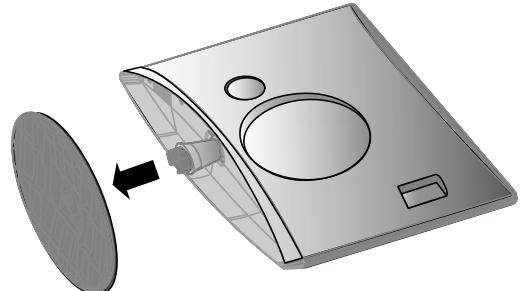
- 2** Detach the monitor to the Stand Base by turning the screw to the left.



- 3** Turn the screw by using the screw handle



- 4** Pull the stand base.



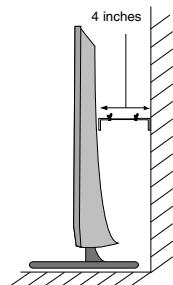
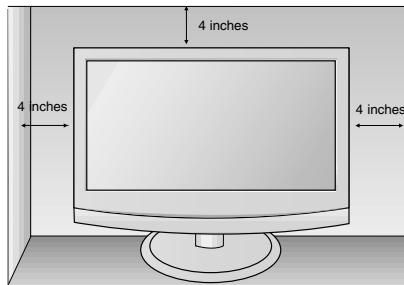
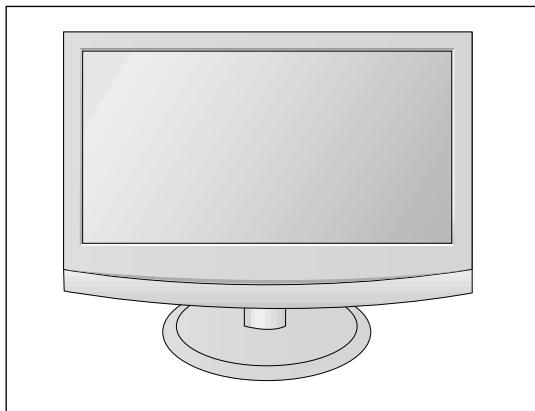
- 5**



PREPARATION

DESKTOP PEDESTAL INSTALLATION

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



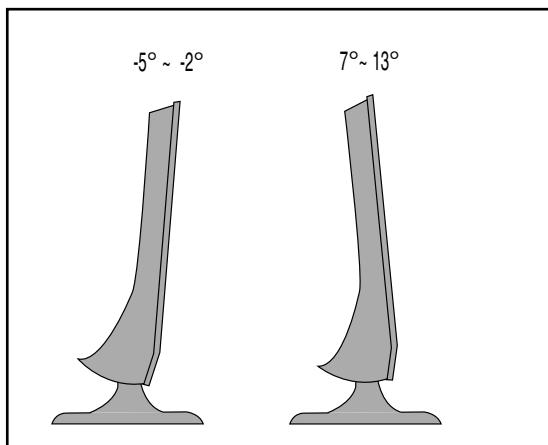
PREPARATION

POSITIONING YOUR DISPLAY

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

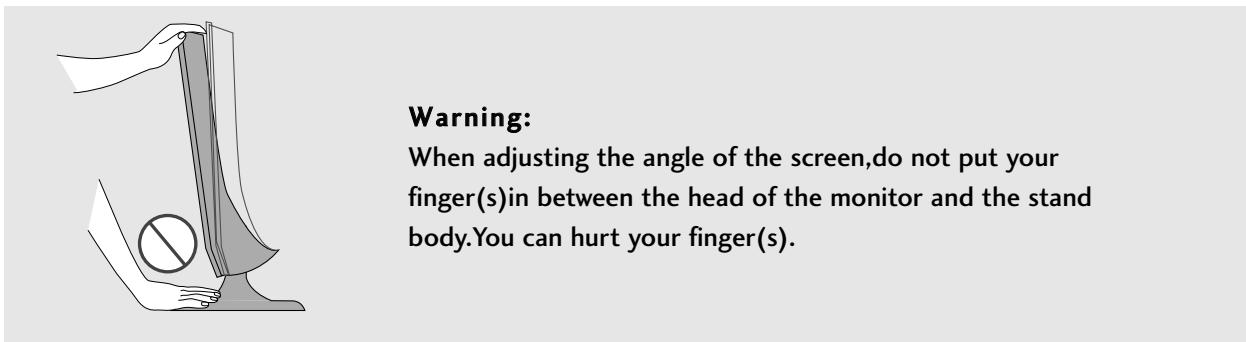
Adjust the position of the panel in various ways for maximum comfort.

- **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).

PREPARATION

KENSINGTON SECURITY SYSTEM

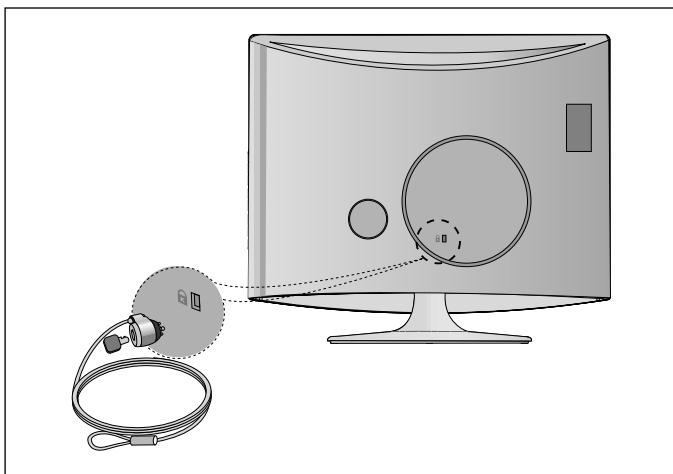
- The product is equipped with a Kensington Security System connector on the back panel. Connect the Kensington Security System cable as shown below.
- For detailed installation and use of the Kensington Security System, refer to the user's guide provided with the Kensington Security System.
For further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

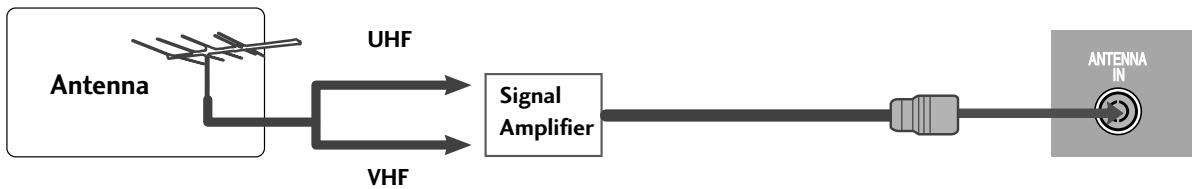
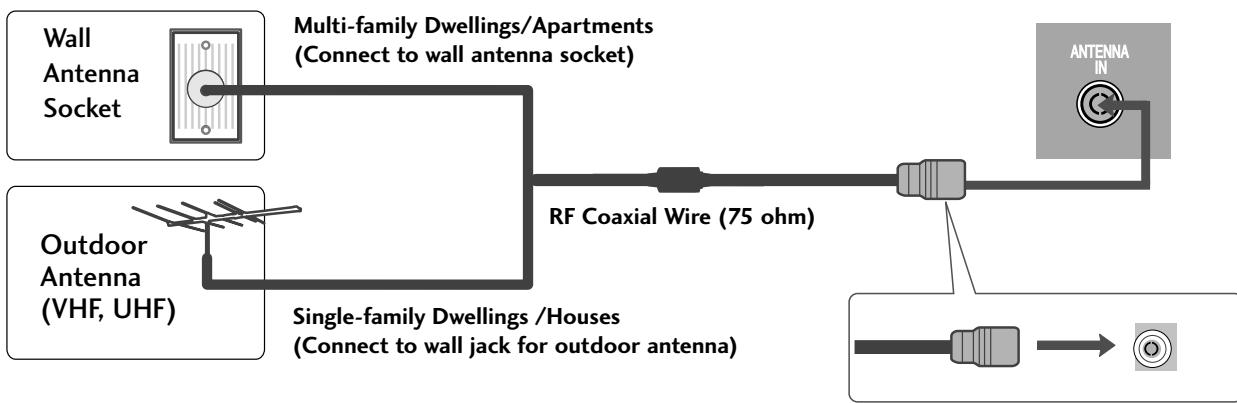


PREPARATION

- 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.

EXTERNAL EQUIPMENT SETUP

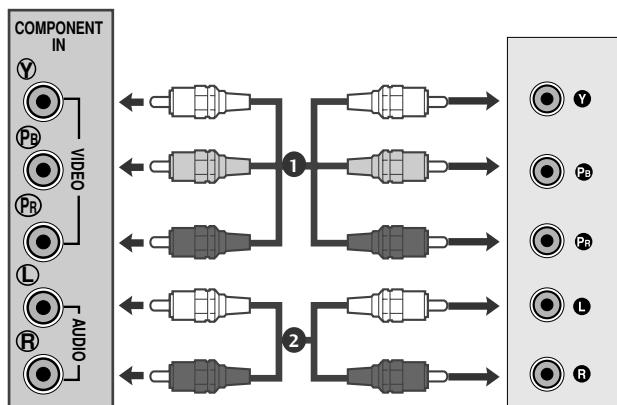
- To prevent the equipment damage, never plug in any power cords until you have finished connecting all equipment.
- The image shown may be somewhat different from your set.

HD RECEIVER SETUP

When connecting with a component cable

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

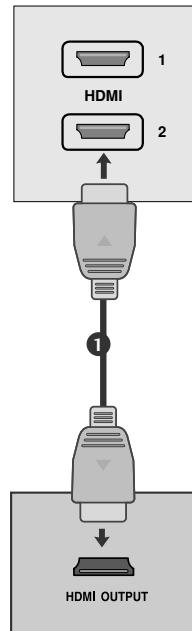
Signal	Component	HDMI
480i/576i	Yes	No
480p/576p	Yes	Yes
720p/1080i	Yes	Yes
1080p	Yes	Yes



EXTERNAL EQUIPMENT SETUP

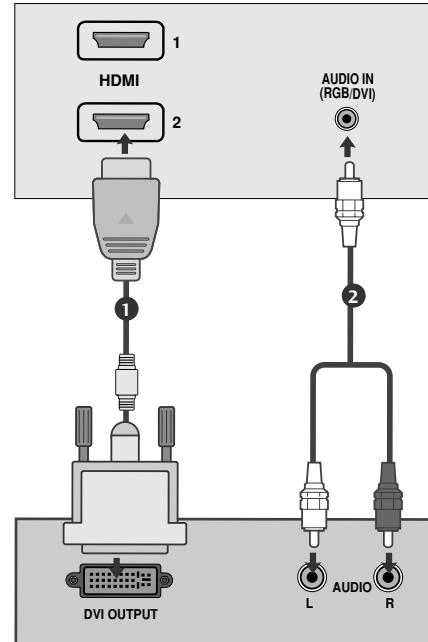
When connecting with a HDMI

- 1 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

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



EXTERNAL EQUIPMENT SETUP

DVD SETUP

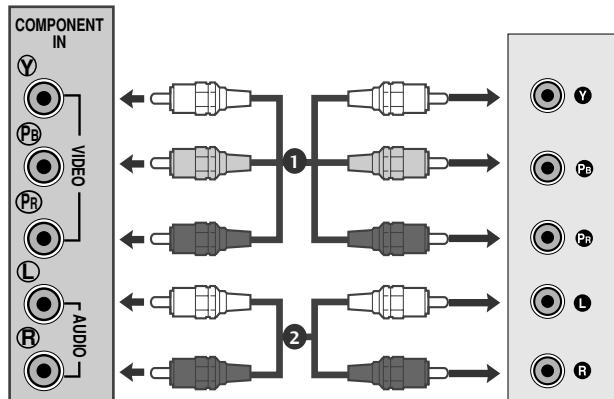
When connecting with a component cable

- 1 Connect the video output sockets (Y Pb Pr) of the DVD to the **COMPONENT IN VIDEO** sockets (Y Pb Pr) of the set.
- 2 Connect the audio cable from the DVD to **COMPONENT IN AUDIO** sockets of the set.
- 3 Press the **INPUT** button to select **Component**.
- 4 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.

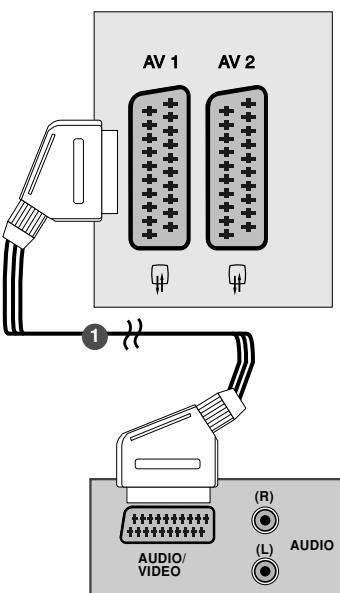
Component ports on the set	Y	P _B	P _R
Video output ports on DVD player	Y	P _B	P _R
	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	Pb	Pr



EXTERNAL EQUIPMENT SETUP

When connecting with a Euro Scart[DVD]

- 1 Connect the Euro scart socket of the DVD to the Euro scart socket of the set.
- 2 Press the **INPUT** button to select **AV1**.
If connected to **AV2** Euro scart socket, select **AV2** input source.
- 3 Press the **PLAY** button on the DVD.
The DVD playback picture appears on the screen.

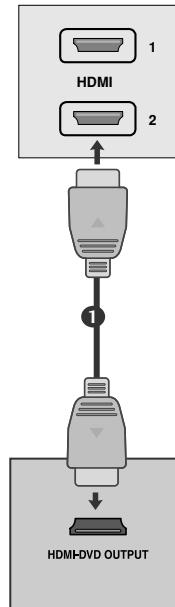


! NOTE

- 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

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



! NOTE

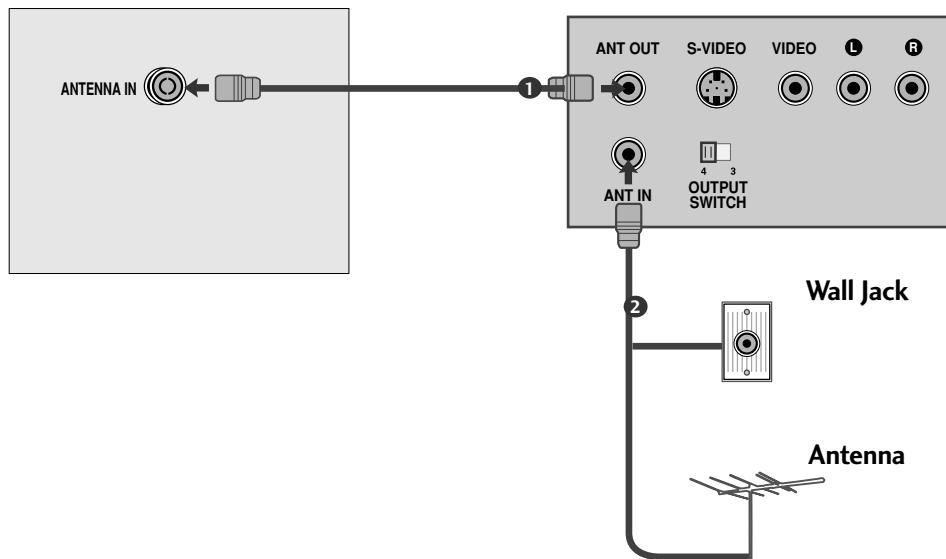
- Set can receive the video and audio signal simultaneously by using a HDMI cable.
- If the DVD player does not support Auto HDMI, you need to set the DVD output resolution appropriately.

EXTERNAL EQUIPMENT SETUP

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



-
- 1 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.

 - 3 Store the VCR channel on a desired programme number using the 'Manual programme tuning' section.

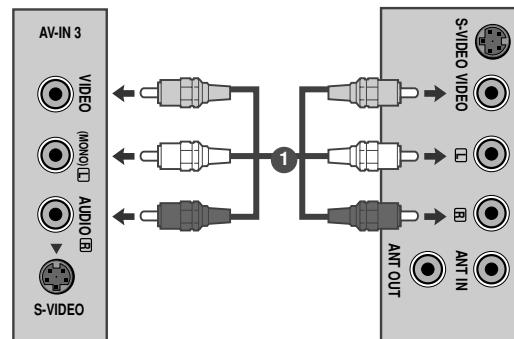
 - 4 Select the programme number where the VCR channel is stored.

 - 5 Press the **PLAY** button on the VCR.
-

EXTERNAL EQUIPMENT SETUP

When connecting with a RCA cable

- 1 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.
- 3 Press the PLAY button on the VCR.
The VCR playback picture appears on the screen.

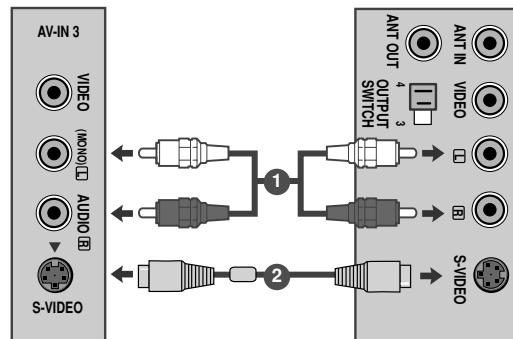


! NOTE

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

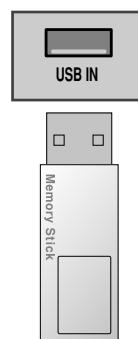
When connecting with an S-Video cable

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



USB SETUP

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



EXTERNAL EQUIPMENT SETUP

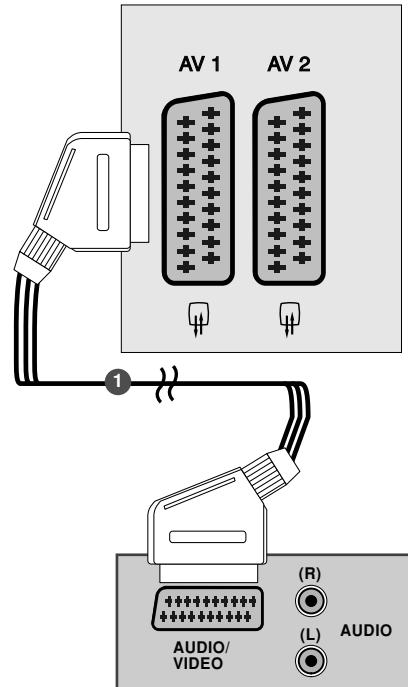
When connecting with a Euro Scart[VCR]

- 1 Connect the Euro scart socket of the VCR to the Euro scart socket of the set.

- 2 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

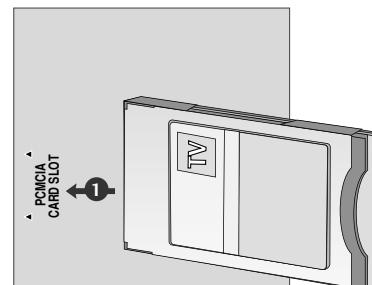
- Signal type RGB, i.e. the signals red, green and blue can only be selected for the Euro scart and the AV 1 can be received. These signals are transmitted, for example, by a paid TV decoder, game machine or photo CD unit, etc.
- Please use shielded scart cable.

INSERTION OF CI MODULE

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

- 1 Insert the CI Module to **PCMCIA** (Personal Computer Memory Card International Association) **CARD SLOT** of set as shown.

For further information, see p. 40.



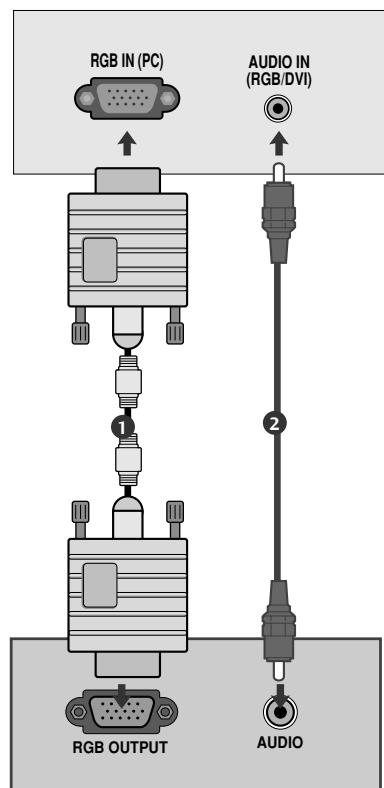
EXTERNAL EQUIPMENT SETUP

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

- 1 Connect the signal cable from the monitor output socket of the PERSONAL COMPUTER to the PC input socket of the set.
- 2 Connect the audio cable from the PC to the **AUDIO IN (RGB/DVI)** sockets of the set.
- 3 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

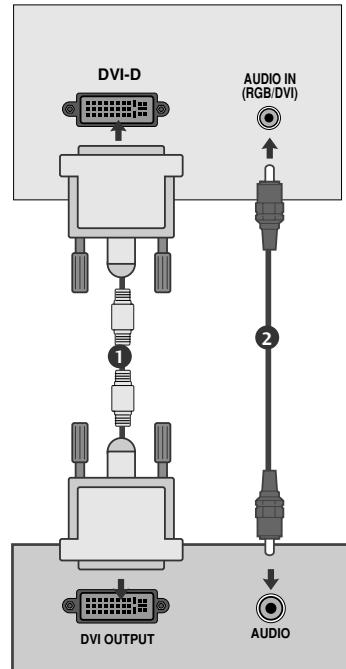
- User must use shielded signal interface cables (D sub 15 pin cable, DVI cable) with ferrite cores to maintain standard compliance for the product.

EXTERNAL EQUIPMENT SETUP

When connecting with a DVI cable

- 1 Connect the DVI output of the PC to the **DVI-D IN** jack on the set.

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



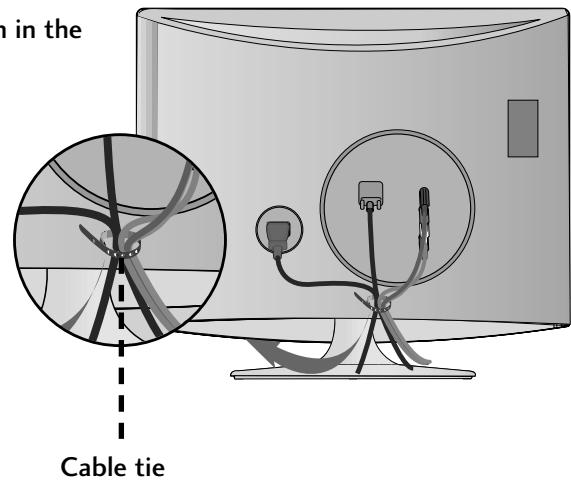
! NOTE

- 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.

EXTERNAL EQUIPMENT SETUP

BACK COVER FOR WIRE ARRANGEMENT

Tie cables together with a cable tie as shown in the illustration.



EXTERNAL EQUIPMENT SETUP

RGB/DVI[PC]

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720x400	31.468	70
640x480	31.469	60
	37.500	75
800x600	37.879	60
	46.875	75
1024x768	48.363	60
	60.123	75
1152x864	67.500	75
1280x1024	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

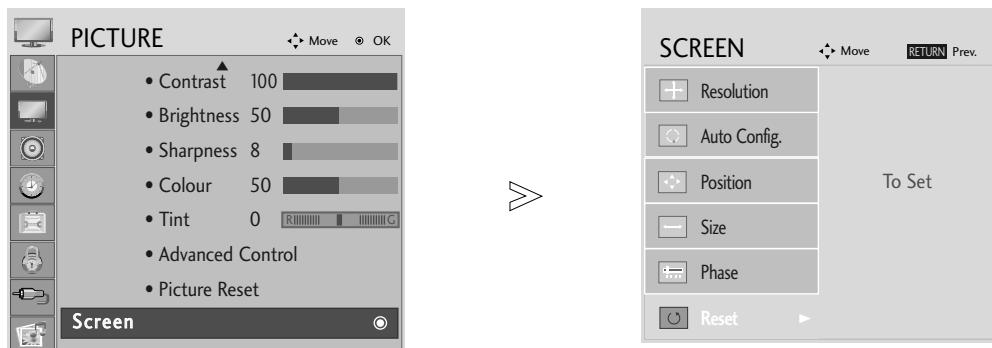
EXTERNAL EQUIPMENT SETUP

SCREEN SETUP FOR PC MODE

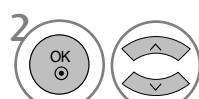
Screen Reset

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

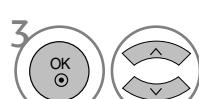
This function works in the following mode: RGB[PC].



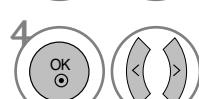
Select PICTURE.



Select SCREEN.



Select Reset.



Select Yes.



Run Reset.

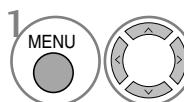
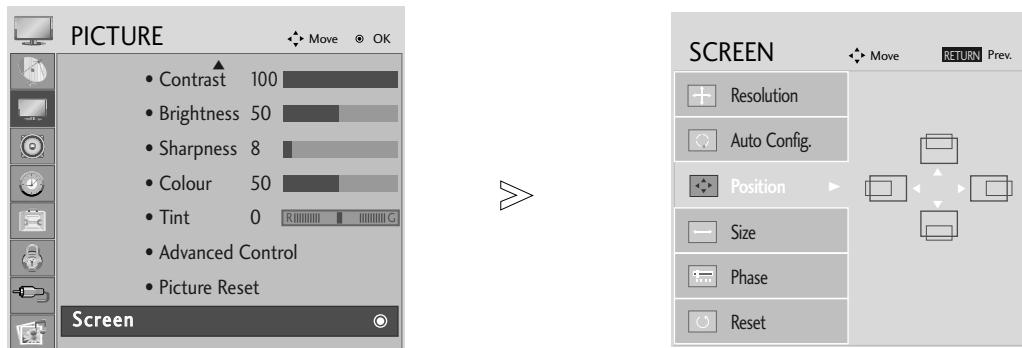
- Press the MENU or EXIT button to close the menu window.
- Press the RETURN button to move to the previous menu screen.

EXTERNAL EQUIPMENT SETUP

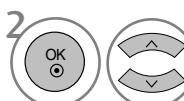
Adjustment for screen Position, Size, Phase

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

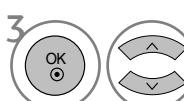
This function works in the following mode: RGB[PC].



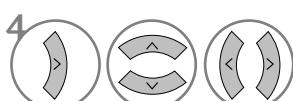
Select PICTURE.



Select SCREEN.



Select Position, Size or Phase.



Make appropriate adjustments.

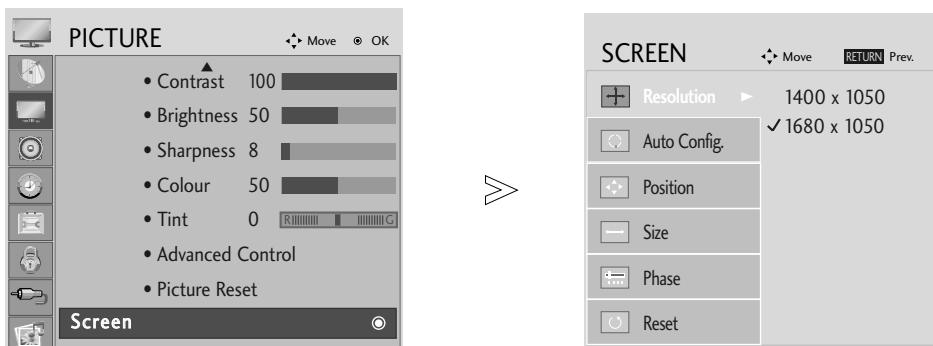
- Press the MENU or EXIT button to close the menu window.
- Press the RETURN button to move to the previous menu screen.

EXTERNAL EQUIPMENT SETUP

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.

EXTERNAL EQUIPMENT SETUP

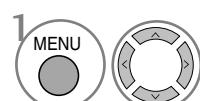
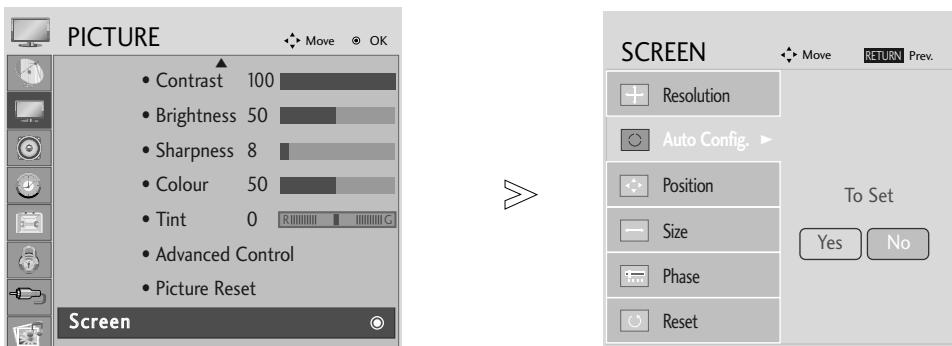
Auto Configure (RGB [PC] mode only)

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.

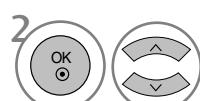
Auto configure

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.

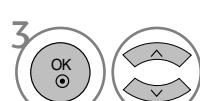
1. Using OSD



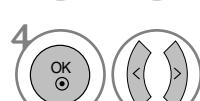
Select PICTURE.



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.



Press OK.

Auto Config. ► ● (OK)

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



Press OK.

Auto in progress

<1920 x 1080 Resolution>



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.

EXTERNAL EQUIPMENT SETUP

DDC CI(Only RGB, DVI mode)

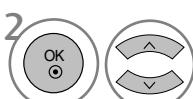
DDC/CI (Display Data Channel Command Interface) is a communication protocol for communications between PC and set.

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.



1 Select OPTION.



2 Select DDC CI.

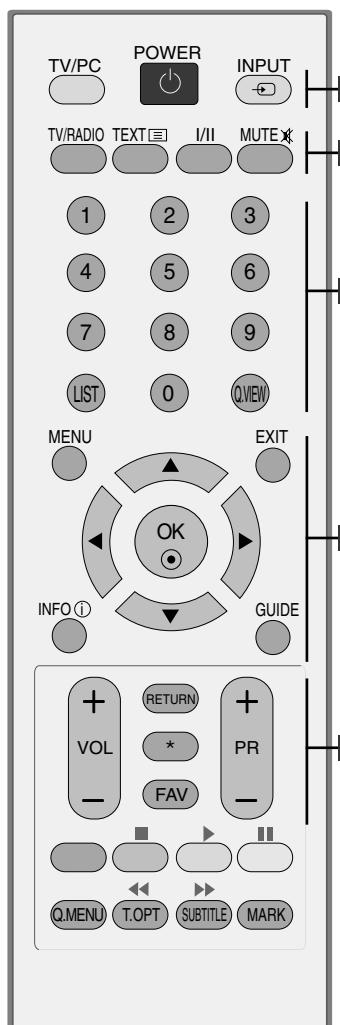


- Press the MENU or EXIT button to close the menu window.
- Press the RETURN button to move to the previous menu screen.

WATCHING TV /PROGRAMME CONTROL

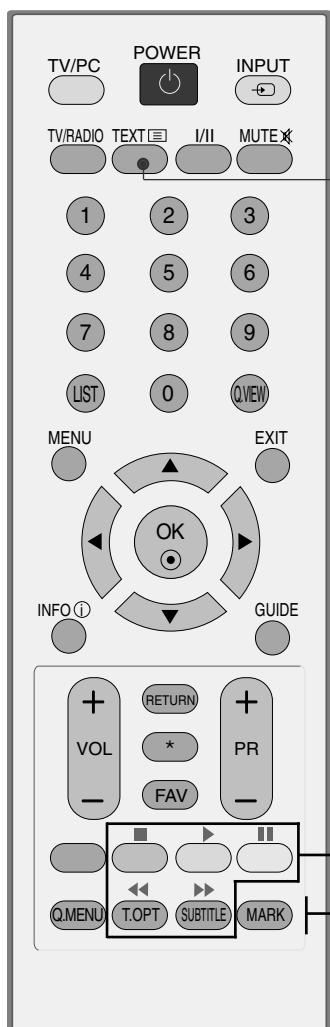
REMOTE CONTROL KEY FUNCTIONS

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



- 1** **POWER** Switches the set on off.
TV/PC Selects TV or PC mode.
INPUT External input mode rotates in regular sequence.
MUTE Switches the sound on or off.
- 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.
- 4** **MENU** Selects a menu.(Refer to the p.30)
EXIT Clears all on-screen displays.
INFO ⓘ 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.
- 5** **VOLUME UP/DOWN** 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 UP/DOWN Selects a programme.

WATCHING TV /PROGRAMME CONTROL



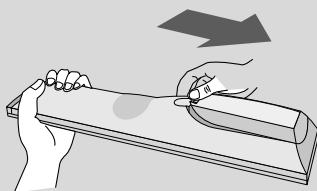
1 TELETEXT These buttons are used for teletext.
BUTTONS For further details, see the 'Teletext' section.
 (Refer to the p.92~94)

2 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.

WATCHING TV /PROGRAMME CONTROL

TURNING ON THE TV

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

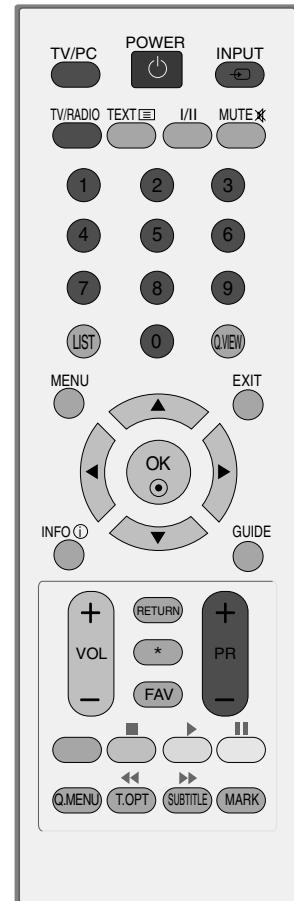
- 1 First, connect power cord correctly.
- 2 Turn on power by pressing the power button on the product.
- 3 Press the TV/PC button on the remote control.
- 4 Set the channel by using the PR+ / - buttons or number buttons on the remote control.

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.*



WATCHING TV /PROGRAMME CONTROL

PROGRAMME SELECTION

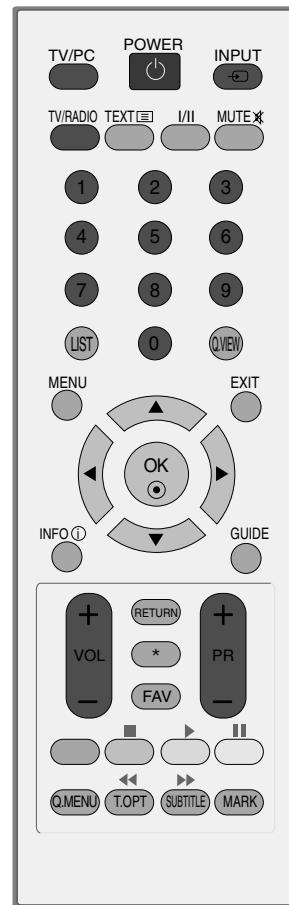
- 1 Press the **PR +** or **-** or **NUMBER** buttons to select a programme number.

VOLUME ADJUSTMENT

- 1 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.



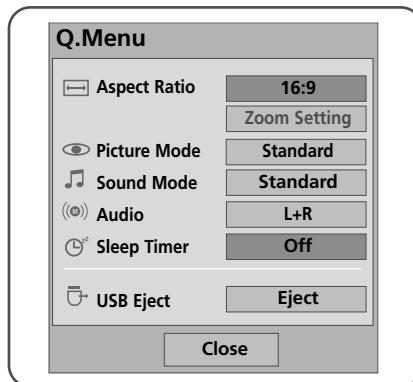
WATCHING TV /PROGRAMME CONTROL

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.

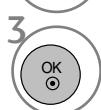
- **Aspect Ratio**: Selects your desired picture format. For Zoom Setting, select 14:9, Zoom and Cinema Zoom in Ratio Menu. After completing Zoom Setting, the display goes back to Q.Menu.
- **Picture Mode** : Selects your desired Picture Mode.
- **Sound Mode** : It is a feature to automatically set the 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.



Display each menu.



Select your desired Source.

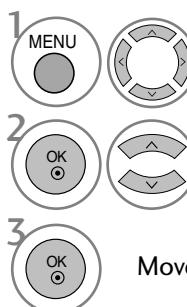
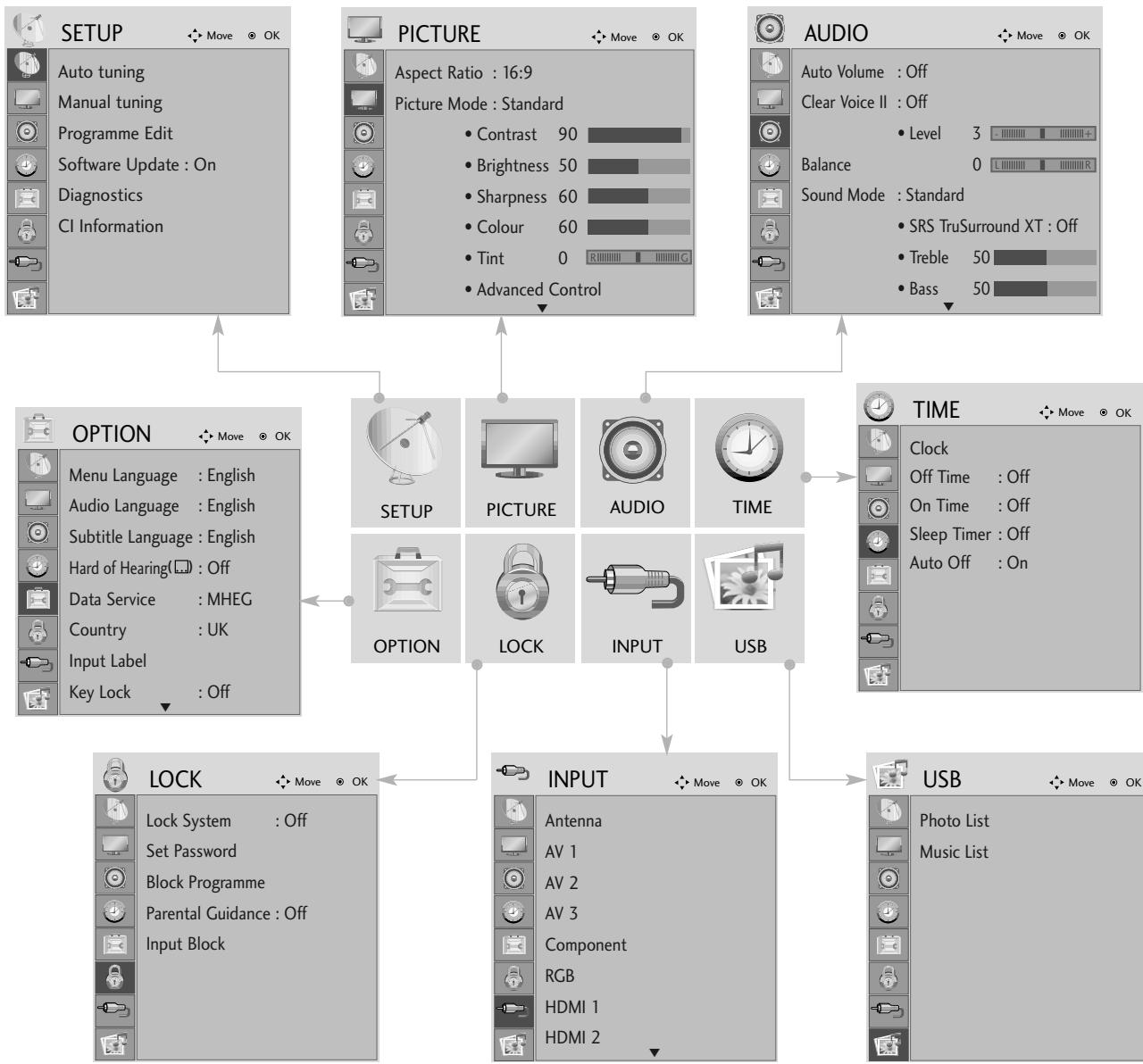


- Press the RETURN button to move to the previous menu screen.

WATCHING TV /PROGRAMME CONTROL

ON SCREEN MENUS SELECTION AND ADJUSTMENT

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



1 Display each menu.

2 Select a menu item.

3 Move to the pop up menu.

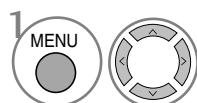
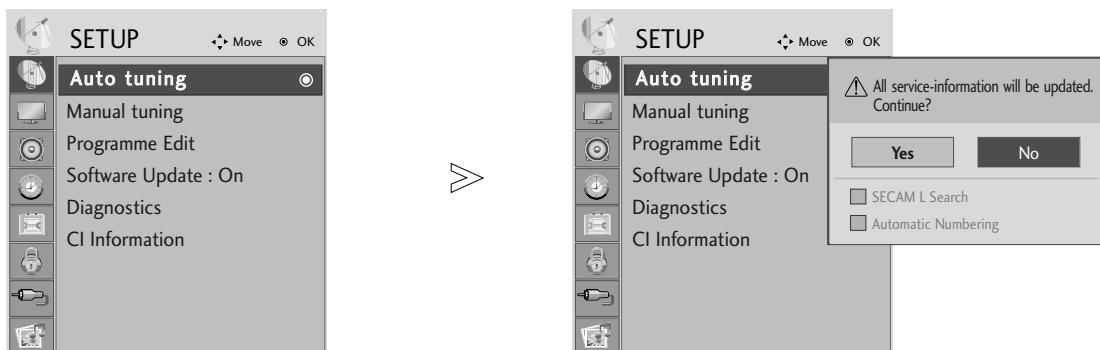
- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

WATCHING TV /PROGRAMME CONTROL

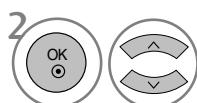
AUTO PROGRAMME TUNING

Use this to automatically find and store all available programmes.

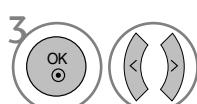
When you start auto programming in digital mode, all previously stored service information will be deleted.



Select SETUP.



Select Auto Tuning.



Select Yes.



Run Auto tuning.

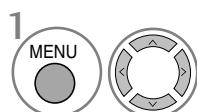
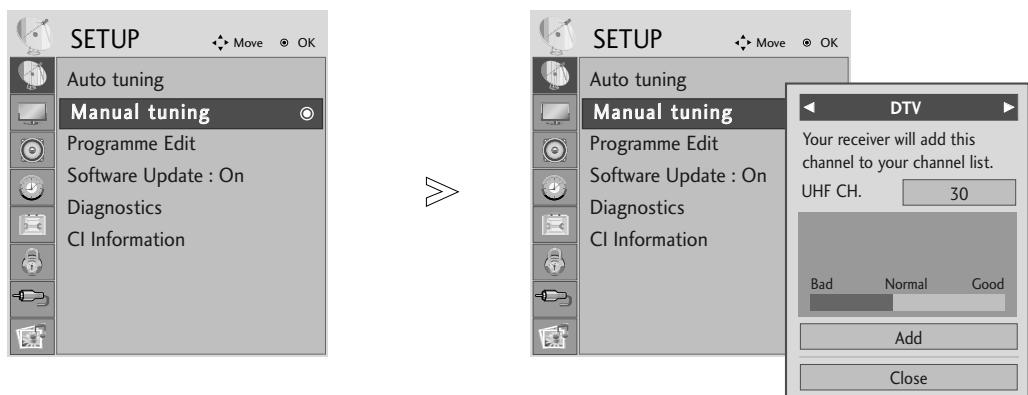
- Use NUMBER buttons to input a 4-digit password in Lock System 'On'.
- If you wish to keep on auto tuning, select YES using the **◀ ▶** button. Then, press the OK button. Otherwise, select NO.

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

WATCHING TV /PROGRAMME CONTROL

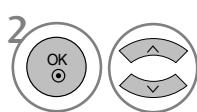
MANUAL PROGRAMME TUNING (IN DIGITAL MODE)

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

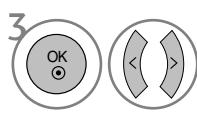


Select **SETUP**.

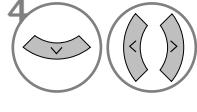
- Use **NUMBER** buttons to input a 4-digit password in **Lock System 'On'**.



Select **Manual Tuning**.



Select **DTV**.



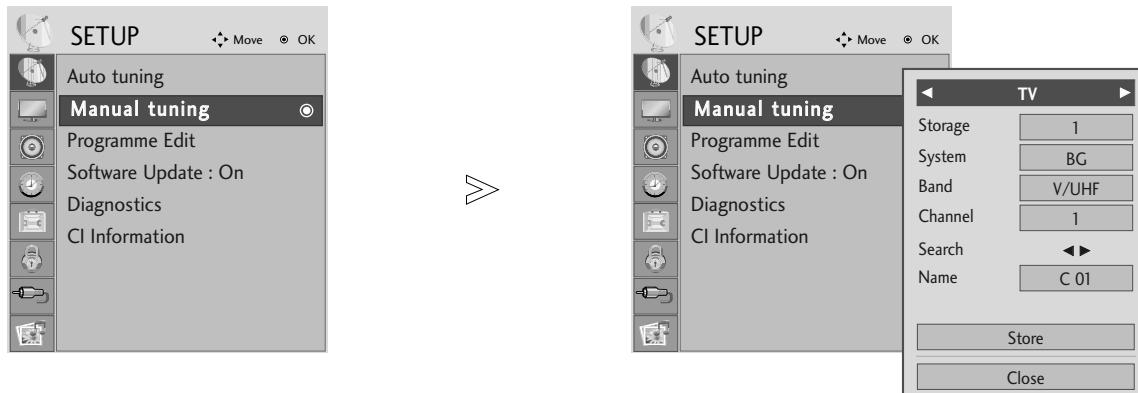
Select the desired channel number.

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

WATCHING TV /PROGRAMME CONTROL

MANUAL PROGRAMME TUNING (IN ANALOGUE MODE)

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



- | | |
|----|---|
| | 1 Select SETUP. |
| | 2 Select Manual Tuning. |
| | 3 Select TV. |
| or | 4 Select the desired programme number on. |
| | 5 Select a TV system. |
| | 6 Select V/UHF or Cable. |
| or | 7 Select the desired channel number. |
| | 8 Start searching. |
| | 9 Select Store. |

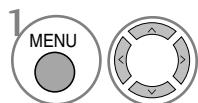
- Press the MENU or EXIT button to close the menu window.
- Press the RETURN button to move to the previous menu screen.

- 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.

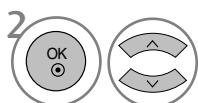
WATCHING TV /PROGRAMME CONTROL

■ Assigning a station name

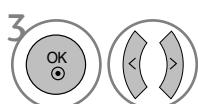
You can assign a station name with five characters to each programme number.



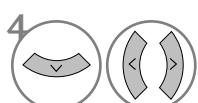
Select SETUP.



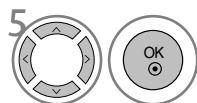
Select Manual Tuning.



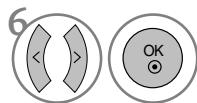
Select TV.



Select Name.



Select the position and make your choice of the second character, and so on.
You can use the alphabet **A** to **Z**, the number **0** to **9**, **+/ -**, and space.



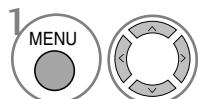
Select Close.



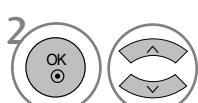
Select Store.

■ Fine Tuning

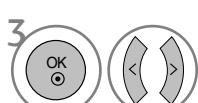
Normally fine tuning is only necessary if reception is poor.



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.

WATCHING TV /PROGRAMME CONTROL

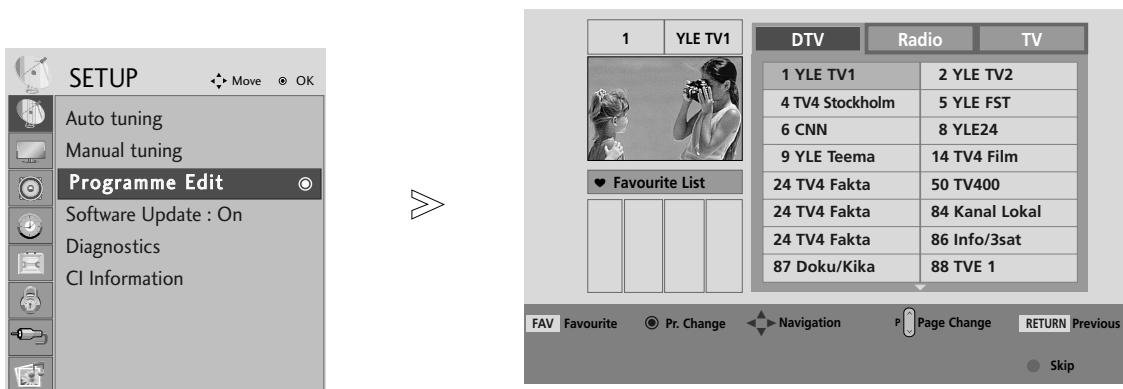
PROGRAMME EDIT

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

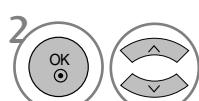
This function enables you to skip the stored programmes.

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



Select **SETUP**.

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



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.

WATCHING TV /PROGRAMME CONTROL

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.

WATCHING TV /PROGRAMME CONTROL

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.

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



Turn the deleted programme number to red.



Release the deleted programme.

■ 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.

- 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.



Turn the skipped programme number to blue.



Release the skipped programme.

■ Selecting a Favourite Programme



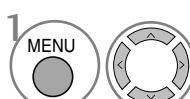
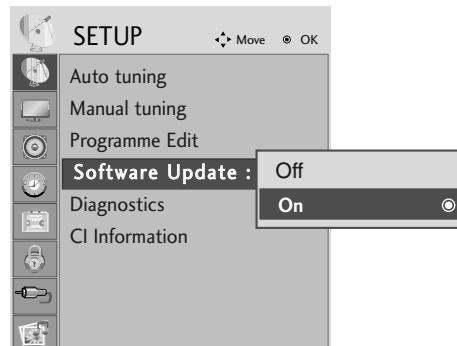
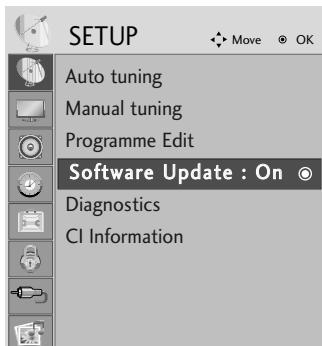
Select your favourite programme number.

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

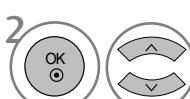
WATCHING TV /PROGRAMME CONTROL

SOFTWARE UPDATE

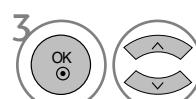
Software Update means software can be downloaded through the digital terrestrial broadcasting system.



Select SETUP.



Select Software Update.



Select On or Off.
• 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.

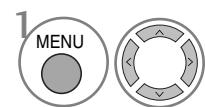
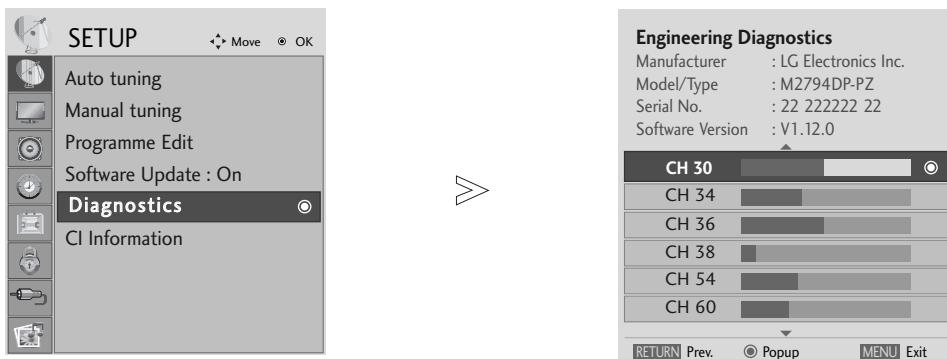
WATCHING TV /PROGRAMME CONTROL

DIAGNOSTICS (IN DIGITAL MODE ONLY)

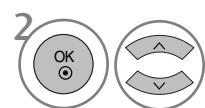
This function enables you to view information on the Manufacturer, Model/Type, Serial Number and Software Version.

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

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



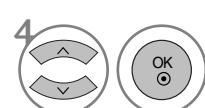
Select SETUP.



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.

WATCHING TV /PROGRAMME CONTROL

CI [COMMON INTERFACE] INFORMATION

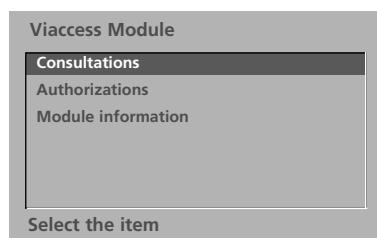
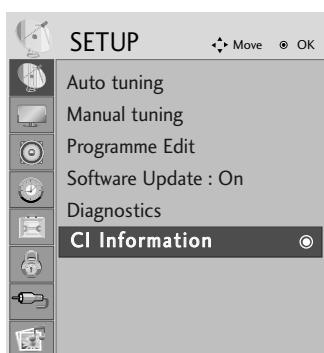
This function enables you to watch some encrypted services (paid services). If you remove the CI Module, you cannot watch paid services.

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.

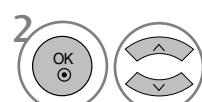
CI (Common Interface) functions may not be possible depending upon the country broadcasting circumstances.



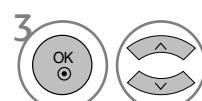
- This OSD is only for illustration and the menu options and screen format will vary according to the Digital pay services provider.
- It is possible for you to change CI (Common Interface) menu screen and service by consulting your dealer.



Select SETUP.



Select CI Information.



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



Save.

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

WATCHING TV /PROGRAMME CONTROL

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.

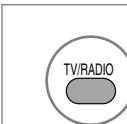
■ Selecting a programme in the programme list



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

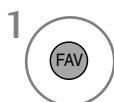


Turns the pages.



Returns to normal TV viewing.

■ Displaying the favourite programme table



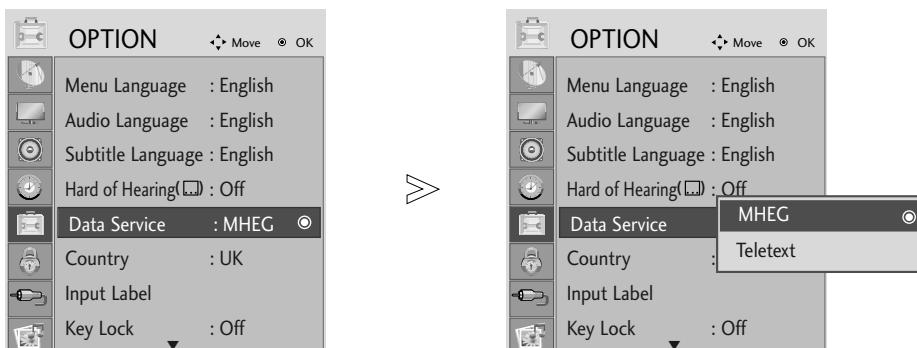
Display the Favourite Programme table.

WATCHING TV /PROGRAMME CONTROL

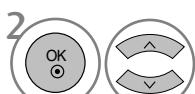
DATA SERVICE

(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.



Select **OPTION**.



Select **Data Service**.



Select **MHEG or Teletext**.



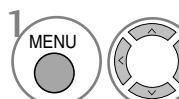
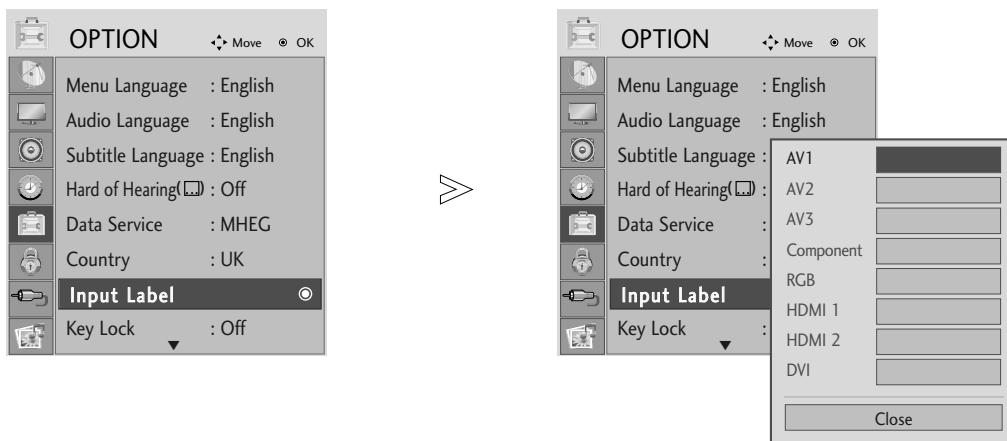
Save.

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

WATCHING TV /PROGRAMME CONTROL

INPUT LABEL

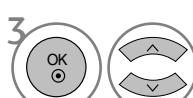
Selects a label for each input source.



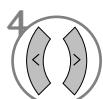
Select **OPTION**.



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.

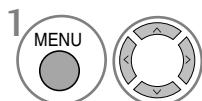
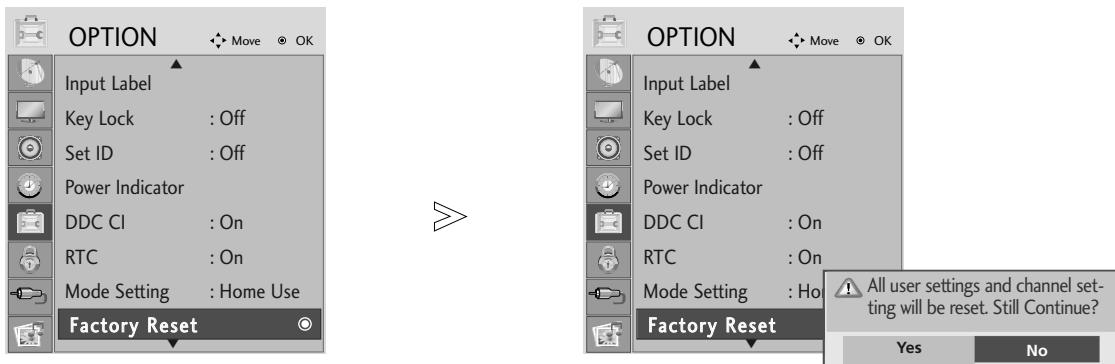
WATCHING TV /PROGRAMME CONTROL

Initializing (Reset to original factory settings)

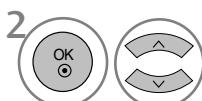
This function operates in current mode.

To initialize the adjusted value.

When the **Lock System** menu is “On”, the message to enter the password appears.



1 Select **OPTION**.



2 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



1 Switch on or off EPG.

Programme Guide

06 Mar. 2006 15:09		
ALL	14:00	15:00
1 YLE TV1	No Information	
2 YLE TV2	No Information	TV2: Farmen
4 TV..	No Information	
5 YLE FST	No Information	
6 CNN	No Information	
8 YLE24	No Information	Tänään otsikoissa

TV/RADIO Radio FAV Favourite INFO Information Pr. Change
● Mode ● Date ● Schedule ● Schedule List

Select a programme



1 or 2 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.



GUIDE or EXIT



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 mode.



Enter Timer Record/Remind list mode.



Change to the selected programme.



Select NOW or NEXT Programme.



Select the Broadcast Programme.



Page Up/Down.



GUIDE or EXIT



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.



GUIDE or EXIT



Switch off EPG.

EPG (ELECTRONIC PROGRAMME GUIDE) (IN DIGITAL MODE)

Button Function in Extended Description Box



Text Up/Down.



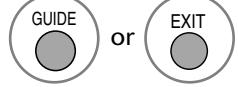
Enter Timer Record/Remind setting mode.



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 time.



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 CONTROL

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.

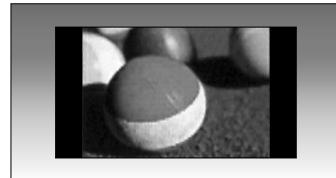
• 16:9

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

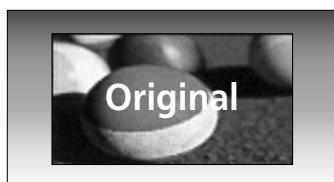
The following selection will allow you to view a picture with an original 4:3 aspect ratio, grey bars will appear on both the left and right of the screen.



PICTURE CONTROL

• 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.



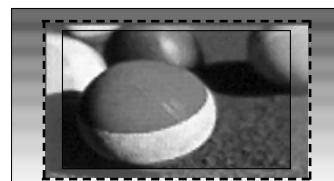
• Zoom

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

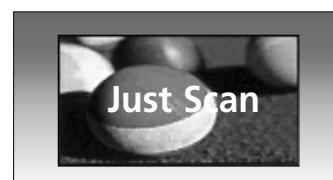
Choose Cinema Zoom when you wish the picture to be altered, both horizontally extended and vertically cropped. The picture adopting a compromise between alteration and screen coverage.



• 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.



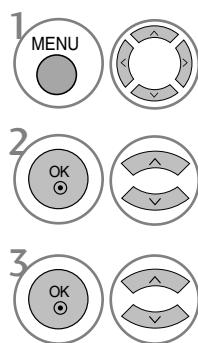
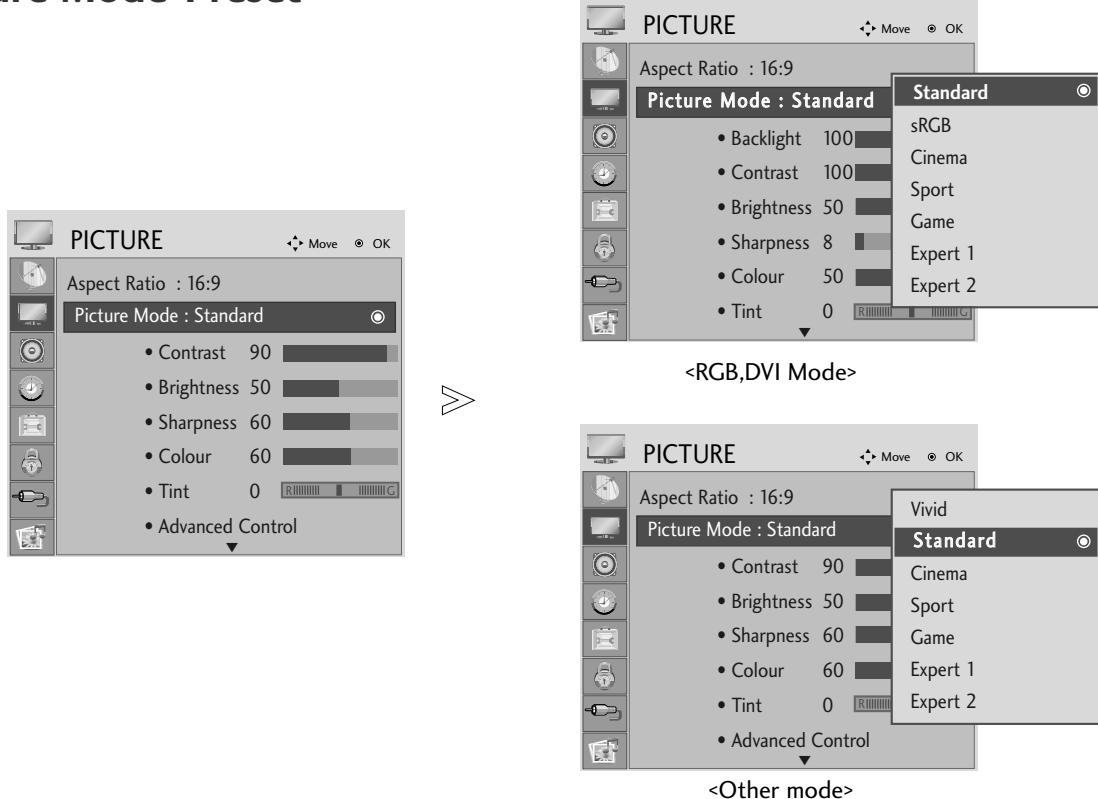
! NOTE

- 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).

PICTURE CONTROL

PRESET PICTURE SETTINGS

Picture Mode-Preset



1 Select PICTURE.

2 Select Picture Mode.

3 Select desired picture value.

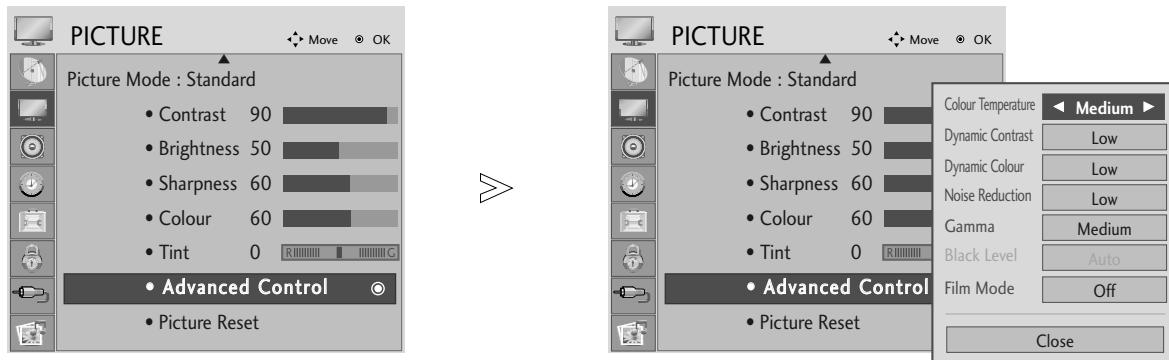
- Picture Mode adjusts the set for the best picture appearance. Select the preset value in the Picture Mode menu based on the programme category.

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

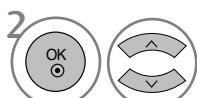
PICTURE CONTROL

Auto Colour Tone Control (Warm/Medium/Cool)

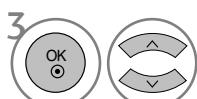
Choose one of three automatic colour adjustments. Set to warm to enhance warm colours such as red, or set to cool to see less intense colours with more blue.



Select PICTURE.



Select Advanced Control.



Select Colour Temperature.



Select either Cool, Medium or Warm.

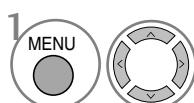
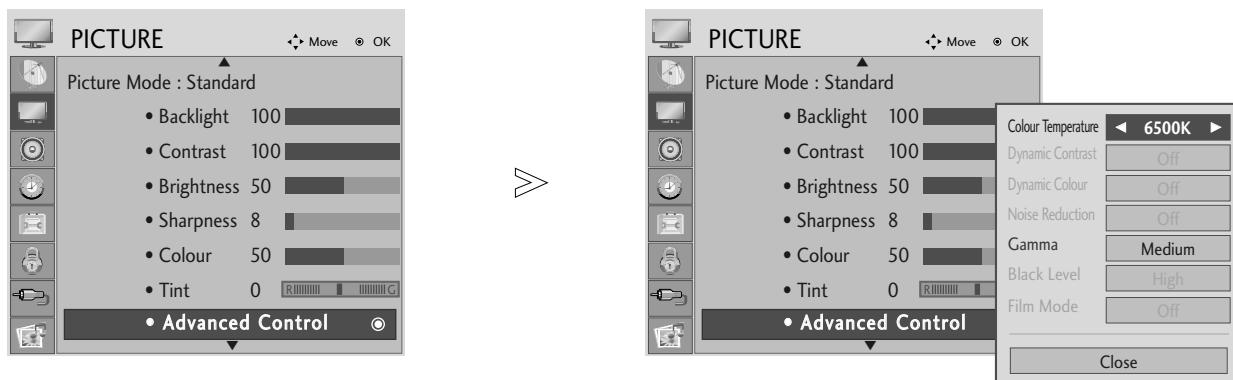
- Press the MENU or EXIT button to close the menu window.
- Press the RETURN button to move to the previous menu screen.

PICTURE CONTROL

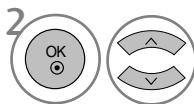
Auto Colour Tone Control (6500K/9300K)(RGB,DVI mode only)

Advanced control menu is inactivated when picture mode is sRGB.

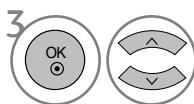
Choose one of two automatic colour adjustments.



Select PICTURE.



Select Advanced Control.



Select Colour Temperature.



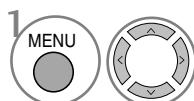
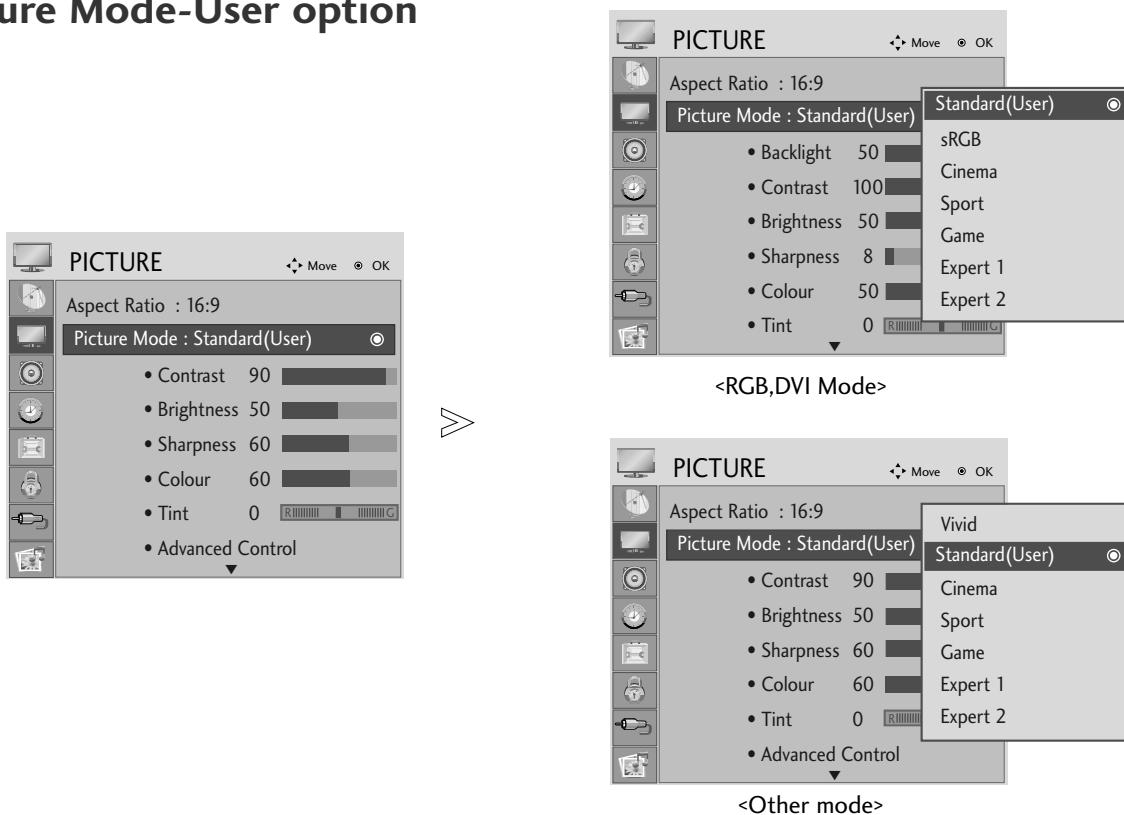
Select either 6500K, 9300K.

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

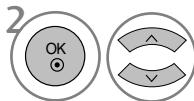
PICTURE CONTROL

MANUAL PICTURE ADJUSTMENT

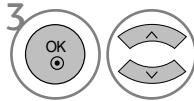
Picture Mode-User option



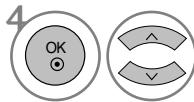
Select PICTURE.



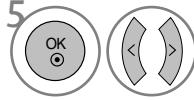
Select Picture Mode.



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 CONTROL

PICTURE IMPROVEMENT TECHNOLOGY

Dynamic Contrast

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

Dynamic Colour

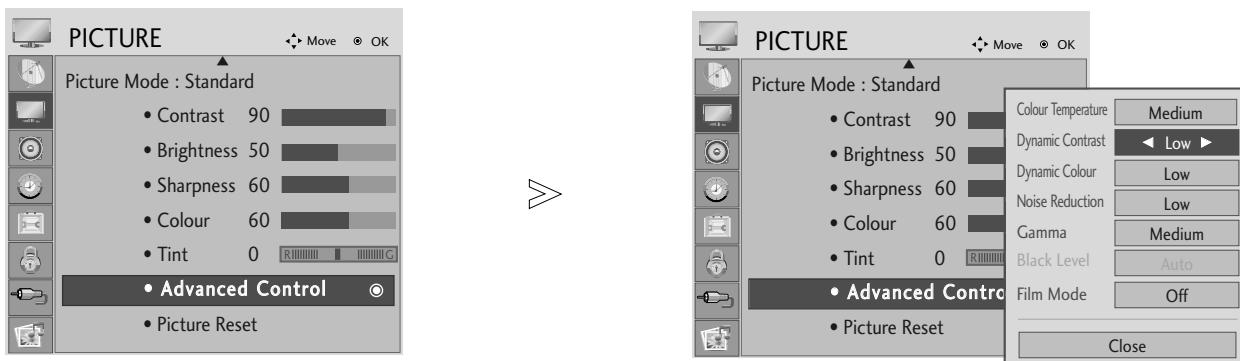
Adjusts the colour of the reflection automatically to reproduce natural colours as close as possible.

Noise Reduction

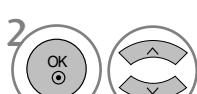
Removes interference up to the point where it does not damage the original picture.

Gamma

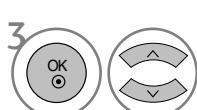
High gamma values display whitish images and low gamma values display high contrast images.



1 Select PICTURE.



2 Select Advanced Control.



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



4 Select your desired Source.

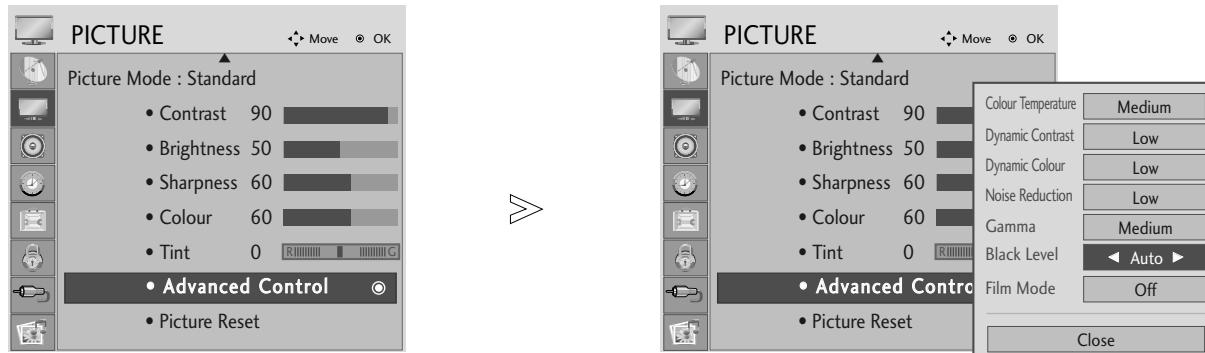
- Press the MENU or EXIT button to close the menu window.
- Press the RETURN button to move to the previous menu screen.

PICTURE CONTROL

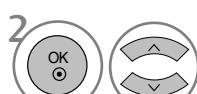
ADVANCED - BLACK (DARKNESS) LEVEL

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

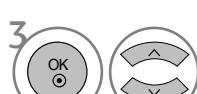
This function works in the following mode: AV (NTSC-M), HDMI or Component.



Select PICTURE.



Select Advanced Control.



Select Black Level.



Select Low or High.

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

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

! NOTE

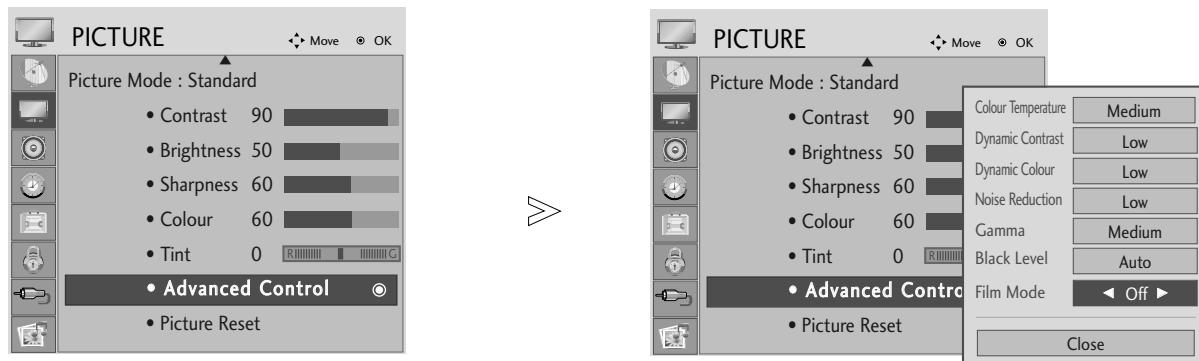
- If input is not AV(NTSC-M), HDMI or component, this function set to auto.
- In case of auto, user can't adjust it directly.
- Auto: Realizing the black level of the screen and set it to High or Low automatically.

PICTURE CONTROL

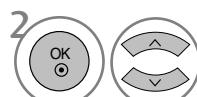
ADVANCED - FILM MODE

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

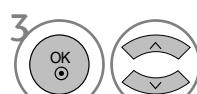
This feature operates only in TV, AV and Component 480i/576i/1080i mode.



Select PICTURE.



Select Advanced Control.



Select Film Mode.



Select On or Off.

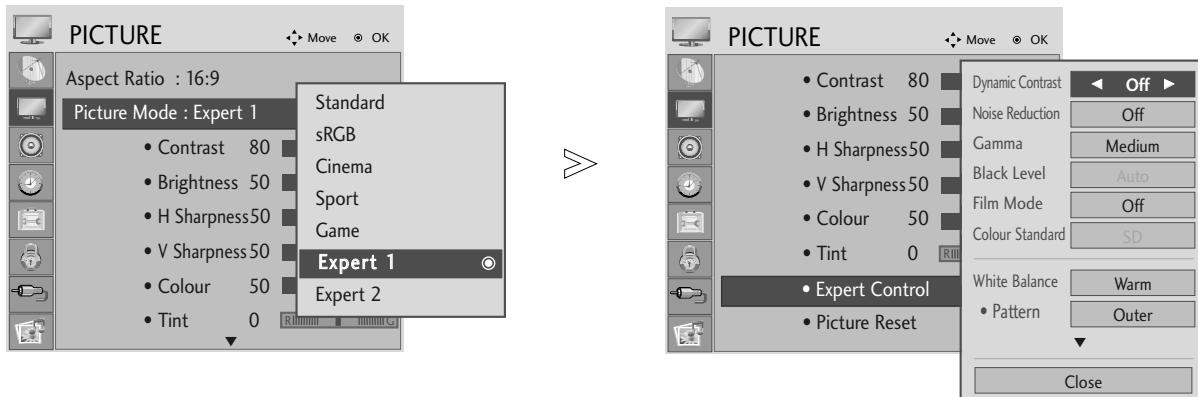
- Press the MENU or EXIT button to close the menu window.
- Press the RETURN button to move to the previous menu screen.

PICTURE CONTROL

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.



- 1 Select **PICTURE**.
- 2 Select **Picture Mode**.
- 3 Select **Expert1** or **Expert2**.
- 4 Select **Expert Control**.
- 5 Select your desired Source.
- 6 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.

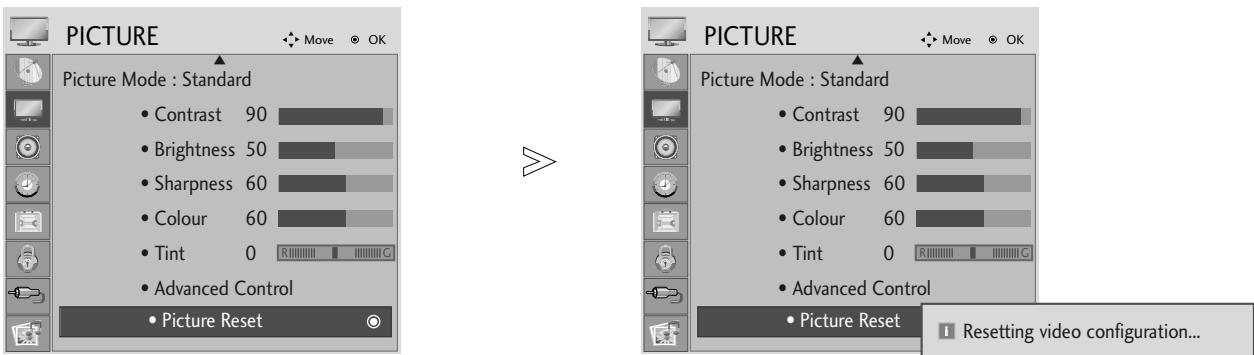
PICTURE CONTROL

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)	■ You can adjust brightness of dark area and middle gray level area of the picture. <ul style="list-style-type: none"> • Low : Make dark and middle gray level area of the picture brighten. • Medium: Express original picture gradation. • High: Make dark and middle gray level area of the picture darken.
Black Level (Low/High)	<ul style="list-style-type: none"> • Low : The reflection of the screen gets darker. • High: The reflection of the screen gets brighter. • Auto : Realizing the black level of the screen and set it to High or Low automatically. ■ Makes dark parts on the screen look darker. 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”.
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)	■ Select the international standard for the colour gamut that will be applied when the colour gamut is set to Standard. <ul style="list-style-type: none"> • SD: Increase colour accuracy by adjusting the output image to meet the EBU (European Broadcasting Union) Colour Coordinate Standard. • HD: Increase colour accuracy by adjusting the output image to meet ITU.BT-709 (High Definition Signal International Colour Coordinate Standard).
White Balance (Medium/Warm/Cool)	■ White Balance (Medium/Warm/Cool) <ul style="list-style-type: none"> • Adjust white balance. ■ Pattern (Inner/Outer) <ul style="list-style-type: none"> • Decide whether to use the Inner Pattern or External Pattern when adjusting white balance. ■ Red Gain/Green Gain/Blue Gain <ul style="list-style-type: none"> • Adjust high-level white balance. ■ Red Offset/Green Offset/Blue Offset <ul style="list-style-type: none"> • Adjust low-level white balance.
Colour Management System	■ Colour (Red/Green/Blue/Yellow/Cyan/Magenta) <ul style="list-style-type: none"> • Adjust colour saturation by area. ■ Tint (Red/Green/Blue/Yellow/Cyan/Magenta) <ul style="list-style-type: none"> • Adjust colour tint by area.

PICTURE CONTROL

PICTURE RESET

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



1   Select PICTURE.

2   Select Picture Reset.

3  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.

PICTURE CONTROL

RTC(Response time control)

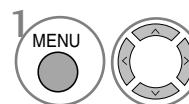
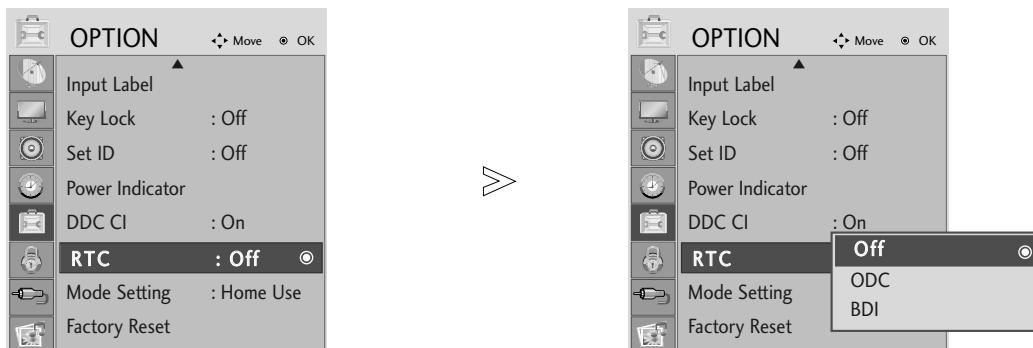
-ODC (Over Drive Control)

-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.

! NOTE

► BDI Setting

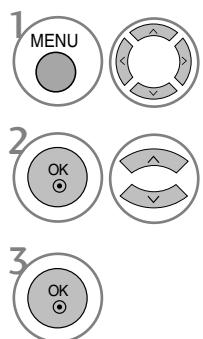
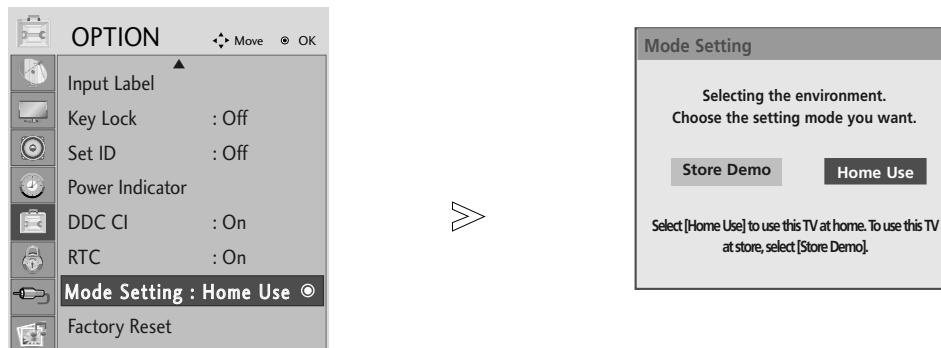
When you selecting BDI, you can't select backlight menu at picture OSD.

You can see flickering and dark image but it's the original characteristic of BDI function.

PICTURE CONTROL

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 **OPTION**.

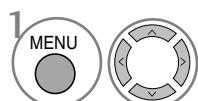
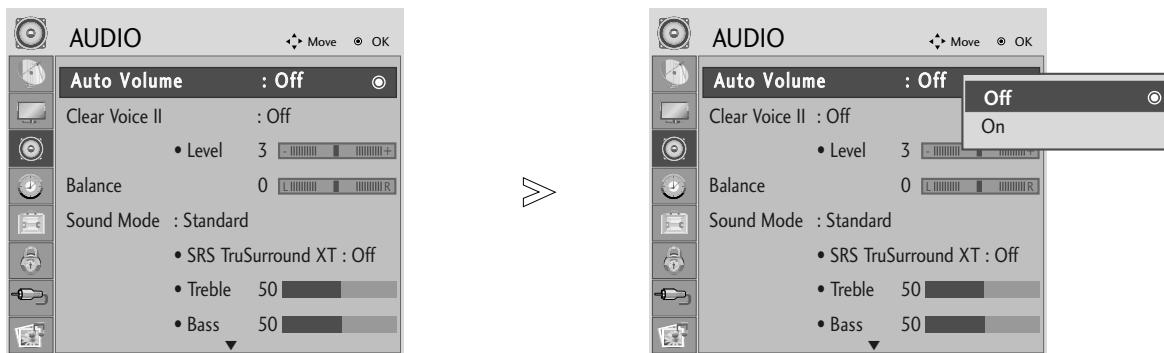
Select **Mode Setting**.

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

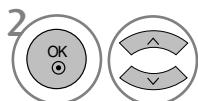
SOUND & LANGUAGE CONTROL

AUTO VOLUME LEVELER

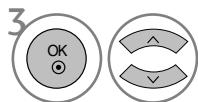
AVL automatically remains on the same volume level if you change programmes.



Select AUDIO.



Select Auto Volume.



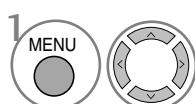
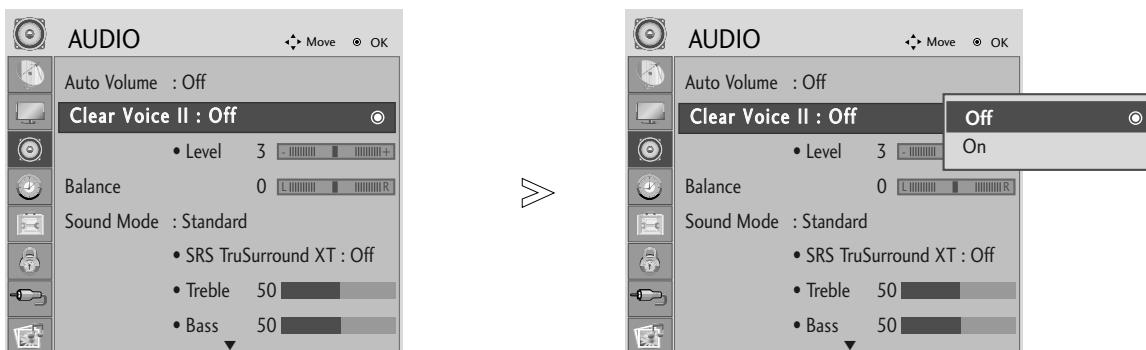
Select On or Off.

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

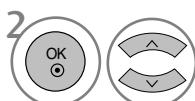
SOUND & LANGUAGE CONTROL

CLEAR VOICE II

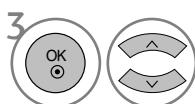
By differentiating the human sound range from others, it helps users listen to human voices better.



Select AUDIO.



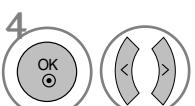
Select Clear Voice II



Select On or Off.

- Select levels from '-6' to '+6'.

When the **Clear Voice II** is selected **On**,



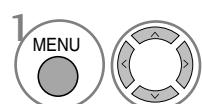
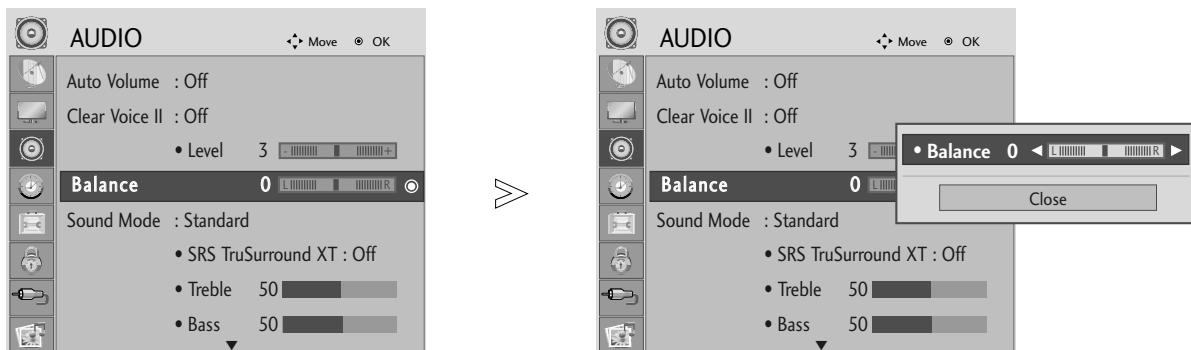
Select the desired **Level**.

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

SOUND & LANGUAGE CONTROL

BALANCE

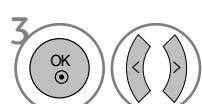
You can adjust the sound balance of the speakers to preferred levels.



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.

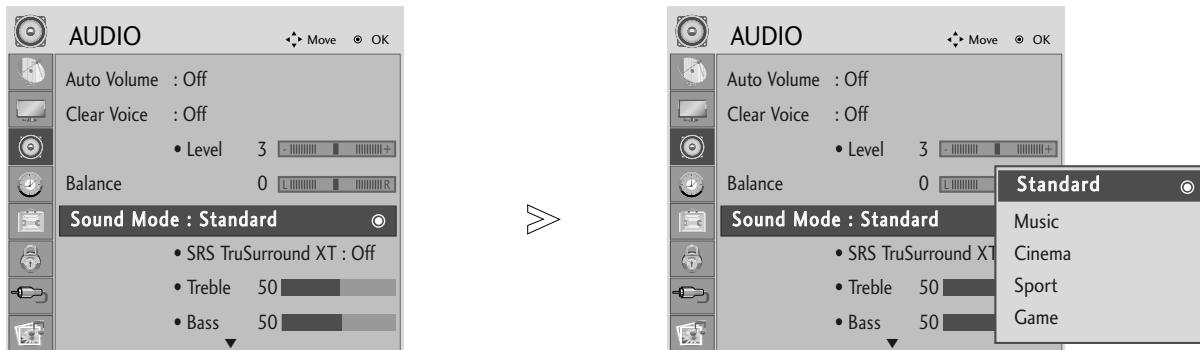
SOUND & LANGUAGE CONTROL

PRESET SOUND SETTINGS - SOUND MODE

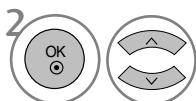
You can select your preferred sound setting; **Standard**, **Music**, **Cinema**, **Sport** and **Game** and you can also adjust the frequency of the equalizer.

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

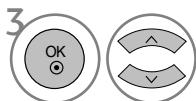
Standard, **Music**, **Cinema**, **Sport** and **Game** are preset for optimum sound quality at the factory.



1 Select AUDIO.



2 Select Sound Mode.



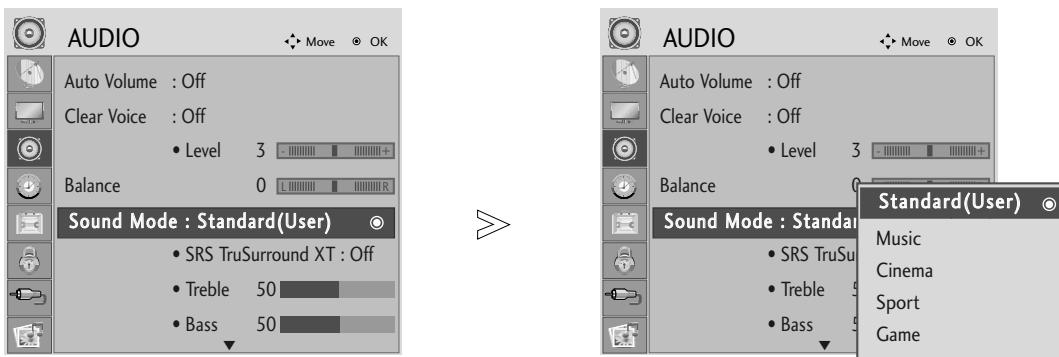
3 Select Standard, Music, Cinema, Sport or Game.

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

SOUND & LANGUAGE CONTROL

SOUND SETTING ADJUSTMENT - USER MODE

Adjusting the audio equalizer.



- 1 Select AUDIO.
- 2 Select Sound Mode.
- 3 Select Standard, Music, Cinema, Sport or Game.
- 4 Select a Treble, Bass.
- 5 Set the desired sound level.

SRS TRUSURROUND XT

Select this option to sound realistic.

- 1 Select AUDIO.
- 2 Select SRS TruSurround XT.
- 3 Select On or Off.

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

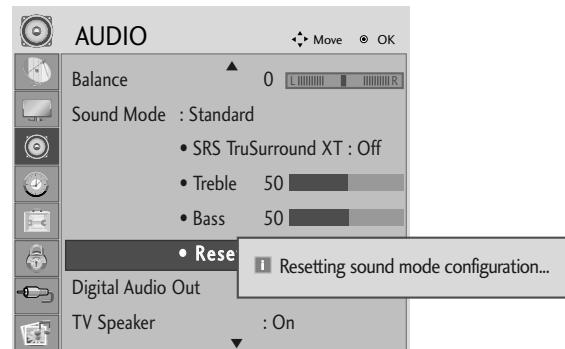
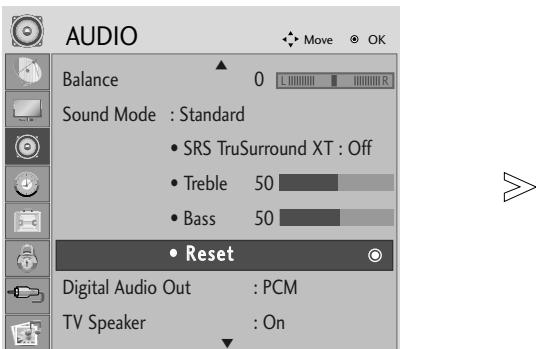
- Press the MENU or EXIT button to close the menu window.
- Press the RETURN button to move to the previous menu screen.

- **SRS** is a trademark of SRS Labs, Inc.
- TruSurround XT technology is incorporated under license from SRS Labs, Inc.

SOUND & LANGUAGE CONTROL

AUDIO RESET

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



1 Select AUDIO.

2 Select Reset.

3 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.

SOUND & LANGUAGE CONTROL

SELECTING DIGITAL AUDIO OUT

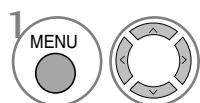
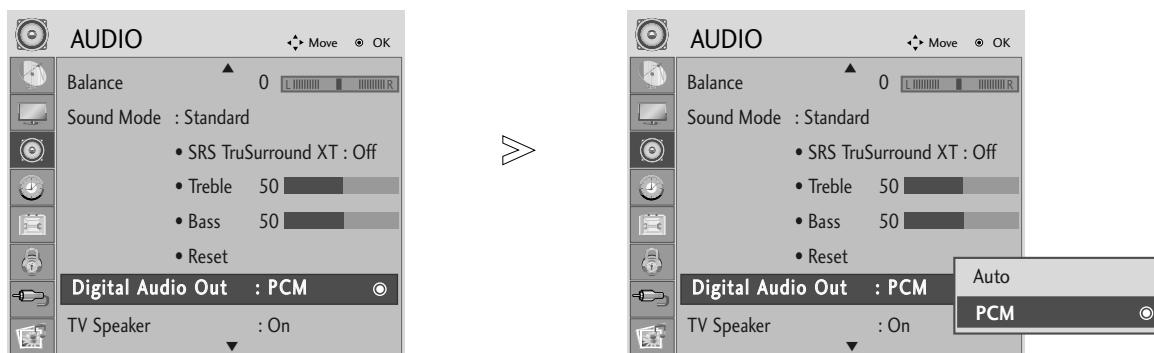
This function allows you to select your preferred Digital Audio Output.

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

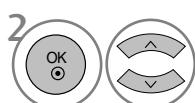
When Dolby digital is available, selecting Dolby Digital in the Digital Audio Out menu will set SPDIF output to Dolby Digital.

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

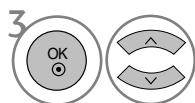
Even if both Dolby Digital and Audio language have been set in a channel which broadcast Dolby Digital Audio, only Dolby Digital will be played.



1 Select AUDIO.



2 Select Digital Audio Out.



3 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.

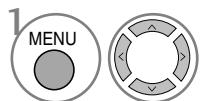
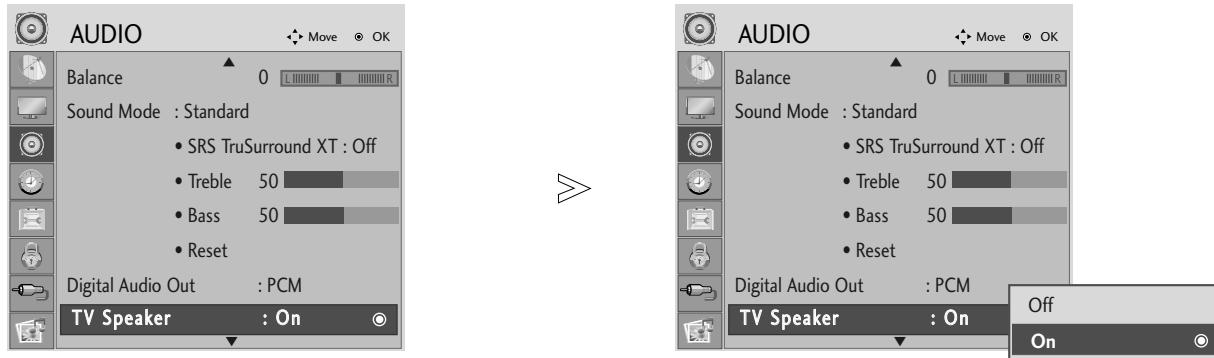
SOUND & LANGUAGE CONTROL

TV SPEAKERS ON/ OFF SETUP

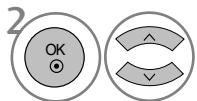
You can adjust the internal speaker status.

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

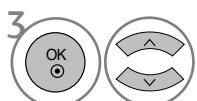
If you wish to use an external Hi-Fi system, turn off the TV internal speakers.



1 Select **AUDIO**.



2 Select **TV Speaker**.



3 Select **On** or **Off**.

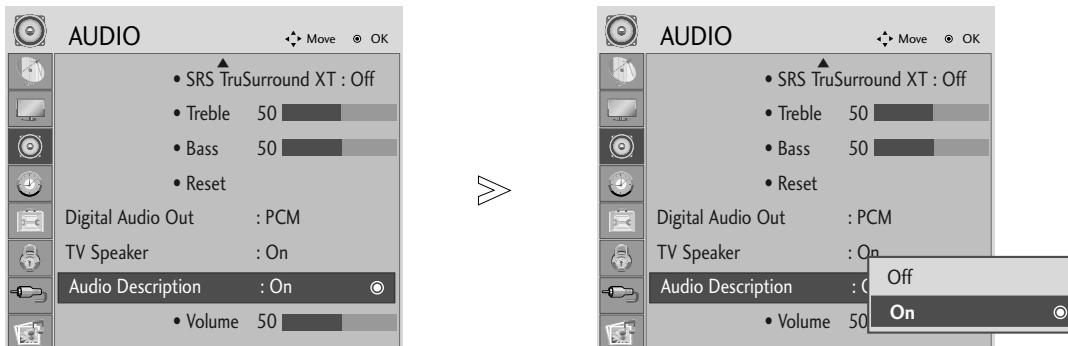
- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

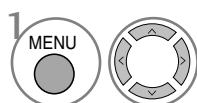
SOUND & LANGUAGE CONTROL

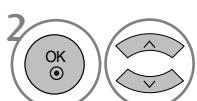
AUDIO DESCRIPTION (IN DIGITAL MODE ONLY)

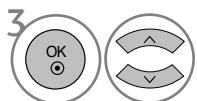
This function is for the blind, and provides explanatory audio describing the current situation in a TV programme in addition to the basic audio.

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

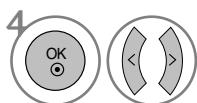


1  Select **AUDIO**.

2  Select **Audio Description**.

3  Select **On** or **Off**.

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

4  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.

SOUND & LANGUAGE CONTROL

I/II

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.

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

Speaker Sound Output Selection

In AV, 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.

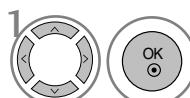
L+L: Audio signal from audio L input is sent to left and right loud speakers.

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.

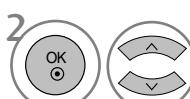


Select your country.

* If you want to change Language/ Country selection



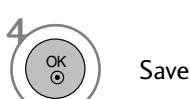
Select OPTION.



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

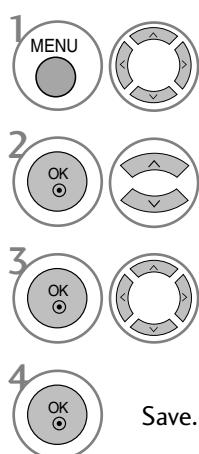
LANGUAGE SELECTION (IN DIGITAL MODE ONLY)

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.

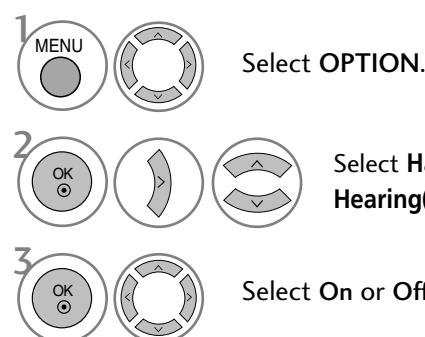


Select OPTION.

Select Audio Language, Subtitle Language.

Select your desired language.

Save.



Select OPTION.

Select Hard of Hearing(□).

Select On or Off.

- 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 Audio
	Dolby Digital Audio
	Audio for "Visual Impaired"
	Audio for "Hearing Impaired"

< 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.

Subtitle Language OSD Information

Display	Status
N.A	Not Available
	Teletext Subtitle
	Subtitle for "Hard of Hearing"

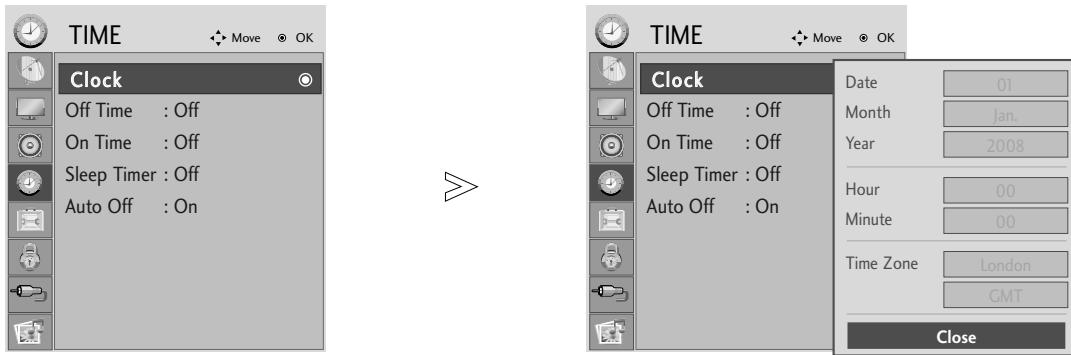
- The audio/subtitles can be displayed in a simpler form with 1 to 3 characters broadcast by the service provider.
- When you select supplementary Audio (Audio for "Visual/Hearing Impaired") it may output a part of the Main audio.

TIME SETTING

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.)

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



- 1   Select TIME.
- 2   Select Clock.
- 3   Select either the year, date, or time option.
- 4  Set the year, date, and time options.

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

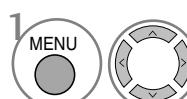
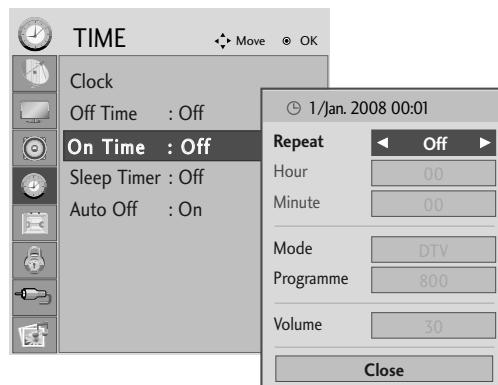
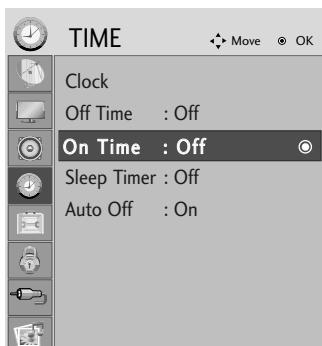
TIME SETTING

AUTO ON/OFF TIMER SETTING

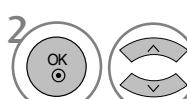
The Off time function automatically switches the set to standby at a preset time.

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.



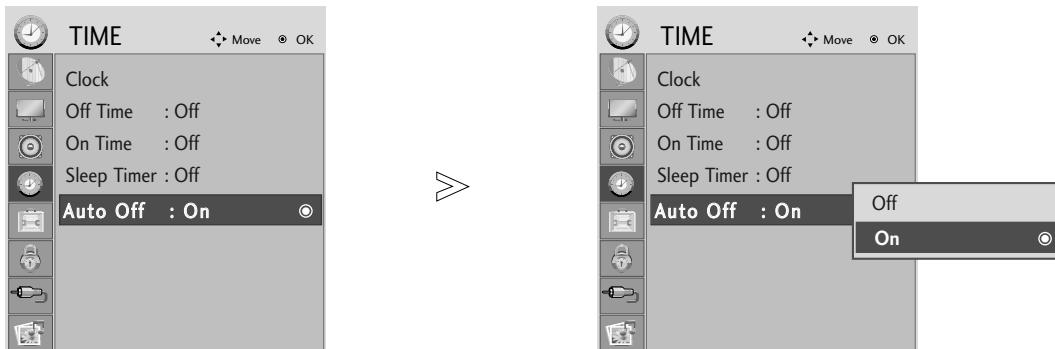
Adjust volume level at switch-on.

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

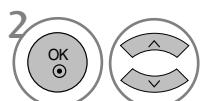
TIME SETTING

AUTO SHUT-OFF SETTING

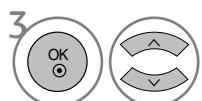
If the set is switched on and there is no input signal, it will switch off automatically after 10 minutes.



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 SETTING

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.

- 1   Select TIME.
- 2   Select Time Zone.
- 3   Select your viewing area time zone.
- 4  Confirm it.

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.

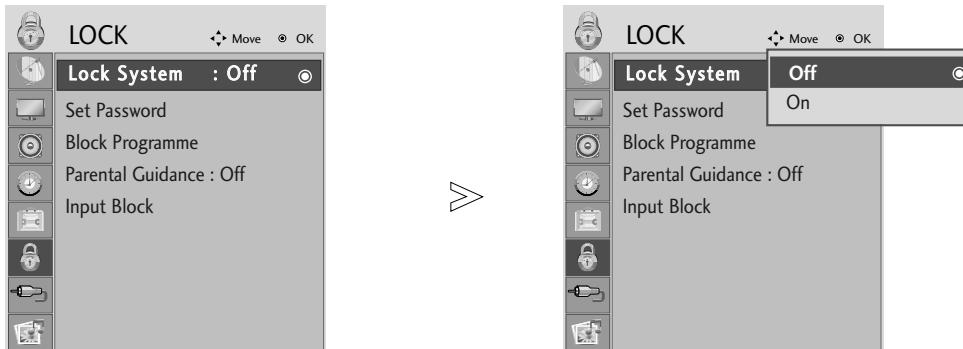
- 1   Select TIME.
- 2   Select Sleep Timer.
- 3   Select Off, 10, 20, 30, 60, 90, 120, 180 or 240 Min.
- 4  Confirm it.

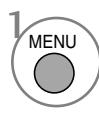
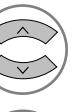
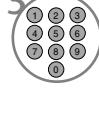
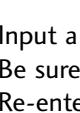
- When you switch the set off, the preset sleep time is cancelled.
- You can also adjust Sleep Timer in the TIME menu.

PARENTAL CONTROL / RATINGS

SET PASSWORD & LOCK SYSTEM

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



- 1   Select **LOCK**.
- 2   Select **Lock System**.
- 3   Select **On**.
- 4    Set the password.
- 5   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', '7' on the remote control handset.

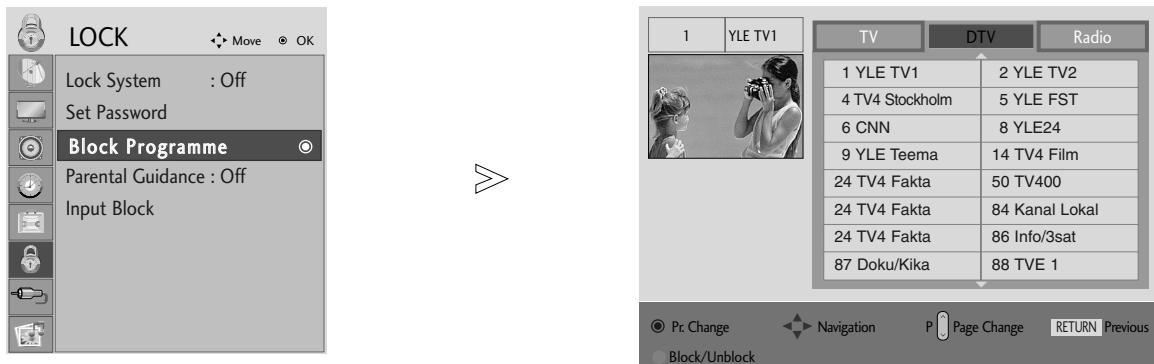
- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **RETURN** button to move to the previous menu screen.

PARENTAL CONTROL / RATINGS

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”.



- 1 Select **LOCK**.
- 2 Select **Block Programme**.
- 3 Enter the **Block Programme**.
- 4 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 / RATINGS

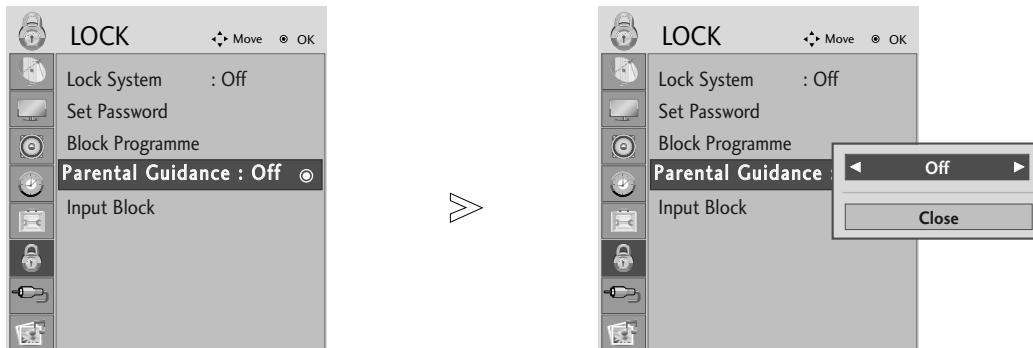
PARENTAL CONTROL (IN DIGITAL MODE ONLY)

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.



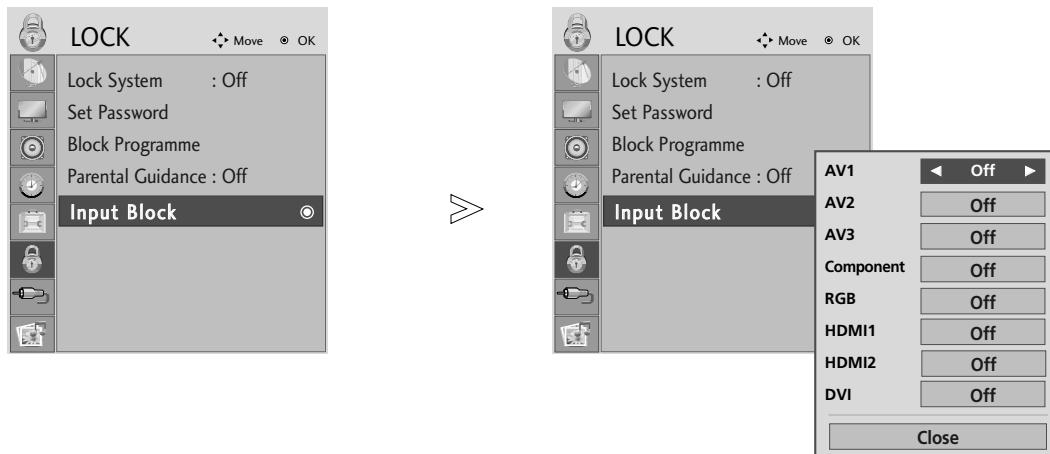
- 1   Select **LOCK**.
- 2   Select **Parental Guidance**.
- 3   Make appropriate adjustments.
- 4  Save.

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

PARENTAL CONTROL / RATINGS

INPUT BLOCK

Enables you to block an input.



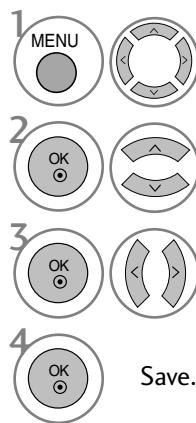
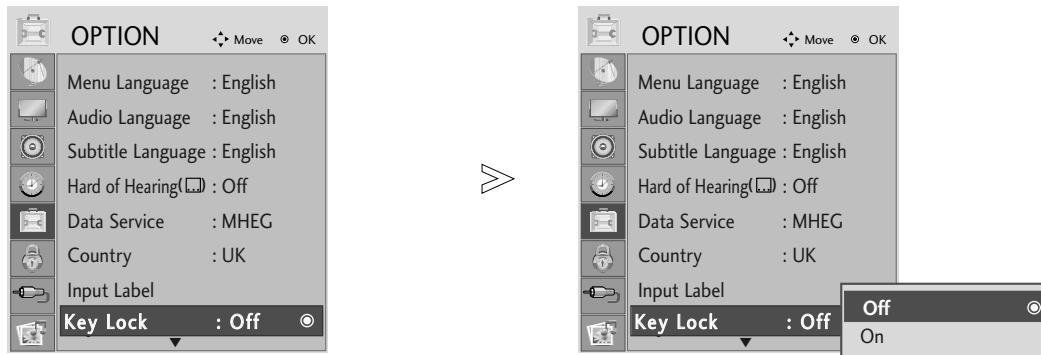
- 1   Select **LOCK**.
- 2   Select **Input Block**
- 3   Select the source.
- 4   Select **Off** or **On**.

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

PARENTAL CONTROL / RATINGS

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.



Select OPTION.

Select Key Lock.

Select On or Off.

Save.

- In Key Lock 'On', if the set is turned off, press the \odot / I, INPUT, PR \blacktriangle \blacktriangledown 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.

TO USE A USB DEVICE

When connecting a USB device

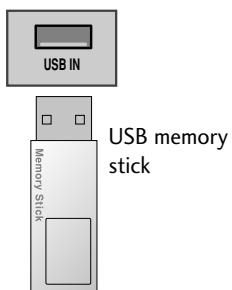
When you connect a USB device, this pop up menu is displayed, automatically.

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.

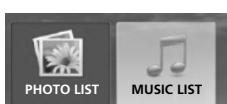
In USB device, you can not add a new folder or delete the existing folder.

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



- This TV Supports on JPEG and MP3.

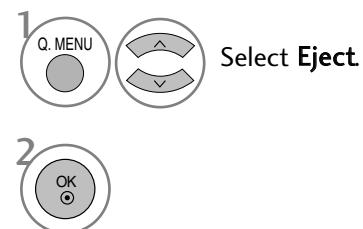
- 2 Select **PHOTO LIST** or **MUSIC LIST**.



- 3

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 manufacturer does not cover the product bearing data damage.

TO USE A USB DEVICE

PHOTO LIST

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

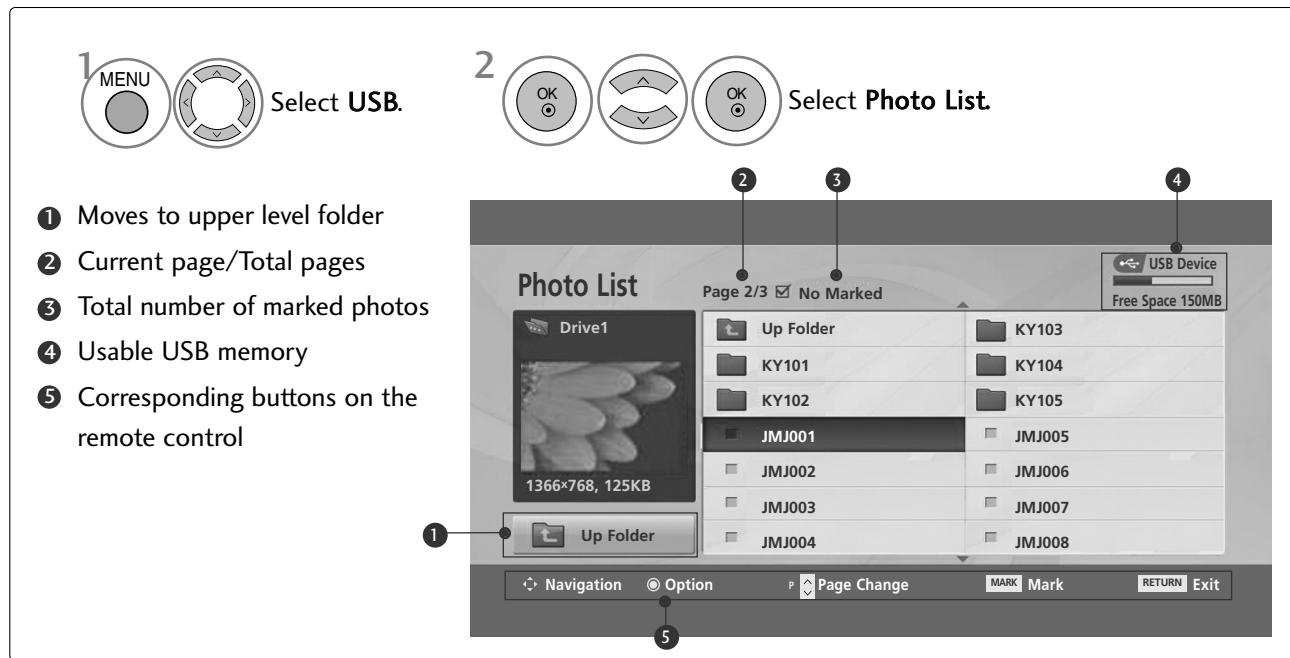
PHOTO(*.JPEG) supporting file

Baseline: 15360 x 8640

Progressive format : 1024 x 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.

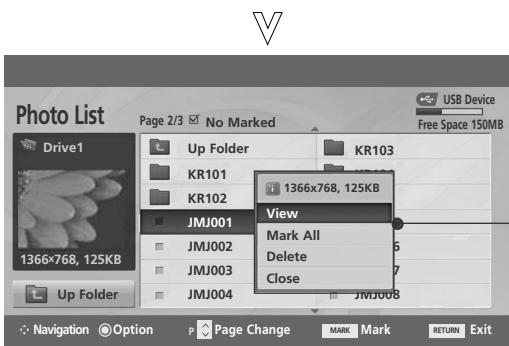
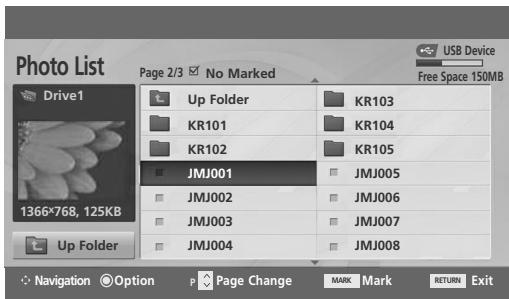
Screen Components



- Press the RETURN button to close the menu window.

TO USE A USB DEVICE

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.

- 1 Select the target folder or drive.
- 2 Select the desired photos.
- 3 Show the PopUp menu.
- 4 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.

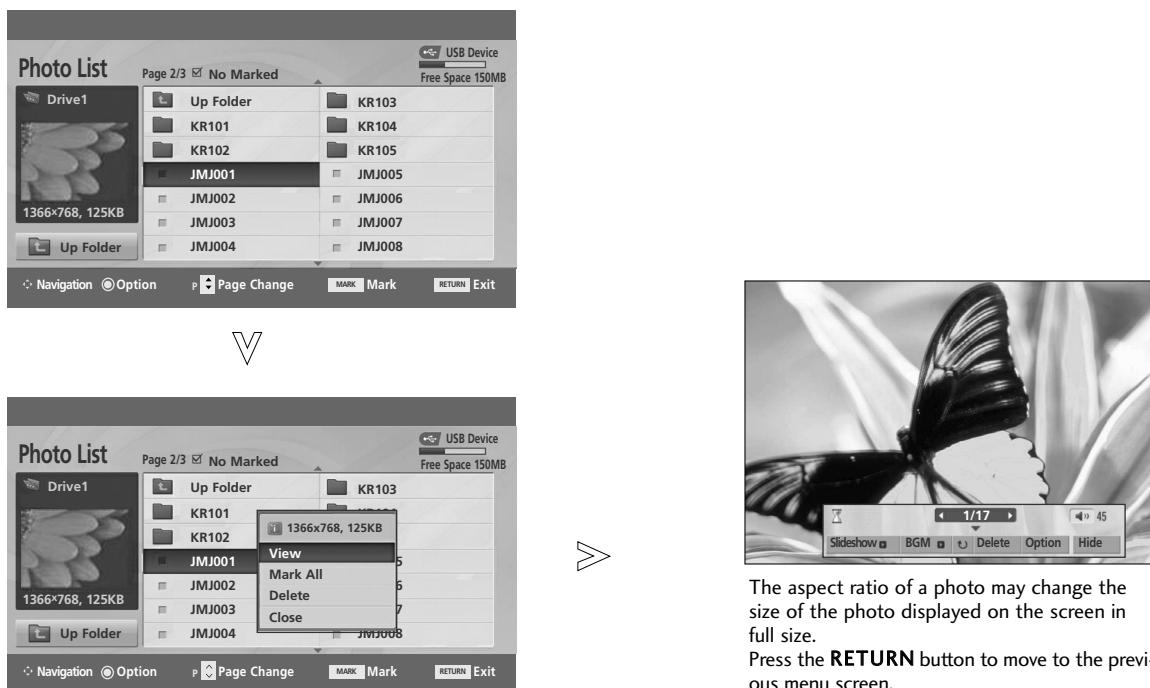
- Press the **RETURN** button to close the menu window.

TO USE A USB DEVICE

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.

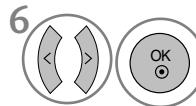


- 1 Select the target folder or drive.
- 2 Select the desired photos.
- 3 Show the PopUp menu.
- 4 Select **View**.
- 5 The selected photo is displayed in full size.

- Use the **P** button to navigation in the photo page.

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

TO USE A USB DEVICE



Select the **Slideshow** , **BGM** , **(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** .

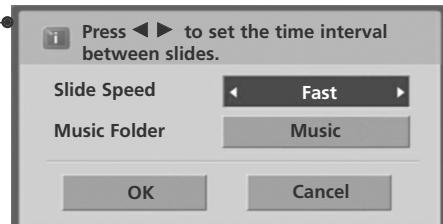
► **(Rotate)** : Rotate photos.

- 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.

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

TO USE A USB DEVICE

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

1 Select **USB**.

2 Select **Music List**.

① Moves to upper level folder
② Current page/Total pages
③ Total number of marked music title
④ Usable USB memory
⑤ Corresponding buttons on the remote control

① Up Folder

② Page 2/3 No Marked

③ Free Space 150MB

④ Free Space 150MB

⑤

Title	Duration
Up Folder	
Favorite Music	
Favorite Music No.2	
Velvet Goldmine (OST vers2)	1:34
Good Bye (Original Ver.)	1:15
Urban Nite (Feat.Amin.J)	1:20

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

TO USE A USB DEVICE

Music Selection and PopUp Menu

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



V



► **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.

- 1  Select the target folder or drive.
- 2   Select the desired music title
- 3  Show the PopUp menu.
- 4   Select the desired PopUp 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.

TO USE A USB DEVICE

■ 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

◀◀ / ▶▶	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.
II	During playback, press the Pause(II) 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 PLAY(▶) 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

- ① Enter the desired page number as a three-digit number with the **NUMBER** buttons. If during selection you press a wrong number, you must complete the three-digit number and then re-enter the correct page number.
- ② The **PR+** 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

- ① With the blue button you can progress from block to block.
- ② Use the yellow button to proceed to the next group with automatic overflow to the next block.
- ③ With the green button you can proceed to the next existing page with automatic overflow to the next group.
Alternatively, the **PR+** button can be used.
- ④ The red button permits 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  button to select the index page.
- 2 You can select the pages which are colour coded along the bottom line with the same coloured buttons.
- 3 Corresponding to the SIMPLE teletext mode, you can select a page by entering its three digit page number with the NUMBER buttons in FASTEXT mode.
- 4 The PR+ 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

- 1 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.
- 2 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.
- 3 To change digital teletext service, just select a different service by the numeric or **PR +** or **-** button.

If pressing the **MENU**, **GUIDE** or **INFO** **①** button, the teletext service disappear temporarily. When pressing these buttons again, the teletext service is appeared.



TELETEXT IN DIGITAL SERVICE

- 1 Press the numeric or **PR +** or **-** button to select a certain service which broadcasts digital teletext.
- 2 Press the **TEXT** or colour button to switch on teletext.
- 3 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.
- 4 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** **①** button, the teletext service disappears temporarily. When pressing these buttons again, the teletext service is appears.



APPENDIX

TROUBLESHOOTING

The operation does not work normally.

The remote control
doesn't work

- Check to see if there is any object between the product and the remote control causing obstruction. Ensure you are pointing the remote control directly at the set.
- Ensure that the batteries are installed with correct polarity (+ to +, - to -).
- Ensure that the correct remote operating mode is set: TV, VCR, etc.
- Install new batteries.

Power is suddenly
turned off

- Is the sleep timer set?
- Check the power control settings. Power interrupted.
- No broadcast on station tuned with **Auto sleep** activated.

The video function does not work.

No picture & No sound

- Check whether the product is turned on.
- Try another channel. The problem may be with the broadcast.
- Is the power cord inserted into wall power outlet?
- Check your antenna direction and/or location.
- Test the wall power outlet, plug another product's power cord into the outlet where the product's power cord was plugged in.

Picture appears slowly
after switching on

- This is normal, the image is muted during the product startup process. Please contact your service centre, if the picture has not appeared after five minutes.

No color, poor colour,
or poor picture

- Adjust Colour in menu option.
- Keep a sufficient distance between the product and the VCR.
- Try another channel. The problem may be with the broadcast.
- Are the video cables installed properly?
- Activate any function to restore the brightness of the picture.

Horizontal/vertical bars
or picture shaking

- Check for local interference such as an electrical appliance or power tool.

Poor reception on
some channels

- Station or cable product experiencing problems, tune to another station.
- Station signal is weak, reorient antenna to receive weaker station.
- Check for sources of possible interference.

Lines or streaks
in pictures

- Check antenna (Change the direction of the antenna).

APPENDIX

The audio function does not work.

Picture OK & No sound	<ul style="list-style-type: none">■ Press the VOL + or - button.■ Sound muted? Press MUTE button.■ Try another channel. The problem may be with the broadcast.■ Are the audio cables installed properly?
No output from one of the speakers	<ul style="list-style-type: none">■ Adjust Balance in menu option.
Unusual sound from inside the product	<ul style="list-style-type: none">■ 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 indicator is blue but the screen appears extremely dark.	<ul style="list-style-type: none">■ Adjust brightness and contrast again.
Does the power indicator look amber?	<ul style="list-style-type: none">■ If the product is in power saving mode, move the mouse or press any key.
Does the 'Out of range' message appear?	<ul style="list-style-type: none">■ 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 style="list-style-type: none">■ The signal cable between PC and product is not connected. Check the signal cable.■ Press the 'INPUT' button in the remote control to check the input signal.

APPENDIX

'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 resolution (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.

APPENDIX

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

- 1 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 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

⚠ 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.

APPENDIX

PRODUCT SPECIFICATIONS

LCD Panel	Screen Type	27 inches Wide (686 mm) TFT (Thin Film Transistor) LCD (Liquid Crystal Display) Panel Visible diagonal size: 686 mm
	Pixel Pitch	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 x Height x Depth) Weight		654.1 x 494.6 x 210 mm (25.75 x 19.47 x 8.27 inches) 8.92 kg / 19.66 lbs
Environmental conditions	Operating Temperature	10 ~ 35°C
	Operating Humidity	20 ~ 80%
	Storage Temperature	-10 ~ 60°C
	Storage Humidity	5 ~ 90%

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

APPENDIX

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

1 Test your remote control.

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

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

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

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

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

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

PROGRAMMING CODE

DVD

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

APPENDIX

VCR

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

APPENDIX

IR CODES

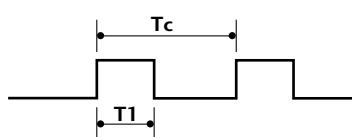
1. How to Connect

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

2. Remote Control IR Codes

- Output waveform

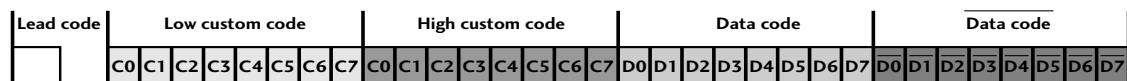
Single pulse, modulated with 37.917 KHz signal at 455 KHz



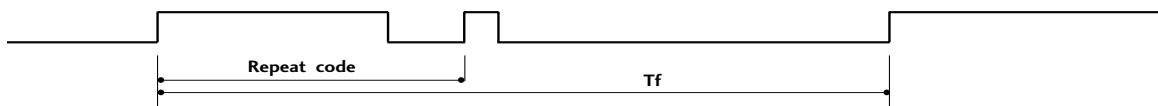
Carrier frequency
 $FCAR = 1/TC = fOSC/12$
 Duty ratio = $T1/TC = 1/3$

- Configuration of frame

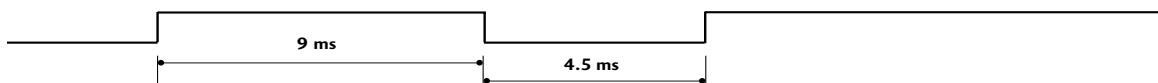
1st frame



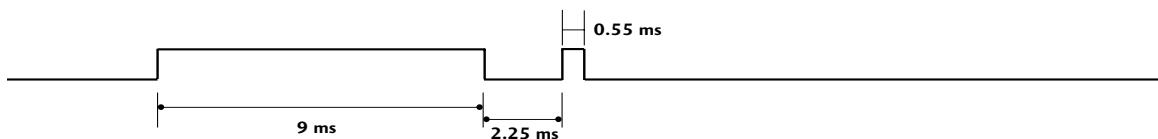
Repeat frame



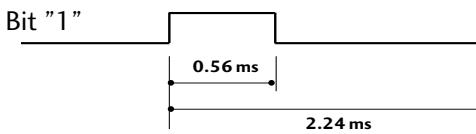
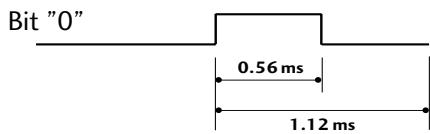
- Lead code



- Repeat code



- Bit description



- Frame interval: T_f

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



APPENDIX

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 (▲)	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
0B	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.MENU	R/C BUTTON
50	TV/PC	R/C BUTTON
F0	TV/RADIO	R/C BUTTON
0A	I/II	R/C BUTTON
5B	EXIT	R/C BUTTON
1E	MARK	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

APPENDIX

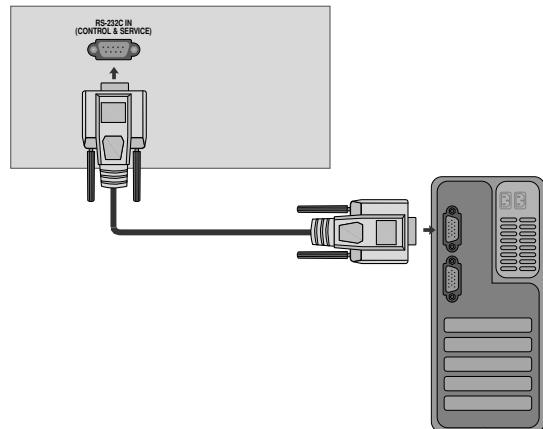
EXTERNAL CONTROL DEVICE SETUP

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.

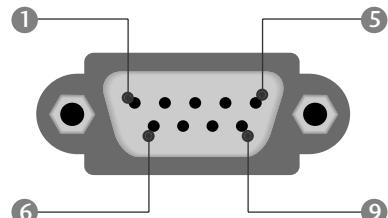
Connect the serial port of the control device to the RS-232C jack on the product back panel.

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 Configurations (Standard RS-232C cable)

	PC	TV	
RXD	2	3	TXD
TXD	3	2	RXD
GND	5	5	GND
DTR	4	6	DSR
DSR	6	4	DTR
RTS	7	8	CTS
CTS	8	7	RTS

D-Sub 9 D-Sub 9

3-Wire Configurations (Not standard)

	PC	TV	
RXD	2	3	TXD
TXD	3	2	RXD
GND	5	5	GND
DTR	4	6	DSR
DSR	6	4	DTR
RTS	7	7	RTS
CTS	8	8	CTS

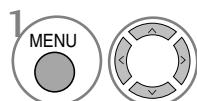
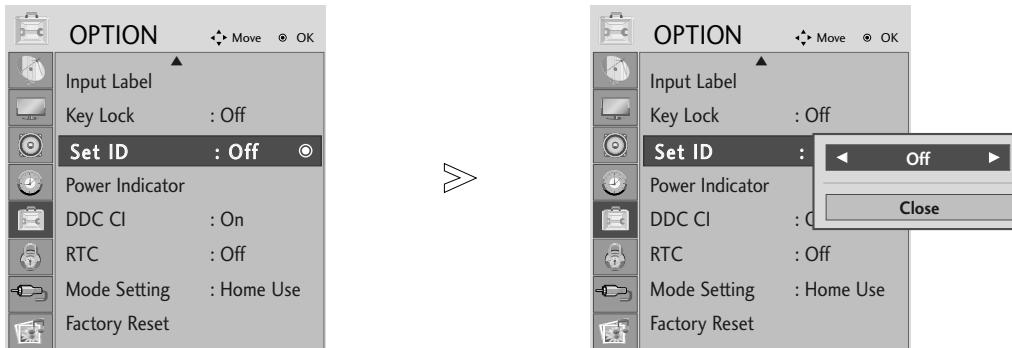
D-Sub 9 D-Sub 9

APPENDIX

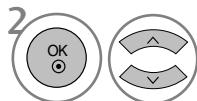
Set ID

Use this function to specify a set ID number.

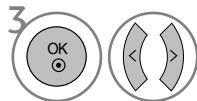
Refer to 'Real Data Mapping 1'. ▶ p.109



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.

APPENDIX

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 1	COMMAND 2	DATA (Hexadecimal)
01. Power	k	a	00 ~ 01
02. Aspect Ratio	k	c	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	i	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 mode	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	Refer to p. 109
19. Programme memory/Skip	m	b	00 ~ 01
20. Key	m	c	Key Code
21. Control Backlight	m	g	00 ~ 64
22. Input select (Main)	x	b	Refer to p. 109

* 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.

APPENDIX

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][][Set ID][][Data][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: k i)

► 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]

APPENDIX

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]

APPENDIX

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
C7	: 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)

Ack

[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

MSB	LSB
0 0 0 0 0 0 0 0	
External Input	Input Number

External Input				Data
0	0	0	0	DTV
0	0	0	1	Analogue
0	0	1	0	AV
0	1	0	0	Component
0	1	1	0	RGB
1	0	0	0	DVI
1	0	0	1	HDMI

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

Ack

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

LG Electronics Inc.

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.

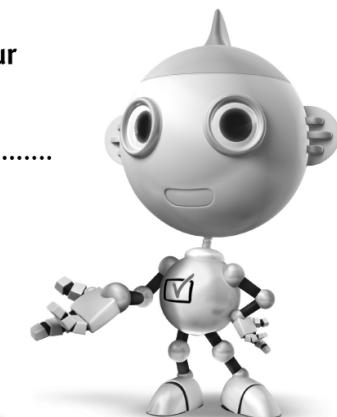


Visit us at digitaluk.co.uk call us on 0845 6 50 50 50[†]

[†]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

Keep this leaflet and your instruction manual safe – you'll need them



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:

1. 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