JVC
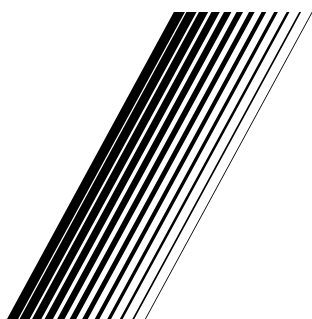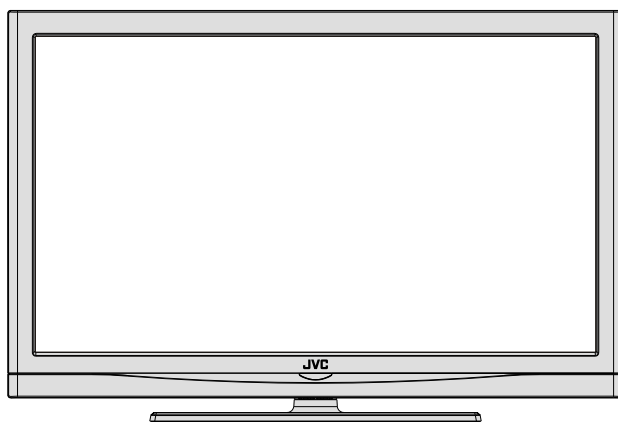
LT-40HG25J

LCD TV   INSTRUCTIONS

Dear Customer,

This apparatus is in conformance with the valid European directives and standards regarding electromagnetic compatibility and electrical safety.

European representative of Victor Company of Japan, Limited is:

JVC Technical Services Europe GmbH

Postfach 10 05 04

61145 Friedberg

Germany

Information for Users on Disposal of Old Equipment and Batteries

[European Union]

These symbols indicate that the electrical and electronic equipment and the battery with this symbol should not be disposed of as general household waste at its end-of-life. Instead, the products should be handed over to the applicable collection points for the recycling of electrical and electronic equipment as well as batteries for proper treatment, recovery and recycling in accordance with your national legislation and the Directive 2002/96/EC and 2006/66/EC.

By disposing of these products correctly, you will help to conserve natural resources and will help to prevent potential negative effects on the environment and human health which could otherwise be caused by inappropriate waste handling of these products.

Products

For more information about collection points and recycling of these products, please contact your local municipal office, your household waste disposal service or the shop where you purchased the product.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

[Business users]

If you wish to dispose of this product, please confirm attached "KESA ELECTRICALS SAFETY INSTRUCTIONS" to obtain information about the take-back of the product.

Battery

[Other Countries outside the European Union]

These symbols are only valid in the European Union.

Notice:

The sign Pb below the symbol for batteries indicates that this battery contains lead.

If you wish to dispose of these items, please do so in accordance with applicable national legislation or other rules in your country for the treatment of old electrical and electronic equipment and batteries.

Logo & License

HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

DVB is a registered trademark of the DVB Project

TRADEMARK ACKNOWLEDGMENT

"Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

Contents

Features

- Remote controlled colour LCD TV.
- Fully integrated digital TV (DVB-T DVB-T2 - MPEG2 MPEG4).
- DTV input supports 1920x1080i
- HDMI connectors for digital video and audio. This connection is also designed to accept high definition signals.
- USB input.
- 200 programmes from VHF, UHF(analogue).
- 1000 programmes for digital mode (IDTV).
- Integrated tuner DVB-T HD, MPEG 2 / MPEG 4 compatible.
- OSD menu system.
- Two scart sockets for external devices (such as video, video games, audio set, etc.).
- Stereo sound system. (German+Nicam)
- Teletext, fastext, TOP text.
- Headphone connection.
- Automatic programming system.
- Forward or backward manual tuning.
- Automatic sound mute when no transmission.
- NTSC playback.
- AVL (Automatic Volume Limiting).
- When no valid signal is detected, after 5 minutes the TV switches itself automatically to standby mode.
- PLL (Frequency Search).
- PC input.
- Plug&Play for Windows 98, ME, 2000, XP, Vista, Windows 7.
- Audio line out.
- Game Mode

Introduction

Thank you for choosing this product. This manual will guide you for the proper operation of your TV. Before operating the TV, please read this manual thoroughly.

Please keep this manual in a safe place for future references.

Package Contents

Remote Controller	Batteries: 2 X AAA
	Instruction Book
	Quick Guide
	Cable Holder
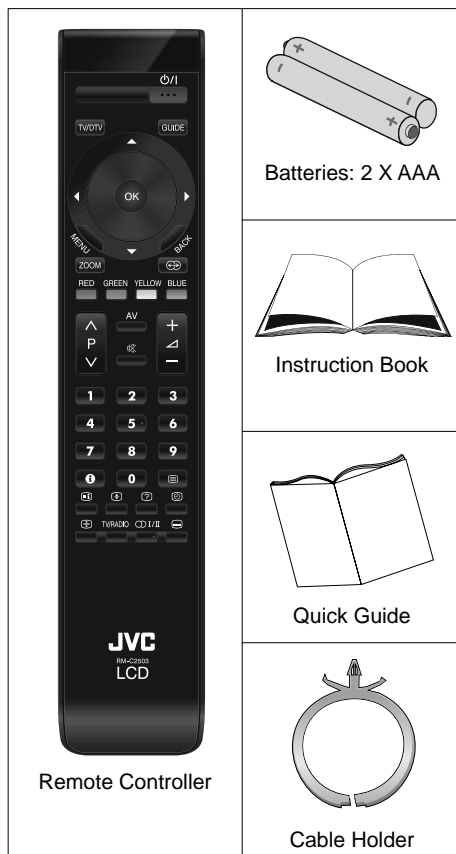
Note: You should check the accessories after purchasing. Make sure that each accessory is included.

Important Safety Information

Mains supply

This television is designed to operate from a 220 V - 240 V Volts 50Hz AC mains supply. Other power sources may damage it. Check that the rating label states 220 V - 240 V AC (-) before you plug it in for the first time.

Mains plug

We have fitted this television with a standard mains plug.

This appliance is intended for domestic household use only and should not be used for any other purpose or in any other application, such as for none domestic use or in a commercial environment

Never use a fused mains plug without the fuse cover.

The wires in the mains lead on this appliance are coloured in accordance with the following code:

Blue - Neutral, Brown - Live

As the colours may not correspond with the markings identifying the terminals in your plug proceed as follows.

The blue wire must be connected to the terminal marked N.

The brown wire must be connected to the terminal marked L.

No wire must be connected to the terminal in the plug which is marked with the letter E or with the earth symbol or coloured green and yellow.

Where the Mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
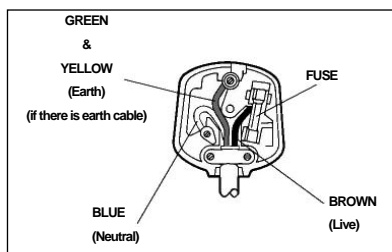
Safe use and care of your television

We have designed and made this television to meet the European safety standards, but as with any electronic equipment you must take care to stay safe and get the best results. Here is some good advice to help you do this.

Read these instructions carefully before you try to use the television.

Protect the mains lead. You must make sure the mains lead cannot be walked on, crushed, chafed or cut.

Avoid hursh conditions such as wet or damp places, high humidity, strong vibration, extremely high or low temperatures, strong sunlight and places that are very dusty.

Never fit makeshift stands or legs to the television.

Never let anyone push objects into holes and ventilation slots.

Don't continue to use your television if you have spilt liquids in it, if it is damaged in any way or if it does not work normally. Immediately unplug the television and get expert advice.

Switch off mains power or pull out the power plug when you leave the television unattended, unless the function of the television requires a continuous power supply.

Protect the screen from fingerprints.

This product is designed for domestic use only. Commercial or any other use may invalidate the guarantee and might be dangerous.

Ventilation

Place the television on a hard flat surface away from direct sunlight and heat sources. If it is in a cabinet, allow at least a 10cm gap all around. Don't obstruct the vetilation slots, including those underneath, with soft furnishings. Overheating will shorten the life of the television and increase the risk of fire.

Cleaning

Disconnect the mains supply and use a lightly dampened soft cloth. Do not use chemical solvents or strong detergents as these may damage the cosmetic surfaces or the screen.

Never allow water droplets to remain on the screen as moisture can cause permanent discolouration. Greasy marks must only be romeved with a commercial cleaner specifically recommended for LCD screens.

Batteries

Remove batteries when the television is not to be used for a long time. Batteries left in the equipment may cause damage trough deterioration and corrosive leakage , invalidating the guarantee. To protect the environment please use local recycling facilities for battery disposal.

Important Safety Warnings

1. To prevent electric shock, do not remoce any cover.
2. Danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type.
3. If anything goes wrong, don't try to fix it yourself and get a qualified service agent to look at it.
4. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases , shall be placed on the apparatus.
5. No naked flame sources, such as lighted candles, should be placed on the apparatus.
6. Pull the mains plug out of the wall socket and disconnect the aerial lead during thunderstorms.
7. To prevent injury this television must be securely attached to the wall or it's supplied stand in accordance with the installation instructions.
8. To prevent injury this television must be securely attached to the wall or it's supplied stand in accordance with the installation instructions.

Eye Fatigue

When using this product as a computer monitor, health and safety experts recommend short frequent breaks rather than occasional, longer breaks, for example a 5-10 minute break after an hour of continuous screen work is likely to be better than a 15 minute break every 2 hours. Do not use the monitor against a bright back ground and where sunlight or other light sources will shine directly on the screen.

Environmental Information

This television is designed to consume less energy to save environment. You not only help to save the environment but also you can save money by reducing electricity bills thanks to the energy efficiency feature of this TV. To reduce energy consumption, you should take the following steps: You can use Power Save Mode setting, located in the Feature menu. If you set Power Save Mode as On, the TV will switch to energy-saving mode and luminance level of TV set will be decreased to optimum level. Note that some picture settings will be unavailable to be changed when the TV is in Power Save Mode.

Power Save Mode

When the TV is not in use, switch off or disconnect the TV from the mains supply, this will also reduce energy consumption. Disconnect power when away for a longer period of time. Note that annually, using the TV set in Power Save Mode has more power efficiency than disconnecting the TV from the mains supply instead of leaving the TV in stand-by mode. However it is highly recommended to activate Power Save Mode setting to reduce your annual power consumption. Please help us to save the environment by following these steps.

WARNING

To prevent fire, never place any type of candle or open flame on the top or near the TV set.

Overview of the Remote Control

(1) **TV/DTV**: TV – Digital TV

(2) **OK**: OK / Confirm / Freezing Picture (in analogue mode) / Channel list (in DTV mode)

(3) ◀: Cursor left

(4) **MENU**: Menu on-off

(5) **ZOOM**: Image size

(6) **RED**: Sound menu (Analogue TV)

(7) **GREEN**: Picture Menu (Analogue TV)

(8) **AV**: Source selection

(9) P˅ / P̂ : Programme up / down

(10) (i): Info

(11) ☰ⓘ: Index Page (in TXT mode)

(12) ⊜: Expand (in TXT mode)

(13) ⊜: Hold (in TXT mode)

(14) **TV/RADIO**: Switches between TV and radio broadcasts.(in DTV mode)

(15) ⏻/I: Standby

(16) **GUIDE**: Programme guide

(17) ▲: Cursor up

(18) ▶: Cursor right

(19) **BACK**: Return

(20) ▼: Cursor down

(21) ↩: Jump to now (in EPG mode)

(22) **BLUE**: Install Menu (Analogue TV)

(23) **YELLOW**: Feature Menu (Analogue TV)

(24) − ◢ / ◢ +: Volume up / down

(25) ⊠: Muting

(26) 0,1...8,9 :Numeric buttons.

(27) ☰: Teletext on / PAT (Picture-and-text) / Teletext off (Analogue TV), Text on / Text off (Digital TV)

(28) ⓘ: Reveal

(29) ⊙: Time (in analogue mode)

(30) ⊡: Subtitle on-off

(31) ⊂⊃I/II: Mono-stereo / Dual I-II

(*) for EU countries only

JVC

RM-C2503
LCD
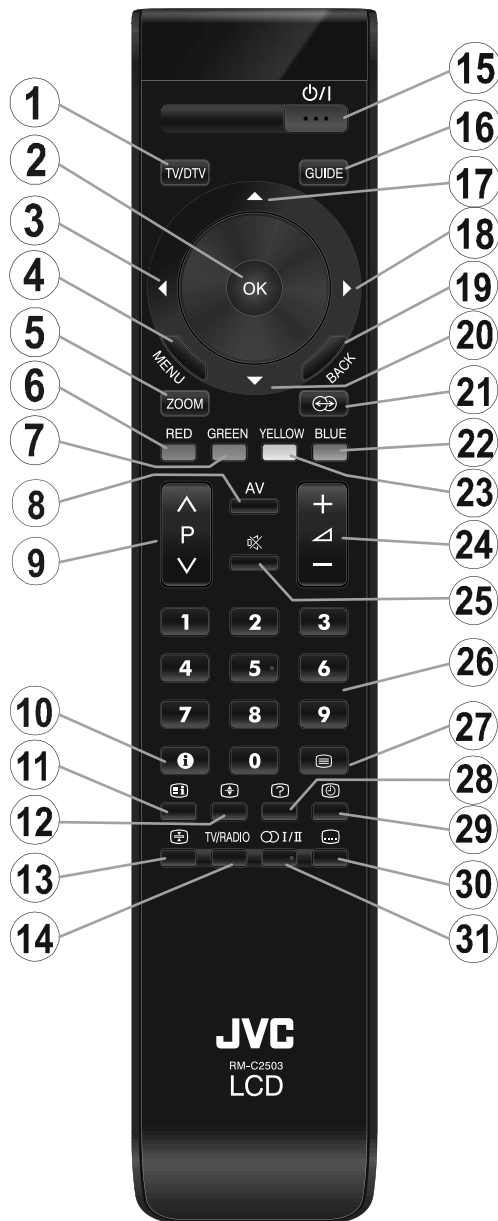
Inserting Batteries in the Remote Control

• Remove the battery cover located on the back of the handset by gently pulling backwards from the indicated part.

• Insert two **AAA/R3** or equivalent type batteries inside. Place the batteries in the right directions and replace the battery cover.
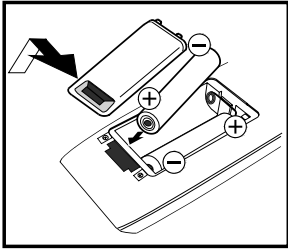
Note: Remove the battery from remote control handset when it is not to be used for a long period. Otherwise it can be damaged due to any leakage of batteries.

Batteries should not be exposed to excessive heat such as sunshine, fire or the like.

Operating Range for the Remote Control

• Point the top of the remote control toward the LCD TV's remote sensor LED while pressing a button.
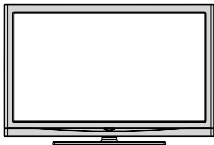
Remote range is approximately 7m/23ft.

Power Connection

IMPORTANT: The TV set is designed to operate on 220 V - 240 V AC, 50 Hz.

• After unpacking, allow the TV set to reach the ambient room temperature before you connect the set to the mains.

• Plug the power cable to the mains socket outlet.

Aerial Connection

• Connect the aerial or cable TV plug to the AERIAL INPUT socket located at the rear of the TV.
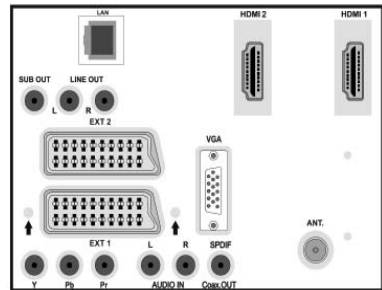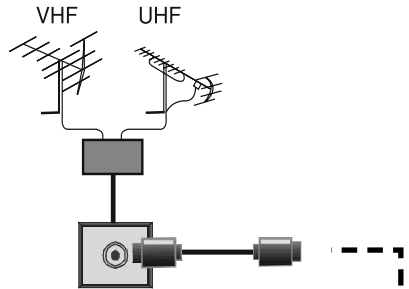
Switching the TV On/Off

To Switch the TV On

• Connect the power cord to the 220 V - 240 V AC 50 Hz.

• Switch the "⬛" button on the left side pannel to position "|" so the TV will switch to standby mode.

• To switch on the TV from standby mode either:

• Press the "⏻/|" button, P̂ / P̌ or a numeric button on the remote control.

• Press the ᴾ/ᶜᴴ or P̂/CH button on the TV.

By either method the TV will switch on and the Power LED lights up.

Note: If you switch on your TV via PROGRAMME UP/DOWN buttons on the remote control or on the TV set, the programme that you were watching last will be reselected.

To Switch the TV Off

• Switch the "⬛" button to position 2 as illustrated,
① ②

(⬛) so the TV will switch **OFF**.

• **To power down the TV completely, unplug the power cord from the mains socket.**

Note: When the TV is switched to standby mode, Power LED can blink to indicate that Over Air Download is active.

Using the Cable Holder
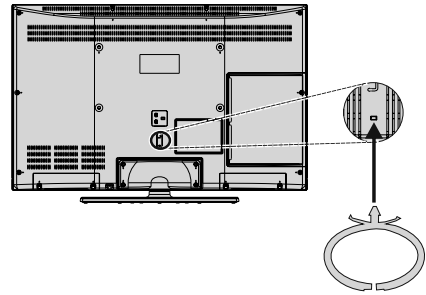
You can use the supplied cable holder as follows.

• Place the cable holder into the cable holder hole located on the rear side of the TV as illustrated above.

• Place cables into the cable holder after all necessary connections are made.

LCD TV and Operating Buttons

FRONT and REAR VIEW	FRONT VIEW	Control Buttons
Power LED		① Standby button ② TV/AV button ③ Programme Up/Down buttons ④ Volume Up/Down buttons **Note:** *Press* ▬◀ *and* ◀▬ **+** *buttons at the same time to view main menu.*
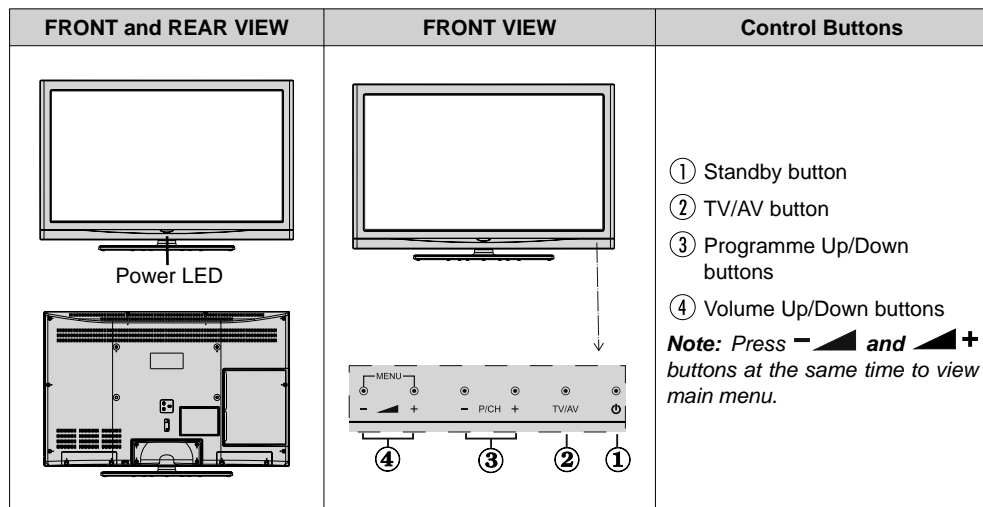
Viewing the Connections- Back Connectors
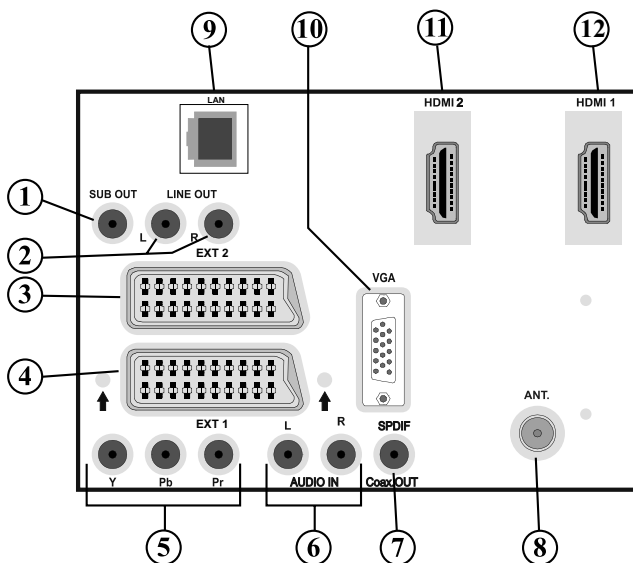
① **Subwoofer Out** is for connecting an external, active subwoofer to the set to give a much deeper bass effect.

Use an appropriate RCA cable to connect the set to a subwoofer unit.

② **Audio Line Outs** output audio signals to an external device such as an optional sound system.
To connect the external speakers to your TV, use **AUDIO LINE OUTS** of the TV with an audio cable.

③ **EXT 2** inputs or outputs for external devices.

English - 9 -

④ **EXT 1** inputs or outputs for external devices.
Connect the **SCART** cable between **EXT (SCART)** sockets on TV and **EXT (SCART)** socket on your external device (such as a decoder, a VCR or a DVD player).
*Note: If an external device is connected via the **EXT (SCART)** sockets, the TV will automatically switch to AV mode. If both sockets are employed at the same time, **EXT 1** will override **EXT 2** unless manually selected.*
Note: You should connect the decoder to EXT-1, if you are planning to watch a scrambled channel. The decoder might not function properly if you do not connect the decoder to the EXT 1 socket.

⑤ **Component Video Inputs (YPbPr)** are used for connecting component video.
You can connect the component video and audio sockets with a device that has component output.
Connect the component video cables between the **COMPONENT VIDEO INPUTS** on on the TV and the component video outputs of your device. While connecting, be sure that the letters on your TV, "**Y**", "**Pb**", "**Pr**" correspond with your device's connectors.

⑥ **PC/YPbPr Audio Inputs** are used for connecting audio signals of a PC or a device that connects to the TV via YPbPr.
Connect the PC audio cable between the **AUDIO INPUTS** on the TV and audio output of your PC to enable PC audio.
Connect the audio cable between **AUDIO INPUTS** on the TV and audio outputs of your device to enable component audio.

⑦ **S/PDIF Coaxial Out** outputs digital audio signals of the currently watched source.
Use an **SPDIF coaxial cable** to transfer audio signals to an amplifier with a digital sound input.

⑧ **RF Input** connects to an antenna or a cable system..
Note that if you use a decoder or a media recorder, you should connect the aerial cable through the device to the television with an appropriate antenna cable, as shown in the illustration in the following pages.

⑨ Ethernet (LAN) Input is used for MHEG return channel (future service, currently under development by broadcaster).

⑩ **PC Input** is for connecting a personal computer to the TV set.
Connect the PC cable between the **PC INPUT** on the TV and the PC output on your PC.

⑪ **HDMI 2: HDMI Input**

⑫ **HDMI 1: HDMI Input**
HDMI Inputs are for connecting a device that has an **HDMI** socket. Your LCD Television is capable of displaying High Definition pictures from devices such as a High Definition Satellite Receiver or DVD Player. These devices must be connected via the HDMI sockets or Component Socket. No sound connection is needed for an HDMI to HDMI connection.

When you use the wall mount kit (optional) with the LCD TV, we would definitely recommend to plug all your cables into the back of the LCD before mounting to the wall.

For forther information on mounting the TV on a VESA mount, see page 35.

Viewing the Connections - Side Connectors

① CI Slot is used for inserting a CI card. A CI card allows you to view all the channels that you subscribe to. For more information, see "Common Interface" section.

② **Important Notice:** Side USB Input 1 is for service use only. Note that this USB connector does not have any other functions such as playing audio or picture files.

③ Side USB input 2 is available in TV mode. You can use the Media Browser screen to browse a connected USB device.

④ **HDMI-3**: HDMI Input.

⑤ Headphone jack is used for connecting an external headphone to the system. Connect to the **HEADPHONE** jack to listen to the TV from headphones (optional).

⑥ Video Input (SIDE AV) is used for connecting video signals of external devices. Connect the video cable between the **VIDEO IN** socket on the TV and the **VIDEO OUT** jack on your device.

⑦ Audio Inputs (SIDE AV) are used for connecting audio signals of external devices. Connect the audio cable between the **AUDIO INPUTS** on the TV and the **AUDIO OUTPUT** jacks on your device. Note: If you connect a device to the TV via the **VIDEO INPUT**, you should also connect your device with an audio cable to the **AUDIO INPUTS** of the TV to enable audio.

INPUT AV

⑧ **S-Video** Input is used for connecting an **S-VIDEO** signal (e.g. from a camcorder or VCR). For using S-VIDEO input; connect the video cable between the S-VIDEO input on the TV and the S-VIDEO output on your device. Connect the audio cable between the **AUDIO INPUTS** (indicated with number **7** in the illustration) on the TV and the audio jacks on your device.

⑨ Standby switch is used for turning the TV on or off.
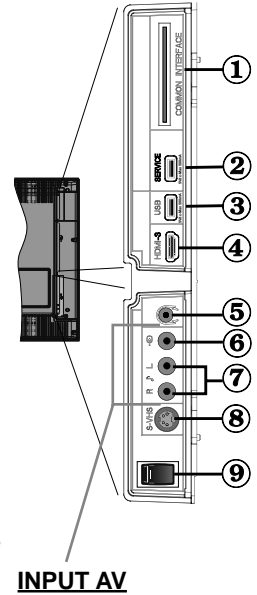
Using USB Input

• You can connect USB devices to your TV by using the USB input of the TV. This feature allows you to display/play JPG and MP3 files stored in a USB stick.

• It is possible that certain types of USB devices (e.g. MP3 Players) may not be compatible with this TV.

• You may back up your files before making any connections to the TV set in order to avoid any possible data loss. Note that manufacturer will not be responsible for any file damage or data loss.

• Do not pull out USB module while playing a file.

• The TV supports only FAT32 disk formatting. NTFS format is not supported. If you connect a USB disk with NTFS format, **"usb is unformatted"** will be displayed on the screen.

CAUTION: Quickly plugging and unplugging USB devices, is a very hazardous operation. Do not repeatedly plug and unplug the drive. This may cause physical damage to the USB interface or the USB device itself.

<div align="center">SIDE VIEW   USB MEMORY</div>
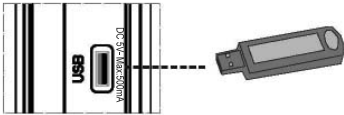
USB Memory Connection

• Plug your USB device to the USB input of the TV.

• If the USB device is not recognised, remove and re-insert it

• It is recommended that you connect your USB device directly to the **Side USB input 2** of the TV. Side USB input 1 is for service use only.

Connecting the LCD TV to a PC

You can connect your PC to the TV and use it as a computer monitor.

1. Set the video resolution of your PC to 1280 x 960 on its orginal monitor.

2. Make the connections between your PC and the TV monitor, switch on the monitor before booting the PC.

3. You can now set your preferred resolution from the choice supported. (For supported PC resolutions, see page 31).
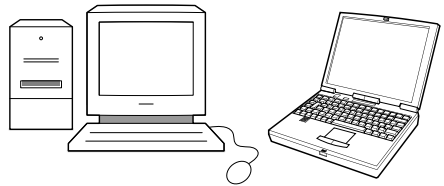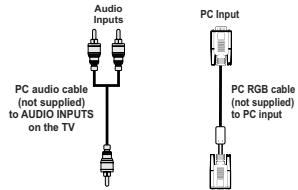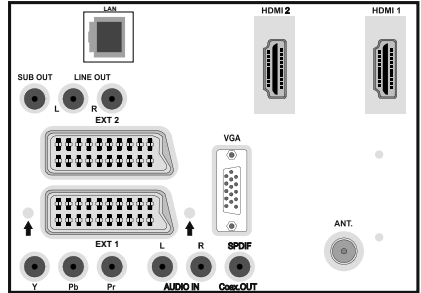
Connecting to a DVD Player

If you want to connect a DVD player to your LCD TV, you can use connectors of the TV set. DVD players may have different connectors. Please refer to your DVD player's instruction book for additional information. Power off both the TV and the DVD before making any connections.

Note: Cables shown in the illustration are not supplied.

• If your DVD player has an HDMI socket, you can connect via HDMI. When you connect to DVD player as illustrated below, switch to HDMI source. See, "Input Selection" section.

• Most DVD players are connected through COMPONENT SOCKETS. Use a component video cable to connect video input. For enabling audio, use a component audio cable as illustrated below. When the connection is made, switch to **YPbPr** source. See, "Input selection" section.

• You may also connect through the EXT 1 or EXT 2. Use a SCART cable as shown below.

Note: *These three methods of connection perform the same function but in different levels of quality. It is not necessary to connect by all three methods.*

Scart sockets

Component video inputs

Component audio inputs

HDMI inputs

DVD Player
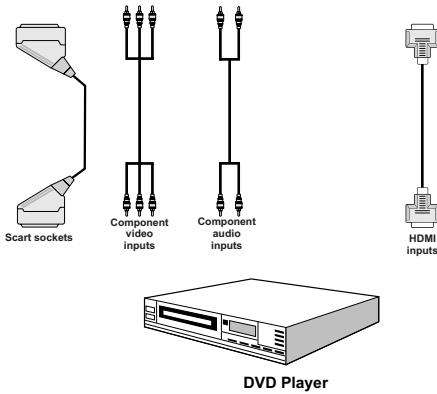
Using Side AV Connectors

You can connect a range of optional equipment to your LCD TV. Possible connections are shown below. Note that cables shown in the illustration are not supplied.

• For connecting a camcorder, connect to the S-VIDEO or VIDEO IN socket and the AUDIO SOCKETS. Do not connect the camcoder to S-VIDEO and VIDEO IN socket at the same time since it can cause noise in the picture. For selecting the related source, see the section "Input selection" in the following parts.

• To listen to the TV sound from headphones, connect to the HEADPHONE jack of the TV.

Headphone

Camcorder
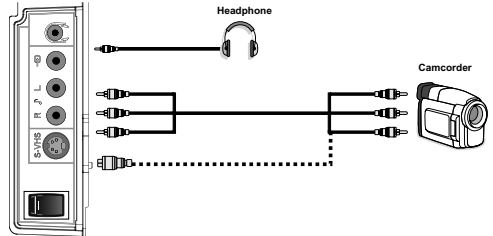
Connecting Other Equipment via Scart

Most devices support EXT (SCART) connection. You can connect a; DVD recorder, a VCR or a decoder to your LCD TV by using the EXT (SCART) sockets. Note that cables shown in the illustration are not supplied.

Power off both the TV and the devices before making any connections.

For more information, refer to your device's own instruction book.

Scart sockets

DVD Recorder

Video Recorder

Decoder
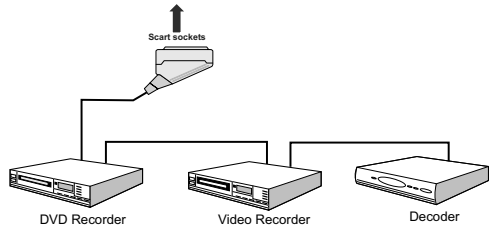
Input Selection

Once you have connected external systems to your TV, you can switch to different input sources.

• Press "**AV**" button on your remote control for directly changing sources.

or,

• Select "**Source**" option from the main menu by using "◀" or "▶" button. Use then "▼" or "▲" button to highlight an input and press "▶" button to select.

Note: You can mark desired source options by pressing the OK button. Therefore, when "AV" button is pressed, only the marked source options will be available (except for the TV source).

Basic Operations

You can operate your TV using both the remote control and onset buttons.

Operation with the Buttons of the TV

Volume Setting

• Press "— ◢" button to decrease volume or ◢ **+** button to increase volume, so a volume level scale (slider) will be displayed on the screen.

Programme Selection

• Press "P̂/CH" button to select the next programme or "P/CȞ" button to select the previous programme.

Viewing Main Menu

• Press "— ◢" / "◢ **+**" buttons at the same time to view main menu. In the Main menu select sub-menu using "P/CȞ" or "P̂/CH" buttons and enter the sub-menu using the **TV/AV** button, the "— ◢" / "◢ **+**" buttons are used to select sub menu's displayed across the top of the menu box.

The "P/CȞ" or "P̂/CH" buttons are used to select items in the current menu list and the "— ◢" / "◢ **+**" are used to alter the settings.

Press **MENU** on the remote or "— ◢" / "◢ **+**" together to exit the menu system.

AV Mode

• Press the "**TV/AV**" button in the control panel on the TV to switch between AV modes.

Operation with the Remote Control

• The remote control of your TV is designed to control all the functions of the model you selected. The functions will be described in accordance with the menu system of your TV.

• Functions of the menu system are described in the following sections.

Volume Setting

• Press " ◢ **+**" button to increase the volume. Press "— ◢" button to decrease the volume. A volume level scale (slider) will be displayed on the screen.

Programme Selection (Previous or Next Programme)

• Press "P̌" button to select the previous programme.

• Press " P̂ " button to select the next programme.

Programme Selection (Direct Access)

• Press numeric buttons on the remote control to select programmes between 0 and 9. The TV will switch to the selected programme. To select programmes between 10 - 1000 (for IDTV) or 10-199 (for analogue), press the numeric buttons consecutively. Press directly the programme number to reselect single digit programmes.

Initial Settings

When the TV is turned on for the first time, it is in the digital mode. Because this is the first time the TV is used, there are no channels stored in the memory and the following message appears on the screen.
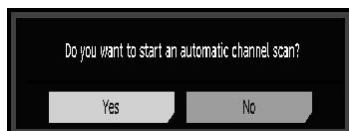
• To select the "Yes" or "No" option, highlight the item by using "◀" or "▶" buttons and press **OK** button.

The IDTV will automatically tune to the transmission channels, searching for digital terrestrial TV broadcasts and displaying the names of channels found. This process will take a few minutes. To cancel searching, you can press **MENU** button at any time during the process. The following OSD will be displayed during the automatic search:
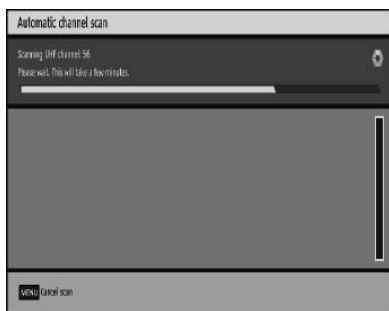
End of the search process, "**Choose Region**" OSD will be displayed on the screen. Please select country and region choice by using navigation buttons and then press **OK** to continue.
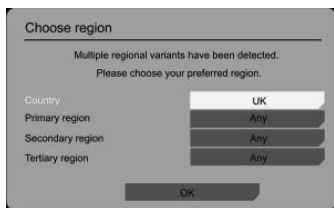
After Automatic Search is completed, the following message, asking for analogue channel search, appears on the screen.
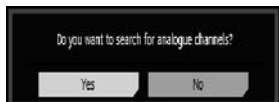
To search for analogue channels, select "Yes". TV switches to the analogue TV mode. A menu will be displayed to search for analogue channels.

Set **Language** item by pressing "◀" or "▶" button. Press "▼" or "▲" button to highlight **Country** item and then use "◀" or "▶" to set. Press "▼" or "▲" button to highlight **TXT. Language**. Set TXT Language by using "◀" or "▶" button. To cancel, press the **BLUE** button. When finished, press **OK** or **RED** button to continue and the following OSD will be displayed:
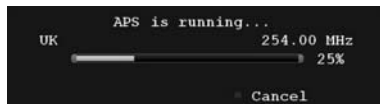
After **automatic tuning** is finalized, a programme list will appear on the screen. In the programme list you will see the programme numbers and names assigned to the programmes.

If you do not accept the locations and/or the names of the programmes, you can change them in Program table. For details, see the section, "Program table".

If the table is acceptable, Press **MENU** twice to revert to the picture.

General Operation

Press the **AV** button and select DTV from the list. The TV then switches to digital TV mode.

Information Screen

• Whenever you change the channel using the $\hat{P}$ / $\overset{P}{\vee}$ button or numeric buttons, the TV displays the broadcast picture along with an information banner at the bottom of the screen. This will remain on the screen for a few seconds.

• The information banner can also be displayed by pressing the ⓘ button at any time while watching the TV. Pressing ⓘ again will show more details on the current programme, press the "▶" button to give details of the next programme. Press ⓘ or "◀" to remove the banner.

When info banner is on screen, you can use Up or Down cursor buttons to browse channels.

If the selected channel is locked, you must enter the correct four digit key to view the channel. In this case, a dialog box asking for the lock key will be displayed:

English - 15 -
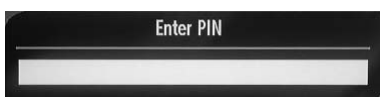
Electronic Programme Guide (EPG)

Some, but not all, channels send information about the current and next events. Please note that event information is updated automatically. If there are no event information data available for channels,EPG will be displayed with blanks.

• Press **GUIDE** button to view the **EPG** menu.
• Press "▼" or "▲" buttons to navigate through channels.
• Press "◄" or "►" buttons to navigate through the programme list.

RED button (Prev. Day): displays the programmes of previous day.

GREEN button (Next day): displays the programmes of the next day.

YELLOW button (Zoom): Expands programme information.

BLUE button: displays filtering options.

ⓘ **(Details):** displays the programmes in detail.

OK (View): shows the highlighted channel / views options.

Numeric buttons (Jump): go to preferred channel directly via numeric buttons.

◯I/II Scrolls page left.

⌣ Scrolls page right.

⊕: Jumps to the current programme.

0 (SEARCH): activates "Guide Search" window.

☰**:** Displays genre selecting options.

Press **"0"** button to view Guide Search menu. Using this feature, you can search the programme guide database in accordance with the genre selected or with name match.

In the guide search menu, use the "▼" / "▲" buttons to highlight the required option and adjust it using the "◄" / "►" buttons.

If "Search by genre" is selected; choose the required genre by highlighting the "Match on" option, press OK then highlight the required genre and press OK to confirm

Highlight "Start Search" and press OK to search.

Programme Options

In EPG menu, press the **OK** button to enter the "Programme Options" menu.

Using this option, you can switch to the selected channel or exit.

Displaying Subtitles

With digital terrestrial broadcasting (DVB-T), some programmes are broadcast with subtitles.

Note: Enable or disable subtitles by pressing the ⌣ button.

Digital Teletext

• Press the TELETEXT (☰) button.
• The digital teletext information appears.
• Operate it with the coloured buttons, "▼" / "▲" / "◄" or "►"buttons, numeric buttons and OK button.

The operation method may differ depending on the contents of the digital teletext.

Follow the instructions displayed on digital teletext screen.

• When "Press **"SELECT"** button or similar message appears on the screen, press the **OK** button.
• When the TELETEXT (☰) button is pressed, the TV returns to television broadcasting.
• With digital terrestrial broadcasting (DVB-T), in addition to digital teletext broadcasting together with the normal broadcasting, there are also channels with just digital teletext broadcasting.
• The aspect ratio (picture shape) when watching a channel with just digital teletext broadcasting is the same as the aspect ratio of the picture viewed previously.
• When you press the TELETEXT (☰) button again, the digital teletext screen will be displayed.

Analogue Teletext

Digital teletext is self explanatory with instructions for use on the text pages themselves.

Analogue teletext explanations are on Page 29.

Widescreen

Depending on the type of the broadcast being transmitted, programmes can be viewed in a number of formats. Press the **ZOOM** button repeatedly to change screen format.

When Auto is selected, the format being displayed is determined by the picture being broadcast.

DTV Auto 16:9

ATV Auto 16:9, 4:3, Panoramic, 14:9, Cinema, Subtitle and Zoom.

IDTV Menu System

• Press **MENU** button and DTV main menu will be displayed.

Channel List

Using "▼" or "▲" buttons on the remote control in main menu, make sure that the first item, Channel List, is highlighted and press the **OK** button to display the Channel List. Or you press the OK button during watching DVB-T broadcasting and get to the Channel List directly.

• Channel List is the place where the channels are managed.

Navigating the Entire Channel List

• Press "▼" or "▲" keys for selecting the previous or next channel.
• Press "P/CH ∨" or "P/CH ∧" buttons to move page up or page down.
• To watch a specific channel, highlight it using "▼" or "▲" buttons and then press **OK** button.

Moving the channels in the channel list

• Press "▼" or "▲" buttons to select the channel that will be moved.
• Press "◀" or "▶" buttons to select the **''Move''** item on Channel List menu and press **OK** to confirm.

If the new channel location already exists, the following massage appears on the screen.
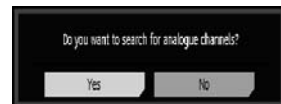
Highlight the required option using the "◀" or "▶" buttons and press OK to confirm.

Deleting the Channels in the Channel List

• Press "▼" or "▲" buttons to select the channel that will be deleted.
• Press "◀" or "▶" buttons to select the **"Delete"** item on Channel List menu.
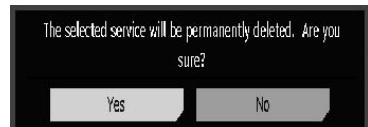
Note: You can tag/untag a selected channel by using YELLOW button. Use GREEN button to Tag/Untag all channels.

Press **"OK'** button to delete the highlighted channel in the channel list. Then the message below appears on the screen.

Renaming channels

To rename a specific channel, the channel must be highlighted via pressing "▼" or "▲" buttons and then highlight the **"Edit Name"** item by pressing "◄" or "►" buttons. Press **"OK"** button to activate rename feature.

Use the "◄" or "►" buttons to move to the next character. Pressing "▼" or "▲" buttons changes the current character, i.e., **'b'** character becomes **'a'**. Also, Pressing the numeric buttons **'0...9'** replaces the highlighted character with the characters printed above the key in sequence as the button is repeatedly pressed.

Press the **MENU** button to cancel the editing or **OK** button to save the new name.

Adding Locks to Channels

Channel Locking provides a password-protected access to channels selected by parents.

In order to lock a channel you should know the **Parental Lock** password (default value is set to 0000 in the factory and can only be changed from the **Configuration menu**).

By pressing "▼" or "▲" buttons, highlight the channel to be locked and select the **"Lock"** option by pressing "◄" or "►" buttons. Then press the **OK** button and a password box is displayed:

The Yellow and Green buttons can be used to tag / untag channels.
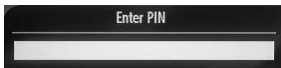
Setting Favourites

To set a favourite you should highlight the **"Favourites"** item in the Channel List menu. Then press **OK** button and **Edit Favourite List** menu appears on the screen.

Note: You can tag/untag a selected channel by using YELLOW button. Use GREEN button to Tag/Untag all channels.

Adding a Channel to a Favourites List

By pressing "▼" or "▲" buttons, highlight the channel that you want to add to the favourite list. By pressing **OK** button, the highlighted channel is added to Favourite List. **F** icon indicates that a channel is added to Favourite List.

Removing a Channel from a Favourite List

• Highlight the channel that you want to remove from the favourite list and press **OK** button to remove. You can press **OK** button again to replace a channel.

• To activate Favourites, go to the Configuration menu and select Favourite mode. Use "◄" or "►" to set Favourite mode as on. To cancel Favourites, set Favourite Mode to Off.

When favourites are activated, use the "ᴾ/ᶜᴴ∨" or "∧ᴾ/ᶜᴴ" buttons to move through the programmed channels.

NOTE:

In favourite mode, the TV / Audio button does not function but all the channels can be accessed directly using the numeric buttons.

Common Interface

Press **MENU** button to display the main menu and use the "▼" or "▲" buttons to highlight the "**Common Interface**" item and press **OK** button.

It is required to subscribe to a pay channel company to view the pay channels of the Digital Terrestrial broadcasting.

Obtain the Conditional Access Module (CAM) and the viewing card by subscribing to a pay channel company, then insert those to the Television using the following procedure.

• Switch off the TV and unplug from the mains.

• Insert the CAM, and then the viewing card to the slot. The label should face away from the screen.

- The CAM should be correctly inserted, it is impossible to insert fully if reversed. The CAM or the TV terminal may be damaged if the CAM is forcefully inserted.
- Connect the TV to the mains supply, switch on and then wait for few moments until the card is activated.
- Some CAMs may require the following set up. Please set the CAM by entering the DIGITAL TV menu, Common Interface then pressing OK button. (CAM set up menu is not displayed when it is not required.)
- To see the viewing contract information:
- Enter DIGITAL TV; press **MENU** button, then highlight Condational Access and press **OK** button.
- When no module is inserted, "**No Common Interface module detected**" message appears on the screen.
- Refer to the module instruction manual for details of the settings.

*NOTE: Insert or remove the CI module only when the TV is in **STANDBY** mode or **SWITCHED OFF**.*

TV Setup

You can use this item to display the TV functions.

The digital TV Setup menu screen is accessed from the main menu. Press the **MENU** button to display the main menu and use "▼" or "▲" buttons to highlight "**TV Setup**". Press **OK** button to display TV Setup menu screen.

You can find detailed information for all menu items in "**Analogue TV Menu System**" section.

Setup

The adjustments in this menu are given as the following:
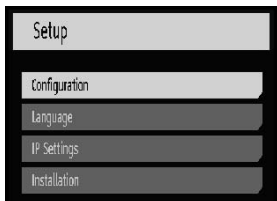
Configuration

You can configure the settings of your TV. Select **Configuration** from Setup menu and press **OK** to view this menu. Press the **BACK** button on the remote control to exit.

Active Channels

You can select broadcasts to be listed in the channel list. To display specific types of broadcast, you should use active channel list setting. Highlight Active channel list by using "▼" or "▲" buttons. Use "◄" or "►" buttons to select the required setting.

Scan Encrypted

Scan Encrypted Channel feature will always be **YES** after performing first time installation. When this setting is on, search process will locate the encrypted channels as well. If it is set as **NO** manually, encrypted channels will not be located while in automatic search or manual search. Use "▼" or "▲" button to select Scan Encrypted and then press "◄" or "►" button to set this setting as Yes or No.

Output Settings

You can use this option to configure output settings.
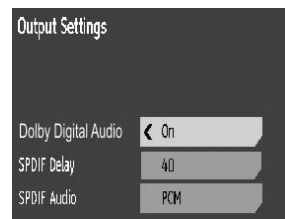
Dolby Digital Audio

Highlight Dolby Digital Audio item by pressing "▼" or "▲" buttons. Use the "◄" or "►" buttons to set the Dolby Digital Audio to On or Off.

If the channel that you are watching supports AC3 Audio, turn this setting on.

SPDIF Delay

You can use this setting when there is an synchronization problem in the received broadcast. Press "◄" or "►" button to change the delay or use numeric buttons to enter SPDIF Audio delay manually. When finished, press **GREEN** button to apply.

SPDIF Audio

Use this setting to define digital audio out signal type. Use "◄" or "►" buttons to set **SPDIF Audio** as **Bitstream** or **PCM**. If your selected channel includes

Compressed sound **Bitstream**, you should connect your TV to external equipment by using spdif out of your TV for enabling the sound output. If you have no external sound equipment, please select Digital Audio Out as "PCM" by using "◀" or "▶" button.

Receiver Upgrade

Over Air Download (OAD)

To ensure that your TV always has the most up to date information, use this setting. Please ensure that the TV is set to standby mode. The TV automatically powers up at 3.00 A.M. each day and searches for any new information which may be broadcast and will download this to your receiver automatically. This operation will normally take approximately 30 minutes. If you have an important recording to be carried out at 3.00 A.M. and you do not want to interrupt it, disable auto OAD search by performing the following:

• Press **MENU** button and using the "▼" or "▲" buttons to choose **Setup** and press **OK** button.

• Highlight Configuration menu with "▼" or "▲" keys and press **OK**. Highlight receiver upgrade and press OK.

• Using the "◀" or "▶" button change "**Automatic scanning**" from Enabled to Disabled.

To manually scan for new software;

• Highlight "**Scan for upgrade**" menu with "▼" or "▲"keys and pres **OK** to commence upgrade.
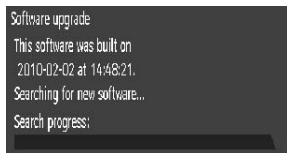
• After the search progress is completed, the message " Completed searching for upgrade. No new software was found" appears on the screen if no new software is found.

Parental Control

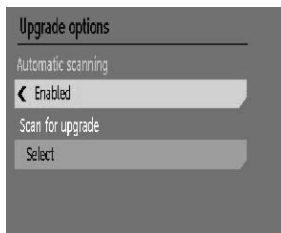• Some channels broadcast material which you may not want younger members of the family to watch. Any channel can be 'locked' so that it cannot be selected for viewing unless a four-digit PIN code is entered. In this way any channel not suitable for younger viewers can be prohibited.

• This function enables or disables the menu protection system and allows the PIN code to be changed.

• Use "▼" or "▲" buttons to highlight Parental Control. Press **OK** button to enter Parental Control menu. A dialog box asking for the lock key is displayed:
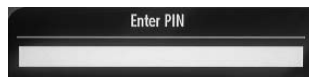
There is only one key which is set to "**0000**" initially. Enter lock key. If wrong lock key is entered, the "**WRONG PIN**" message will be displayed on the screen and the TV returns to the previous menu. If the PIN is correct, the Parental Control menu including following items will be displayed:
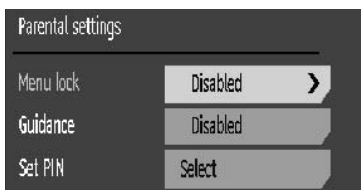
Menu Lock

Use "◀" or "▶" buttons to set Menu Lock. Here, you can set/reset locking function for the main menu or the installation menu to restrict access. If the menu lock is disabled, there will be free access to the menu system.

Disabled: All menus are unlocked.

All Menus: All menus are accessible only with the correct lock key. So the user cannot add, delete, rename or move the channels.

Installation Menu: Installation menu is locked, so the user cannot add channels. Changes will be updated after exiting Configuration Menu.

Guidance

When set, this option gets the maturity information from the broadcast and if this maturity level is disabled, the TV will not display the related video-audio.

Set PIN

Use "▼" or "▲" buttons to go to "Set PIN" option. Press **OK** to display the "Set PIN" window. Use numeric buttons to enter new pin number you will need to input your new pin a second time for verification purposes. The factory default pin number is 0000, if you change the pin number make sure you write it down and keep it safe.

Audio Description (Optional)

Audio description refers to an additional narration track for blind and visually impaired viewers of visual media. You can use this feature, only if the broadcaster supports that additional narration track. Select Audio Description and press **OK** button to view contents.
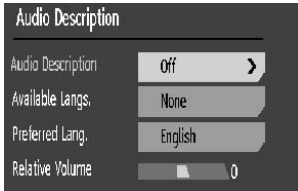
Use "▼" or "▲" buttons to select an item. Then use "◀" or "▶" buttons to set.

Audio Description

This function enables or disables the audio description feature by pressing the "◀" or "▶"buttons.

Available Langs.

This feature displays available languages. If more than one language is available, you can select between available languages by using "◀" or "▶" button.

Preferred Language

By pressing the "◀" or "▶"buttons the preferred audio description language is being changed. This setting can be used, only if it is available.

Relative Volume

Using this option, the Audio Description volume level can be increased or decrased relatively, according to the general volume.

Language Settings

In this menu the user can adjust the preferred language. Select "Language" item in the Setup menu and press OK button. Then language settings menu will be displayed.

You can set the desired language options by using "▼" / "▲" and "◀"/"▶" buttons.

IP Settings

You can configure your TV's IP settings by using this menu screen. Press **YELLOW** button to set static IP settings. Use **BLUE** button to configure dynamic IP settings. You can press **RED** button to disable IP configuration.

• In order for the Ethernet host to work correctly with your Internet connection it needs to have a unique IP address. In most cases all of the parameters can be provided by the DHCP server in your router. In this case you should use the "Dynamic" option.

• In the unlikely event that you dou not have a DHCP server in your router or if you prefer to assign your own IP address, then the "Static" option can be used. You will need to enter a unique IP address along with the default gateway and DNS server. In most domestic networks the default gateway and DNS server will both be the IP address of the router.

Installation

The Installation menu is mainly intended to help you create a Channel Table in most efficient way. Select Installation from the setup menu by pressing "▼" or "▲" buttons.
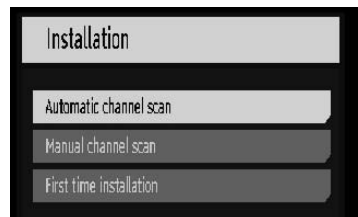
Automatic Channel Scan

Automatic channel scan is started by pressing **OK** button while Automatic channel scan item is highlighted.

The following message appears on the screen:

Highlight **Yes** or **No** by using "◀" or "▶" buttons and press **OK** button to confirm.

If **Yes** is selected, automatic search starts.

Selecting **No** cancels automatic search.

After search is complete, you may see a "Choose region" box on-screen. Press "◀" or "▶" buttons to change region and press OK to confirm.
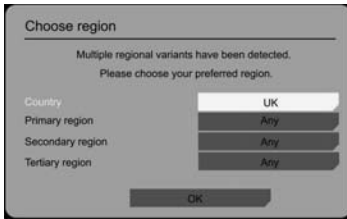
Manual Search

In Manual Search, the number of the multiplex is entered manually and only that multiplex is searched for the channels. For every valid channel number, signal level and signal quality are shown on the screen.

In both manual and auto search any existing channel in the database is not re-stored to avoid redundant duplicates of that channel.

First Time Installation

The user can use this item to load default settings, which were loaded to the receiver at the factory.

To install factory settings, highlight "**First Time Installation**" menu item and press **OK** button, then you will be asked whether or not to delete the settings. Selecting "**Yes**" by pressing **OK** button while the "**Yes**" is highlighted, will delete the existing channel table.

After deleting the channel table a message asking to start an automatic DIGITAL channel scan appears

Select YES and follow the on screen prompts as described in initial settings on page 14.

Analogue TV Menu System

Picture Menu

Mode

For your viewing requirements, you can set the related mode option.

Press "▼" or "▲" button to select **Mode**. Press "◀" or "▶" button to choose from one of these options: **Natural, Cinema** and **Dynamic.**.

Contrast/Brightness/Sharpness/Colour/ Hue

Press "▼" or "▲" button to select the desired option. Press "◀" or "▶" button to set the level.

Note: Hue option can only be visible when the TV receives an NTSC signal.

Colour Temp

Press "▼" or "▲" button to select **Colour Temp**. Press "◀" or "▶" to choose from one of these options: Normal, Warm and Cool..

Note*:*

*• For normal colours, select **Normal** option.*

*• Setting **Warm** option gives white colours a slight red stress.*

*• Setting **Cool** option gives white colours a slight blue stress.*

Noise Reduction

If the broadcast signal is weak and the picture is noisy, use **Noise Reduction** setting to reduce the noise amount.

Press "▼" or "▲" button to select **Noise Reduction.** Press "◄" or "►" to choose from one of these options: **Low**, **Medium**, **High** or **Off**.

Film Mode

Films are recorded at a different number of frames per second to normal television programmes.

Press "▼" or "▲" button to select **Film Mode**.

Press "◄" or "►" button to set this feature On or Off.

Turn this feature on when you are watching.

films to see the fast motion scenes clearly.

Game Mode (optional)

Select **Game Mode** by pressing "▼" or "▲" button. Use "◄" or "►" button to set Game Mode as **On** or **Off**. When Game Mode is set to On, specific game mode settings, which are optimized for better video quality, will be loaded.

Also; Picture Mode, Contrast, Brightness, Sharpness, Colour and Colour Temp settings will be invisible and disabled while Game Mode is on.

Picture Zoom

Select **Picture Zoom** by pressing "▼" or "▲" button.

Use "◄" or "►" buttons, to change picture zoom to **Auto**, **16:9**, **4:3**, **Panoramic**, **14:9**, **Cinema**, **Subtitle** or **Zoom**.

Note : Picture mode settings can be set 16:9 or 4:3 only while in Digital Tv mode.

Reset

Press "▼" or "▲" button to select **Reset**. Press "◄" or "►" or **OK** button to reset the picture modes to factory default settings.

Sound Menu

Volume

Press "▼" or "▲" button to select **Volume**. Press "◄" or "►" button to change the level of the Volume.

Equaliser

Press "▼" or "▲" button to select **Equaliser**. Press "►" button to view equaliser menu.
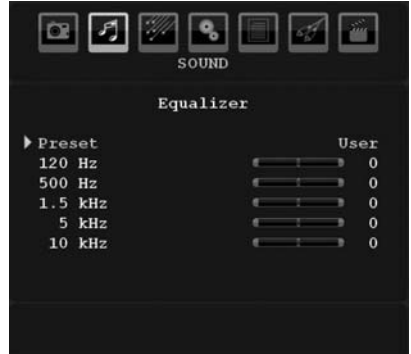
Press "◄" or "►" button to change the preset. In equalizer menu, the preset can be changed to **Flat, Classic, User, Music, Movie** and **Speech.**

Select the desired frequency by pressing "▼" or "▲" button and increase or decrease the frequency gain by pressing "◄" or "►" button.

Press the "**MENU**" button to return to the previous menu.

Note: Equaliser menu settings can be changed only when the Equaliser Mode is in User.

Balance

This setting is used for emphasising left or right speaker balance.

Press "▼" or "▲" button to select **Balance**. Press "◄" or "►" button to change the level of the balance. Balance level can be adjusted between **-32** and **+ 32**.

Headphone

Press "▼" or "▲" button to select **Headphone**. Press "►" button to view the headphone menu.

Headphone sub-menu options are described below:

Volume

Press "▼" or "▲" button to select **Volume**. Press "►" button to increase headphone volume level. Press "◄" button to decrease headphone volume level. Headphone volume level can be adjusted between 0 and 63.

Sound Mode

Press "▼" or "▲" button to select **Sound Mode**. Using "◄" or "►" button, you can select Mono, Stereo, Dual I or Dual II mode, only if the selected channel supports that mode.

AVL

Automatic Volume Limiting (AVL) function adjusts the sound to obtain fixed output level between programmes (For instance, volume level of advertisements tend to be louder than programmes).

Press "▼" or "▲" button to select **AVL**. Press "◀" or "▶" button to set the AVL as **On** or **Off**.

Spdif Out

This sound output source is intended for use with a separate digital surround sound amplifier.

Press "▼" or "▲"" button to select Spdif Out . Press "◀" or "▶" button to set the Spdif Out as On or Off .

Note: If SPDIF is set to ON, there will be no sound output to the headphones.

Effect

If you are watching a mono broadcast, set Effect on to obtain a better sound effect which will be more stereo-like. If the current sound system is stereo, switching this effect on will give a more spatial effect.

Press "▼" or "▲" button to select Effect. Press "◀" or "▶" button to set as On or Off .

Feature Menu

Sleep Timer

Press "▼" or "▲" button to select **Sleep Timer**. Use "◀" or "▶" button to set the **Sleep Timer**.

The timer can be programmed between Off and 2 hours (120 minutes) in steps of 10 minutes.

If **Sleep Timer** is activated, at the end of the selected time, the TV goes automatically to standby mode.

Child Lock

Press "▼" or "▲" button to select **Child Lock**.

Use "◀" or "▶" button to set the Child Lock **On** or **Off**. When On is selected, the TV can only be controlled by the remote control. In this case the control panel buttons will not work, except for the Standby/On button. When Child Lock is activated you are able to switch the TV into Standby mode with the Standby/On button. To switch the TV on again, you need the remote control. In this case if a button is pressed, Child Lock Is On will be displayed on the screen when the menu screen is not visible.

Language

Press "▼" or "▲" button to select **Language**. Use "◀" or "▶" button to select the **Language**.

Default Zoom

While zoom mode is set as AUTO, the TV will set the zoom mode in accordance with the signal of the broadcast. If there is no WSS or aspect ratio information, the TV will then use this setting. Press "▼" or "▲" button to select **Default Zoom**. You can set **Default Zoom** to **16:9, 4:3, Panoramic** or

14:9 by pressing "◀" or "▶" button.

Note : Default Zoom feature will not be available while in Digital Tv mode.

Blue Background

If the signal is weak or absent, the TV will automatically change to a blue screen. To enable this, set **Blue Background** to **On**.

By pressing "▼" or "▲" button, select **Blue Background**. Press "◀" or "▶" button to set **Blue Background** as **On** or **Off**.

Menu Background

Press "▼" or "▲" button to select **Menu Background**. You can set menu background level by pressing "◀" or "▶" button.

Power Save Mode

Use "▼" or "▲" button to select Power Save Mode.

Press "◀" or "▶" button to set Power Save Mode as On or Off.

See the section, "Environmental Information" in this manual for further information on Power Save Mode.

Note : Backlight function will be invisible if Power Save Mode is set to on.

Backlight

This setting controls the backlight level. Select **Backlight** by pressing "▼" or "▲" button. Press"◀" or "▶" button to set **Backlight** to **Auto, Medium**, **Maximum** or **Minimum**.

Menu Timeout

To set a specific display timeout for menu screens, set a value for this option.

Press "▼" or "▲" button to select **Menu Timeout**. Use "◄" or "►" button to change menu timeout to **15 sec**, **30 sec** or **60 sec**.

TXT (Teletext) Language

Press "▼" or "▲" button to select **Teletext Language**. Use "◄" or "►" button to change **Teletext Language** to **West, East, Cyrillic, Turk/Gre, Arabic** or **Persian.**

Full Mode (*only for FHD models)

If you connect a device via HDMI or YPbPr connectors and set 1080i/1080P resolutions, Full Mode item will be visible.You can set Full Mode as 1:1 or Normal by using "◄" or "►".If you select 1:1, screen ratio will be adjusted correctly. If you set Normal, screen ratio may expand.

Ext Out

Press "▼" or "▲" button to select Ext Out. Use "◄" or "►" button to set the Ext Out as On or Off.

Note:

To record TV on an external video recorder set Ext. Out to 'On' to enable video output from scart connector. If Ext. Out is set to 'Off', only audio is output.

Auto TV Off

Press the "▼" or "▲" buttons to select "Auto TV Off".

Use the "◄" or "►" buttons to set the Auto TV Off time to 1H, 2H, 3H, 4H, 5H, 6H or OFF.

If no button is pressed on the remote or TV, the TV will switch to standby after the set time has elapsed.

Install Menu

Program

Press "▼" or "▲" button to select Program. Use "◄" or "►" button to select the program number. You can also enter a number using the numeric buttons on the

remote control. There are 200 programme storage locations 0 to 199.

Band

Band can be selected either C or S. Press "◄" or "►" button to set Band.

Channel

Channel can be changed by "◄" or "►" button or use the numeric buttons to input channel numbers directly.

Colour System

Press "▼" or "▲" button to select Colour System. Use "◄" or "►" button to change the colour system to **AUTO, PAL** or **PAL60.**

Sound System

Press "▼" or "▲" button to select Sound System. Press "◄" or "►" button to change the sound system to BG,DK, I, L or L'.

Fine Tune

Press "▼" or "▲" button to select Fine Tune. Press "◄" or "►" button to adjust the tuning.

Search

Press "▼" or "▲" button to select Search. Use "◄" or "►" button to start programme searching. You can also enter the desired frequency using the numeric buttons while Search item is highlighted.

Store

To store settings, press OK in any sub menu or select Store and press "◄" or "►" or OK.

Install Menu in AV Modes

The following screen appears in the install menu when the TV is in AV modes. Note that limited options will be available. Switch to TV mode for viewing complete version of the **Install** menu.
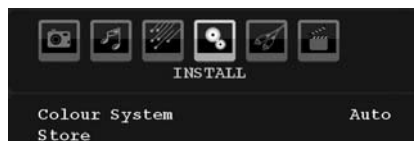
Colour System

Press "▼" or "▲" button to select **Colour System**. Use "◄" or "►" button to change the colour system to **AUTO, PAL, PAL60, NTSC 4,43** or **NTSC 3,58.**

Store

Store the settings.

Program Table

Select **Program Table** by pressing "◀" or "▶" button.

By moving the cursor in four directions you can reach 20 programmes in the same page. You can scroll the pages up or down by pressing the navigation buttons to see all the programmes in TV mode (except for the AV modes). By cursor action, programme selection is done automatically.

Name

To change the name of a programme, select the programme and press the **RED** button.

The first letter of the selected name will be highlighted. Press "▼" or "▲" button to change that letter and "◀" or "▶" button to select the other letters. By pressing the **RED** button, you can store the name.

Move

Select the programme which you want to insert by navigation buttons. Press the **GREEN** button. By navigation buttons move the selected programme to the decided programme space and press the **GREEN** button again.

Delete

To delete a programme, press the **YELLOW** button. Pressing the **YELLOW** button again erases the selected programme from the programme list, and the following programmes shift one line up.

APS (Auto Programming System)

When you press the **BLUE** button for starting automatic tuning, **Auto Programming System** menu will appear on the screen:

Press "◀" or "▶" button to select your country. If you want to exit from A.P.S. function, press the **BLUE** button. When you press **OK** or **RED** button for starting automatic tuning, all stored programmes will be erased and the TV will search for available channels. During the search, the following OSD will be displayed:
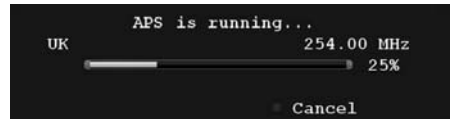
Whenever you press the **BLUE** button, APS function stops and Program Table appears on the screen.

If you wait until the end of APS, Program Table will be displayed with the programmes found and located.

Source Menu

Press "◀" or "▶" button and select the source icon. Then press "▼" or **OK** button. Source menu appears on the screen:

In source menu, highlight a source by pressing "▼" or "▲" button and switch to the selected source by pressing "▶" button. Source options are; **TV**, **DTV**, **EXT-1**, **EXT-2**, **SIDE AV**, **S-VIDEO, HDMI-1**, **HDMI-2**, **HDMI-3**, **YPbPr** or **PC-VGA**.

With the OK button you can set or remove a mark. When a mark is removed; this source does not appear in the OSD when you press the AV button of the remote control.

Note: *Once you have connected optional equipment systems to your TV, you should select the required input to view pictures from that source.*

Media Browser Menu

If you plug a valid USB flash drive to the TV set, the following menu will be displayed on the screen if the plugged USB unit is compatible with this TV set. Contents of this screen will change in accordance with the files stored on your USB drive.

• You can display pictures (.jpg files) or play music (.mp3 files) through the Media Browser. See Appendix C.

Note:

• *If you enter the Media Browser menu without plugging a USB device to the TV, "No USB Device" message will be displayed on the menu screen.*

Note: *Unknown file formats will be marked with a question mark.*

You can use the following remote control buttons to browse between files stored on your USB drive:

Up / Down	Explores the files.
OK	Views / plays a selection / enter folder.
Menu	Back.
Red	Filters JPG files.
GREEN	Filters MP3 files.
"▼" / "▲"	Select next or previous file.

Playing .mp3 Files

If you play an mp3 file, the following screen can be displayed during the playback by pressing the **MENU** or **BACK** button once or twice in the USB menu.

You can use cursor buttons on the remote control for available functions.

Playing .jpg Files

If you play a jpg file, the following screen will be displayed while viewing:

You can use cursor buttons on the remote control for available functions.

PC Mode Menu System

See "**Connecting the LCD TV to a PC**" section for connecting a PC to the TV set.

For switching to **PC** source, press "**AV**" button on your remote control and select PC input. You can also use "**Source**" menu to switch to **PC** mode.

Note that PC mode menu settings are available only while the TV is in PC source.

PC Position Menu

Select the first icon by pressing "◀" or "▶" button. **PC Position** menu appears on the screen:
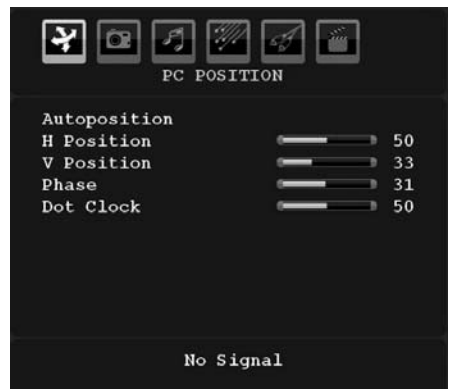
Autoposition

If you shift the picture horizontally or vertically to an unwanted position, use this item to put the picture into correct place automatically. This setting therefore automatically optimizes the display.

Select Autoposition item by using "▼" or "▲" buttons. Press **OK** or "◄", "►" button.

Warning: Please ensure auto adjustment is performed with a full screen image to ensure best results.

H (Horizontal) Position

This item shifts the image horizontally to right hand side or left hand side of the screen.

Select **H Position** item by using "▼" or "▲" button. Use "◄" or "►" button to adjust the value.

V (Vertical) Position

This item shifts the image vertically towards the top or bottom of the screen.

Select **V Position** item by using "▼" or "▲" button. Use "◄" or "►" button to adjust the value.

Phase

Depending on the resolution and scan frequency that you input to the TV set, you may see a hazy or noisy picture on the screen. In such a case you can use this item to get a clear picture by trial and error method.

Select **Phase** item by using "▼" or "▲" buttons. Use "◄" or "►" button to adjust the value.

Dot Clock

Dot Clock adjustments correct the interference that appear as vertical banding in dot intensive presentations like spreadsheets or paragraphs or text in smaller fonts.

Select **Dot Clock** item by using "▼" or "▲" buttons. Use "◄" or "►" button to adjust the value.

PC Picture Menu

For adjusting PC picture items, do the following: Press "◄" or "►" button to select the second icon. PC Picture menu appears on the screen.

Contrast, Brightness, Colour and Colour Temperature settings in this menu are identical to settings defined in TV picture menu under "Analogue TV Menu System".

Note: If you set Colour Temp as User, you can define R, G, B settings manually.

Sound,Feature and Source settings are identical to thesettings explained in Analog Tv menu system.

Displaying TV Information

Programme Number, **Programme Name**, **Sound Indicator** and **Zoom Mode** information is displayed on the screen when a new programme is entered or ⓘ button is pressed in ATV mode.

For DTV, see the section information screen on page 15.

Mute Function

Press "🔇" button to disable sound. Mute indicator will be displayed in the upper side of the screen.

To cancel mute, there are two alternatives; the first one is pressing the "🔇" button and the second one is increasing the volume level.

Freezing Picture

You can freeze the picture on the screen by pressing the "**OK**" button on the remote control in TV mode. Press the "**OK**" button to freeze picture. Press again to quit freeze mode (available only in analogue TV mode).

Zoom Modes

You can change the aspect ratio (image size) of the TV for viewing the picture in different zoom modes.

Press "**ZOOM**" button to directly change the zoom mode.

Available zoom modes are listed below.

Note:

In YPbPr and HDMI modes, while in 720p-1080i resolutions, only 16:9 mode is available.

In PC mode, only 16:9 mode is available.

Auto

When a **WSS (Wide Screen Signalling)** signal, which shows the aspect ratio of the picture, is included in the broadcast signal or the signal from an external device, the TV automatically changes the **ZOOM** mode according to the **WSS** signal.

• When the **AUTO** mode does not function correctly due to poor **WSS** signal quality or when you want to change the **ZOOM** mode, change to another **ZOOM** mode manually.

16:9

This uniformly stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the wide TV screen.

• For 16:9 aspect ratio pictures that have been squeezed into a normal picture (4:3 aspect ratio),

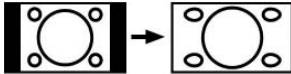use the **16:9** mode to restore the picture to its original shape.

4:3

Use to view a normal picture (4:3 aspect ratio) as this is its original size.
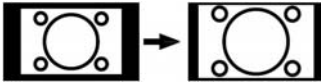

Panoramic

This stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the screen, without making the screen.

The top and bottom of the picture are slightly cut off.

14:9

This zooms up the wide picture (14:9 aspect ratio) to the upper and lower limits of the screen.

Cinema

This zooms up the wide picture (16:9 aspect ratio) to the full screen.

Subtitle

This zooms up the wide picture (16:9 aspect ratio) with subtitles to the full screen.

Zoom

This option zooms to the picture.

Note: You can shift the screen up or down by pressing "▼" / "▲" buttons while picture zoom is selected as Panaromic, 14:9, Cinema, Subtitle or Zoom

Teletext

Teletext system transmits information such as news, sports and weather on your TV. Note that if the signal degrades, for example in poor/adverse weather conditions, some text errors may occur or the teletext mode may be aborted.

Teletext function buttons are listed below:

"▤" Teletext On-Off / PAT Mode

Activates teletext mode when pressed once. Pressing this button again will split the screen into two windows, one displaying the teletext and the other displaying the current channel. Pressing again will quit the teletext mode.

"▤i" Index

Selects the teletext index page.

"⊜" Expand

Press once to enlarge top half of the page, press again to enlarge the bottom half of the page. Press again to revert back to normal size.

"⑦" Reveal

Shows hidden information (e.g. solutions of games).

"▤" Hold

Holds a text page when convenient. Press again to resume.

"⊙" Subcode Pages / Time

Selects subcode pages if available when the teletext is activated. When the teletext is not activated, displays time info if the programme has teletext transmission.

⌃P / ⌄P and numbers (0-9)

Press to select a page.

Note: Most TV stations use code 100 for their index pages.

Coloured Buttons

(RED/GREEN/YELLOW/BLUE)

Your TV supports both **FASTEXT** and **TOP text** systems. When these systems are available, the pages are divided into groups or topics.

When **FASTEXT** system is available, sections in a teletext page will become colour-coded and can be selected by pressing the coloured buttons. Press a coloured button that corresponds to with your needs.

The coloured writings will appear, showing you which coloured buttons to use when **TOP text** transmission is present. Pressing ⌃P or ⌄P commands will request the next or previous page respectively.

Teletext Subtitle (in analogue TV mode only)

If you press ⌐·· button, teletext subtitle information will be displayed on the bottom right of the screen (if available).

Tips

Screen Care

Clean the screen with a slightly damp, soft cloth. Do not use abrasive solvents as they may damage the coating layer of the TV screen.

For your safety, unplug the mains plug when cleaning the set. When moving the TV, hold it properly from the bottom part.

Image Persistence

Please note that ghosting may occur while displaying a persistent image. LCD TVs' image persistence may disappear after a short time. Try turning off the TV for a while.

To avoid this, do not leave the screen in still picture for extended periods.

No Power

If your TV system has no power, please check the main power cable and connection to the mains socket outlet.

Poor Picture

Have you selected the correct TV system? Is your TV set or house aerial located too close to a non-earthed audio equipment or neon lights, etc.?

Mountains or high buildings can cause double pictures or ghost images. Sometimes you can improve the picture quality by changing the direction of the aerial.

Is the picture or teletext unrecognisable? Check if you have entered the correct frequency. Please retune the channels.

The picture quality may degrade when two peripherals are connected to the TV at the same time. In such a case, disconnect one of the peripherals.

No Picture

Is the aerial connected properly? Are the plugs connected tightly to the aerial socket? Is the aerial cable damaged? Are suitable plugs used to connect the aerial? If you are in doubt, consult your dealer.

No Picture means that your TV is not receiving a transmission. Have you selected the correct button on the remote control? Try once more.

Also make sure the correct input source has been selected.

Sound

You can not hear any sound. Did you perhaps interrupt the sound, pressing the ⊠ button?

Sound is coming from only one of the speakers. Is the balance set to one extreme? See **Sound Menu**.

Remote Control

Your TV no longer responds to the remote control. Perhaps the batteries are exhausted. If so you can still use the local buttons of the TV.

Input Sources

If you cannot select an input source, it is possible that no device is connected.

Check the AV cables and connections if you have tried to connect a device.

Appendix A: PC Input Typical Display Modes

The display has a maximum resolution of 1920 x 1200. The following table is an illustration of some of the typical video display modes.

Your TV may not support different resolutions. Supported resolution modes are listed below.

If you switch your PC to an unsupported mode, a warning OSD will appear on the screen.

Index	Resolution		Frequency		Standard	Supported Zoom Modes
	Hor	Ver	Ver (Hz)	Hor (KHz)		
1	640	350	85	37.9	VESA	16:9, 4:3
2	640	400	85	37.9	VESA	16:9, 4:3
3	640	400	70	31.5	IBM VGA	16:9, 4:3
4	640	480	60	31.5	VESA	16:9, 4:3
5	640	480	66	35.0	MAC	16:9, 4:3
6	640	480	72	37.9	VESA	16:9, 4:3
7	640	480	75	37.5	VESA	16:9, 4:3
8	640	480	85	43.3	VESA	16:9, 4:3
9	800	600	56	35.2	VESA	16:9, 4:3
10	800	600	60	37.9	VESA	16:9, 4:3
11	800	600	70	43.8		16:9, 4:3
12	800	600	72	48.1	VESA	16:9, 4:3
13	800	600	75	46.9	VESA	16:9, 4:3
14	800	600	85	53.7	VESA	16:9, 4:3
15	832	624	75	49.7	MAC	16:9, 4:3
16	1024	768	43	35.5	VESA (interlace)	16:9, 4:3
17	1024	768	60	48.4	VESA	16:9, 4:3
18	1024	768	70	56.5	VESA	16:9, 4:3
19	1024	768	72	57.7		16:9, 4:3
20	1024	768	75	60.0		16:9, 4:3
21	1024	768	85	68.3		16:9, 4:3
22	1152	864	60	53.8		16:9, 4:3
23	1152	864	70	64.2	VESA	16:9, 4:3
24	1152	864	75	67.5	VESA	16:9, 4:3
25	1152	864	85	77.1	VESA	16:9, 4:3
26	1152	870	75	68.9	MAC	16:9, 4:3
27	1280	768	60	47.7	VESA	16:9, 4:3
28	1360	768	60	47.7		16:9, 4:3
29	1280	768	75	60.2	VESA	16:9, 4:3
30	1280	960	60	60.0	VESA	16:9, 4:3
31	1280	960	75	75.0	VESA	16:9, 4:3
32	1280	960	85	85.9	VESA	16:9, 4:3
33	1280	1024	60	64.0	VESA	16:9
34	1280	1024	75	80.0	VESA	16:9
35	1280	1024	85	91.1	VESA	16:9
36	1400	1050	60	65.3		16:9
37	1400	1050	75	82.3		16:9
38	1440	900	60	55.9		16:9
39	1440	900	75	70.6		16:9
40	1600	1200	60	75.0	VESA	16:9
41	1680	1050	60	65.3		16:9
42	1920	1200	60	74.5		16:9

Appendix B: AV and HDMI Signal Compatibility (Input Signal Types)

Source	Supported Signals		Available
EXT 1	PAL 50/60		O
	NTSC 60		O
	RGB 50		O
	RGB 60		O
EXT 2	PAL 50/60		O
	NTSC 60		O
	RGB 50		X
	RGB 60		X
SIDE AV	PAL 50/60		O
	NTSC 60		O
S-VIDEO	PAL 50/60		O
	NTSC 60		O
YPbPr	480I	60Hz	O
	480P	60Hz	O
	576I	50Hz	O
	576P	50Hz	O
	720P	50Hz	O
	720P	60Hz	O
	1080I	50Hz	O
	1080I	60Hz	O
	1080P	50Hz	O
	1080P	60Hz	O
HDMI1 HDMI2 HDMI3	480I	60Hz	O
	480P	60Hz	O
	576I	50Hz	O
	576P	50Hz	O
	720P	50Hz	O
	720P	60Hz	O
	1080I	50Hz	O
	1080I	60Hz	O
	1080P	50Hz	O
	1080P	60Hz	O
	1080P	24 HZ	O

(X: Not Available, O: Available)

Note: In some cases a signal on the LCD TV may not be displayed properly. The problem may be an inconsistency with standards from the source equipment (DVD, Set-top box, etc.). If you do experience such a problem please contact your dealer and also the manufacturer of the source equipment.

Appendix C: Supported File Formats for USB Mode

Media	File Extension	Format		Remarks
		Video	Audio	(Maximum resolution/Bit rate etc.)
Music	.mp3	--	MPEG 1/2 Layer 1/ 2/ 3 (MP3)	Sample Rate: 8kHz ~ 48kHz, Bit Rate: 32kbps~320kbps
Photo	.jpg	Baseline JPEG		MAX. Width 7680 Height 4320, 16 Mega-pixel Support format: 444/ 422/ 420

Appendix D: Supported DVI Resolutions

When connecting devices to your TV's connectors by using DVI converter cables (not supplied), you can refer to the following resolution information.

	24Hz	25Hz	30Hz	50Hz	60Hz
480i					☑
480p					☑
576i				☑	
576p				☑	
720p				☑	☑
1080i				☑	☑
1080p	☑	☑	☑	☑	☑

Specifications

TV BROADCASTING

PAL/SECAM B/G D/K K' I/I' L/L'

RECEIVING CHANNELS

VHF (BAND I/III)

UHF (BAND U)

HYPERBAND

NUMBER OF PRESET CHANNELS (analogue)

200

NUMBER OF PRESET CHANNELS (digital)

1000

CHANNEL INDICATOR

On Screen Display

RF AERIAL INPUT

75 Ohm (unbalanced)

OPERATING VOLTAGE

220 V - 240 V AC, 50 Hz.

AUDIO

German + Nicam Stereo

AUDIO OUTPUT POWER

($W_{RMS.}$) (10% THD)

2 x 8

POWER CONSUMPTION

190 W (max)

< 1 W (Standby)

PANEL

40" Wide Screen

DIMENSIONS (mm)

WxHxD (With stand): 970 x 653 x 219

Weight (kg): 15.10

WxHxD (Without stand): 970 x 613 x 99

Weight (kg): 14.40

Digital Reception (DVB-T)

Transmission Standards:

MPEG2, MPEG4 HD DVB-T

i. DEMODULATION

-Symbol rate: COFDM with 2K/8K FFT mode.

-Modulation: 16-QAM - 64-QAM FEC for all DVB modes (automatically found)

ii. VIDEO

-H.264 (MPEG-4 part 10) main and high profile level 4.1/MPEG-2 MP@HL video decoder.

-HD display multi format capable (1080i)

-CVBS analogue output.

iii. AUDIO

-MPEG-1 layer I/II, MPEG-2 layer II, AAC, HEAAC, AC3

-Sampling frequencies supported are 32 kHz, 44.1 kHz and 48 kHz

Digital Reception (DVB-T2)

Demodulation

- QPSK, 16QAM, 64QAM, 256QAM with 1k, 2k, 4k, 8k, 16k, 32k FFT mode

Frequency Band

- UHF/ VHF

Channel BW

- 8 MHz /7MHz

Profiles

- MPEG-4 H.264/AVC HP@L 4.0, MP@L 4.0 (HD)

- H.264/AVC MP@L 3 .2, HP@L 3 .2 (SD)

- MPEG-2 MP@HL, MP@ML (SD)

INSTALLING USING A WALL MOUNTING

INSTALLING / REMOVING THE STAND

WARNING: The LCD display is very fragile, and must be protected at all times when installing / removing the stand. Be sure that no hard or sharp object, or anything that could scratch or damage the LCD display, comes into contact with it. Do NOT put pressure on the front of the unit at any time because the screen could crack.

1. Disconnect any cables or cords connected to the unit.
2. Lay the unit down on a flat surface, so the back is facing up, making sure to place a soft cushioned material (such as a pillow or thick piece of foam) beneath the screen.
3. Install / remove the four screws and then install / remove the STAND to / from the TV as shown below in pictures A and B.
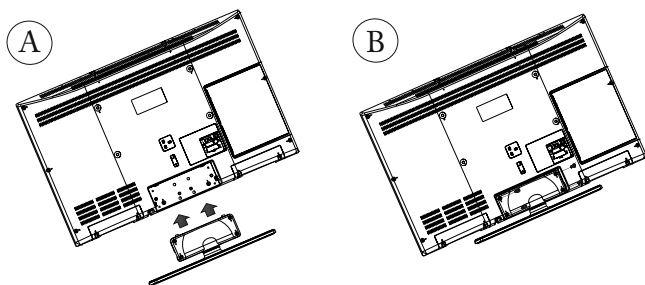
MOUNTING ON THE WALL

This unit is VESA-compliant, and is designed to be wall-mounted with a VESAcompliant 400mm x 200mm mounting kit designed for flat-panel TVs (sold separately). Mount this unit according to the directions included with the mounting kit.

Note:

Remove the stand before mounting the unit on the wall.
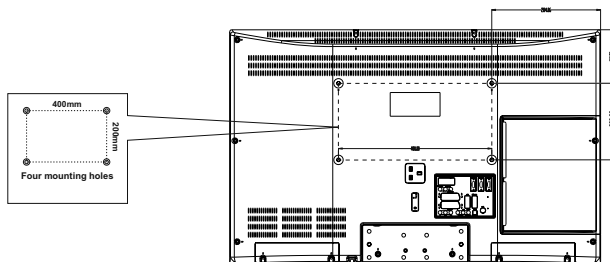
IMPORTANT

Screws must not project more than 8mm into the TV or damage may occur. FOR secure fixing make sure at least 4mm of the screw thread is engaged and the total thread lenght is less than 14mm.

Troubleshooting and Help Line

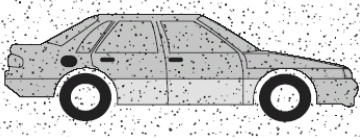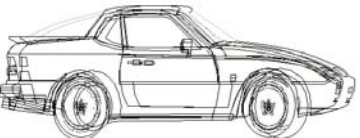| Sound		
Symptoms	**Possible causes**	**What to do**
No sound	The volume is set to min. "URF KI'ku'Qp The mute is switched on.	Turn the volume up. "Vwtp URF KI'Qh0 Press the mute button to release 'mute'.
Crackling noises or distorted sound.	Interference from cars, fluorescent lights, video recorder, a radio broadcast, personal computer or other equipment.	Turn off one piece of equipment at a time to see if the interference clears. See also what to do for picture interference.
Stereo switching to mono.	A weak signal or a mono broadcast.	Check the signal and your aerial system.
No stereo sound from equipment connected to the scart (AV) socket.	A mono scart lead is being used to connect the television. The signal being viewed is connected through the aerial socket.	Check that the scart lead is stereo. Check the video recorder is connected to the television through an AV (scart) lead, then switch the television to AV mode.

Picture		
Symptoms	**Possible causes**	**What to do**
Grainy (snowy) picture	Your video recorder could be faulty. Transmitter trouble. The outside aerial has moved, or is damaged or has been disconnected.	If you have a video recorder try plugging the aerial directly into the television. If the fault clears, the video recorder is probably faulty. Have your aerial system checked.
Extra outlines on objects in the picture (ghosts).	The aerial is receiving reflected signals from hills or buildings. Faulty aerial system	Try to tune in a better signal from the same television station. Get your aerial system checked.
Picture interference like spots or streaks.	Weak aerial signal. Interference from electrical equipment such as power tools and motors. Settings for the digital video equipment output do not match the monitor's VGA or DVI input specifications.	Try to tune in a better signal from the same television station. Get your aerial system checked. Move the interfering equipment further away or if possible, turn it off. Change the refresh rate or resolution settings on the digital equipment, if possible.
Picture is the wrong size or the source device (computer, DVD player, set top box and so on) will not let you set up the pixel resolution the display can reproduce.	Source device has not read the set-up data from the display. Connecting cable does not have all the necessary connections.	Avoid old cables and adapter devices. Use only modern cables. Re-start the source device after connecting and powering up the display. Change the graphics adapter in your computer. Check compatible video resolutions given in these instructions.
Picture looks squashed or stretched even though the aspect ratio controls are set correctly (for example 4:3 or 16:9).	Equipment feeding the display is set to the wrong aspect ratio.	On the equipment feeding the TV choose the correct output aspect ratio such as 4:3 or 16:9 to match the TV. On digital equipment you might choose 1280 x 960 pixels to match 4:3 screens or 1280 x 768 pixels to match 15:9 screens.

Picture interference like wavy lines or patterns. Sound or colour interference may also be present.	Some other equipment is using the same frequency.	Put other equipment on stand-by to see if the interference stops: change the output frequency of the equipment that is causing interference (see its instructions).
	Poor quality cable in the path between the TV and the TV aerial.	Get higher quality cable.
	Your aerial system is receiving an unwanted signal on the same frequency.	Get your aerial system checked.
No picture.	Brightness and contrast levels are set to minimum.	Increase the brightness and contrast settings.
Jumbled teletext characters	Poor quality signal	As for 'Snowy picture' and 'Ghosts'
When RGB input is used there is a distorted picture or no picture.	Synchronisation signal is missing.	Press the AV button to select the AV input which receives the synchronisation signal.

Power		
Symptoms	**Possible causes**	**What to do**
Television seems 'dead' - no lights come on and nothing works.	Mains supply missing. Main power switch is off. Blown fuse or circuit breaker.	Make sure it is not a general power cut. Check the power switches on the television and at the power outlet. Check the fuse or circuit breaker at your main fuse box. Look for a possible cause of failure before you replace or re-set it.
The stand-by light is on but the buttons don't seem to work.	Try the front panel STANDBY/ON button: if TV comes on then check "The remote does not function".	Disconnect power supply, wait five minutes and try front panel STANDBY/ON. If still no good, disconnect power supply and assume the unit is faulty.
Local function buttons do not work. Stuck on stand-by.	Micro-controller confused by electrical disturbance.	Switch off mains power and wait 10 minutes before trying again. (Leave the TV unplugged and call a service engineer if this does not work.)

Remote		
Wrong functions or short range.	Batteries run down.	Insert new batteries
	Ostacle in the way.	Remove any objects and aim from straight in front of the remote sensor with a clear line of sight.

Computer Monitor TV and HDMI

Sound		
Symptoms	Possible causes	Possible solutions
No sound	HDMI input is being fed through a conversion connector from equipment with a DVI output.	Connect sound output from the DVI equipment to an external amplifier.

Picture		
Symptoms	Possible causes	Possible solutions
No picture. On-screen message indicates video input is not compatible.	Settings for the digital video equipment feeding the TV do not match the TV input requirements.	Change the refresh rate or resolution settings of the computer graphics adaptor or other digital equipment.
Computer feeding the TV does not offer you suitable settings to match the TV requirements.	Computer has not exchanged information with the television. In older computers, the graphics adaptor might be obsolete.	Re-start the computer while the television is still connected to the power supply, then try again. In exceptional cases, you may need to go into the computer graphics adaptor settings and clear the check box for Show only settings this monitor can support. For Microsoft Windows this can be found by right-clicking on the Desktop and following Properties - Display Properties - Settings - dvanced tab Monitor tab. The availability of this function and the method of adjustment varies with computer operating system. Upgrade your graphics adaptor.
Picture is not clear. Picture is in the wrong position.	Television needs to be set up for the computer analogue RGB input (also known as VGA - or - sub). Some input resolutions produce a clearer picture than others.	For computer analogue RGB input (also known as VGA-or D-sub-, activate the automatic set-up function. The phase, frequency, vertical and horizontal position controls might also need slight adjustment. Check information in the computer monitor section of these instructions and try a different resolution setting.
Picture looks squashed or stretched.	the wrong aspect ratio. Equipment feeding the TV is set to	For a TV with a computer monitor function fed from the computer analogue RGB connector (also known as VGA?or D-sub?, set up the computer graphics adaptor resolution to have the same aspect ratio as the TV screen. (Aspect ratio means the ratio of width to height, which in this case is measured in pixels.)

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