

# JVC

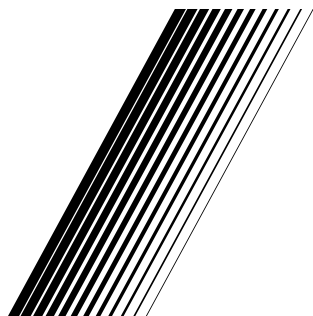
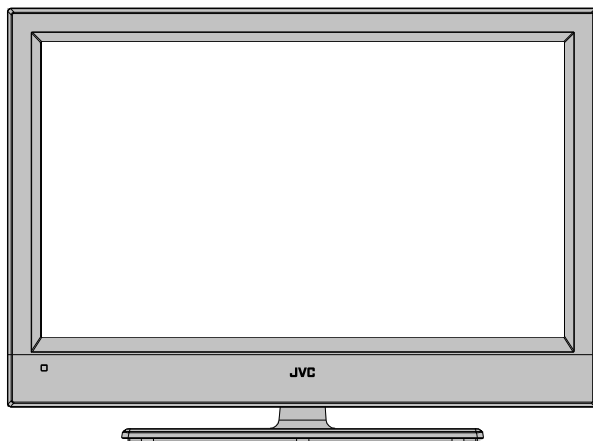


## LT-26HA20U

ENGLISH

LCD TV

INSTRUCTIONS



0311TMH-VT-VT

## 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



### **Products**



### **Battery**

#### **Notice:**

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

## **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.

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.

### **[Other Countries outside the European Union]**

These symbols are only valid in the European Union.

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**



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DVB is a registered trademark of the DVB Project

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### **TRADEMARK ACKNOWLEDGMENT**

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# Contents

|   |    |  |    |
|---|----|--|----|
| Logo & License .....                            | 1  | Managing Stations: Channel List .....            | 14 |
| Features .....                                  | 3  | Operating the Channel List .....                 | 15 |
| Introduction .....                              | 3  | Moving a Channel .....                           | 15 |
| Package Contents .....                          | 3  | Deleting a Channel .....                         | 15 |
| Preparation .....                               | 4  | Renaming a Channel .....                         | 15 |
| Safety Precautions .....                        | 4  | Locking a Channel .....                          | 15 |
| Waste Disposal .....                            | 4  | Managing Stations: Favourites .....              | 15 |
| LCD Screen .....                                | 5  | Button Functions .....                           | 15 |
| Warning .....                                   | 5  | Managing Stations: Sorting Channel List .....    | 16 |
| Connection to a Television Distribution         |    | On-Screen Information .....                      | 16 |
| System (Cable TV etc.) from Tuner .....         | 5  | Changing Image Size: Picture Formats .....       | 16 |
| Environmental Information .....                 | 5  | Configuring Picture Settings .....               | 17 |
| Overview of the Remote Control .....            | 6  | Operating Picture Settings Menu Items .....      | 17 |
| Inserting Batteries in the Remote Control ..... | 7  | Picture Settings Menu Items .....                | 17 |
| Operating Range for the Remote Control .....    | 7  | PC Picture Settings .....                        | 17 |
| Switching the TV On/Off .....                   | 7  | Configuring Sound Settings .....                 | 18 |
| To Switch the TV On .....                       | 7  | Operating Sound Settings Menu Items .....        | 18 |
| To Switch the TV Off .....                      | 7  | Sound Settings Menu Items .....                  | 18 |
| Using the Cable Holder .....                    | 7  | Configuring Your TV's Settings .....             | 18 |
| LCD TV and Operating Buttons .....              | 8  | Operating Settings Menu Items .....              | 18 |
| Viewing the Back side Connections .....         | 8  | Settings Menu Items .....                        | 18 |
| Viewing the Connections - Side Connectors ..... | 9  | Using a Conditional Access Module .....          | 19 |
| Power Connection .....                          | 9  | Viewing Conditional Access Menu (*) .....        | 19 |
| Aerial Connection .....                         | 9  | Configuring Language Preferences .....           | 19 |
| Side HDMI Connection .....                      | 10 | Parental Control .....                           | 20 |
| Connecting the LCD TV to a PC .....             | 10 | Parental Settings Menu Operation (*) .....       | 20 |
| Connecting to a DVD Player .....                | 10 | Timers .....                                     | 20 |
| Using Side AV Connectors .....                  | 11 | Setting Sleep Timer .....                        | 20 |
| Using Other Connectors .....                    | 11 | Setting Programme Timers .....                   | 20 |
| Input Selection .....                           | 11 | Adding a Timer .....                             | 20 |
| Operation with the Buttons on the TV .....      | 11 | Editing a Timer .....                            | 20 |
| Volume Setting .....                            | 11 | Deleting a Timer .....                           | 21 |
| Programme Selection .....                       | 11 | Configuring Date/Time Settings .....             | 21 |
| Viewing Main Menu .....                         | 11 | Configuring Source Settings .....                | 21 |
| AV Mode .....                                   | 11 | Configuring Other Settings .....                 | 21 |
| Operation with the Remote Control .....         | 11 | Operation .....                                  | 21 |
| Volume Setting .....                            | 11 | Other Features .....                             | 22 |
| Programme Selection                             |    | Teletext .....                                   | 23 |
| (Previous or Next Programme) .....              | 11 | Tips .....                                       | 23 |
| Programme Selection (Direct Access) .....       | 11 | Appendix A: PC Input Typical Display Modes ..... | 24 |
| Digital Teletext (** for UK only) .....         | 11 | Appendix B: Supported DVI Resolutions .....      | 24 |
| Analogue Teletext .....                         | 12 | Appendix C: AV and HDMI Signal                   |    |
| Viewing Electronic Programme Guide (EPG) .....  | 12 | Compatibility (Input Signal Types) .....         | 24 |
| First Time Installation .....                   | 13 | Appendix D: Software Upgrade .....               | 25 |
| Auto Tuning .....                               | 13 | Specifications .....                             | 26 |
| Auto Channel Scan Menu Operation .....          | 14 | Digital Reception (DVB-T) .....                  | 26 |
| Manual Tuning .....                             | 14 |  |    |
| Digital Manual Search .....                     | 14 |  |    |
| Analogue Manual Search .....                    | 14 |  |    |
| Analog Fine Tune .....                          | 14 |  |    |

## Features

- Remote controlled colour LCD TV.
- Fully integrated Terrestrial digital TV (DVB-T - MPEG2) (DVB-T- MPEG4).
- HDMI connectors for digital video and audio. This connection is also designed to accept high definition signals.
- USB input. (Only service purpose)
- 1000 programmes (analogue+digital).
- OSD menu system.
- SCART socket 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.
- Sleep timer / Child lock.
- Automatic sound muting when no transmission.
- NTSC playback.
- AVL (Automatic Volume Limiting).
- Auto power down.
- PLL (Frequency Search).
- PC input.
- Plug&Play for Windows 98, ME, 2000, XP, Vista, Windows 7.
- Game Mode

## Introduction

Please read the corresponding instructions of this handbook prior to the first usage of the device, even when the usage of electronic devices is familiar to you. Notice especially the chapter SAFETY PRECAUTIONS. Carefully keep the handbook as future reference. When selling the device or giving it away, absolutely give these direction for use.


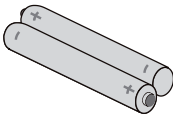

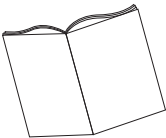

Thank you for choosing this product. This manual will guide you for the proper operation of your TV. Before operating the TV, please read this manual thoroughly. Please do keep this manual in a safe place for future references.

This device is intended to receive and display TV programs. The different connection options make an additional expansion of the reception and display sources possible (receiver, DVD player, DVD recorder,

VCR, PC etc.). This device is only suitable for the operation in dry interiors. This appliance is intended solely for private domestic use and may not be used

for industrial and commercial purposes. We exclude liability in principle, if the device is not used as intended, or unauthorized modifications have been made. To operate your LCD TV in extreme ambient conditions may cause the damage of the device.

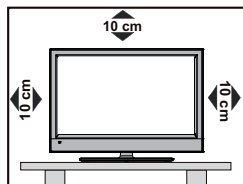
## Package Contents

|  |  |
|--|--|
|  <p>Remote Controller</p> |  <p>Batteries: 2 X AAA</p> |
|  |  <p>Instruction Book</p>   |
|  |  <p>Quick Guide</p>        |
|  |  <p>Cable Holder</p>      |

*Note: You should check the accessories after purchasing. Make sure that each accessory is included.*

## Preparation

For ventilation, leave a free space of at least 10 cm all around the set. To prevent any fault and unsafe situations, please do not place any objects on top of the set. Use this device in moderate climates.



## Safety Precautions

**Read the following recommended safety precautions carefully for your safety.**

### Power Source

The TV set should be operated only from a 220-240 V AC, 50 Hz outlet. Ensure that you select the correct voltage setting for your convenience.

### Power Cord

Do not place the set, a piece of furniture, etc. on the power cord (mains lead) or pinch the cord. Handle the power cord by the plug. Do not unplug the appliance by pulling from the power cord and never touch the power cord with wet hands as this could cause a short circuit or electric shock. Never make a knot in the cord or tie it with other cords. The power cords should be placed in such a way that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electric shock. When it is damaged and needs to be replaced, it should be done by qualified personnel.

### Moisture and Water

Do not use this device in a humid and damp place (avoid the bathroom, the sink in the kitchen, and near the washing machine). Do not expose this device to rain or water, as this may be dangerous and do not place objects filled with liquids, such as flower vases, on top. Avoid from dripping or splashing.

If any solid object or liquid falls into the cabinet, unplug the TV and have it checked by qualified personnel before operating it any further.

### Cleaning

Before cleaning, unplug the TV set from the wall outlet. Do not use liquid or aerosol cleaners. Use soft and dry cloth.



## Ventilation

The slots and openings on the TV set are intended for ventilation and to ensure reliable operation. To prevent overheating, these openings must not be blocked or covered in anyway.

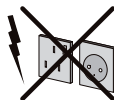
### Heat and Flames

The set should not be placed near to open flames and sources of intense heat such as an electric heater. Ensure that no open flame sources, such as lighted candles, are placed on top of the TV. Batteries should not be exposed to excessive heat such as sunshine, fire or the like.



### Lightning

In case of storm and lightning or when going on holiday, disconnect the power cord from the wall outlet.



### Replacement Parts

When replacement parts are required, make sure that the service technician has used replacement parts, which are specified by the manufacturer or have the same specifications as the original one. Unauthorized substitutions may result in fire, electrical shock or other hazards.

### Servicing

Please refer all servicing to qualified personnel. Do not remove the cover yourself as this may result in an electric shock.



### Waste Disposal

- Instructions for waste disposal:
- Packaging and packaging aids are recyclable and should principally be recycled. Packaging materials, such as foil bag, must be kept away from children.
- Batteries, including those which are heavy metal-free, should not be disposed of with household waste. Please dispose of used battery in an environment friendly manner. Find out about the legal regulations which apply in your area. Don't try to recharge batteries. Danger of explosion. Replace batteries only with the same or equivalent type.
- Cold cathode fluorescent lamp in LCD PANEL contains a small amount of mercury; please follow the local laws or regulations for disposal.

### Disconnecting the Device

The mains plug is used to disconnect TV set from the mains and therefore it must remain readily operable.

### Headphone Volume

Excessive sound pressure from earphones and headphones can cause hearing loss.



## Installation

To prevent injury, this device must be securely attached to the wall in accordance with the installation instructions when mounted to the wall (if the option is available).

## LCD Screen

The LCD panel is a very high technology product with about a million thin film transistors, giving you fine picture details. Occasionally, a few non-active pixels may appear on the screen as a fixed blue, green or red point. Please note that this does not affect the performance of your product.

## Warning

Do not leave your TV in standby or operating mode when you leave your house.

- The Standby / On button doesn't separate this device completely from mains. Moreover the device consumes power in the standby operation. In order to separate the device completely from mains, the mains plug has to be pulled from the mains socket. Because of that the device should be set up in a way, that an unobstructed access to mains socket is guaranteed, so that in case of emergency the mains plug can be pulled immediately. To exclude the danger of fire, the power cord should principally be separated from the mains socket prior to a longer period of non-usage, i.e. during vacations.

## Electrical device not in the hands of children

Never let children use electrical device unsupervised. Children can't always recognize properly the possible dangers. Batteries / accumulators can be life threatening when swallowed. Store batteries unreachable for small children. In case of swallowing a battery medical aid has to be sought immediately. Also keep the packaging foils away from children. There is danger of suffocation.

## Connection to a Television Distribution System (Cable TV etc.) from Tuner

Device connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing-and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard.

Connection to a cable distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11).

## WARNING

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



## 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

On

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

## Repair Information

Please refer all servicing to qualified personnel. Only qualified personnel must repair the TV. Please contact your local dealer, where you have purchased this TV for further information.

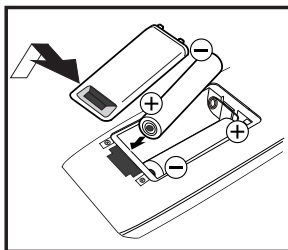
## Overview of the Remote Control

- ① **TV/DTV**: TV – Digital TV
- ② **OK**: OK / Confirm / Channel list
- ③ **◀**: Cursor left
- ④ **MENU**: Menu on-off
- ⑤ **ZOOM**: Image size
- ⑥ **RED**: Function in menu help bar
- ⑦ **GREEN**: Function in menu help bar
- ⑧ **AV**: Source selection
- ⑨ **↕ / ↗**: Programme up / down
- ⑩ **i**: Info
- ⑪ **≡**: Index Page (in TXT mode)
- ⑫ **⌂**: Favourite mode (in DTV mode)
- ⑬ **⏸**: Hold (in TXT mode)
- ⑭ **TV/RADIO**: Switches between TV and radio broadcasts.(in DTV mode)
- ⑮ **⏻**: Standby
- ⑯ **GUIDE**: Programme guide
- ⑰ **▲**: Cursor up
- ⑱ **▶**: Cursor right
- ⑲ **BACK**: Return
- ⑳ **▼**: Cursor down
- ㉑ **↔**: Jump to now (in EPG mode) / Surround Sound on/off
- ㉒ **BLUE**: Function in menu help bar
- ㉓ **YELLOW**: Function in menu help bar
- ㉔ **— / +**: Volume up / down
- ㉕ **⊘**: Muting
- ㉖ 0,1...8,9 :Numeric buttons.
- ㉗ **≡**: Teletext on / PAT (Picture-and-text) / Teletext off
- ㉘ **?**: Reveal
- ㉙ **⌚**: Sleep timer on/off
- ㉚ **⋮**: Subtitle on-off
- ㉛ **⏮/II**: Mono-stereo / Dual I-II / Current Language (in DTV mode)



## 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. Observe the correct polarity (+/-) when inserting batteries 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.

## 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 "I" button to position "I" so the TV will switch to standby mode.

### To switch on the TV from standby mode either:

- Press the "I" button,  $\hat{P}$  /  $\hat{P}$  or a numeric button on the remote control.
- Press the **P/CH-** or **P/CH+** button on the TV.

The TV will then switch on and the Power LED lights up.

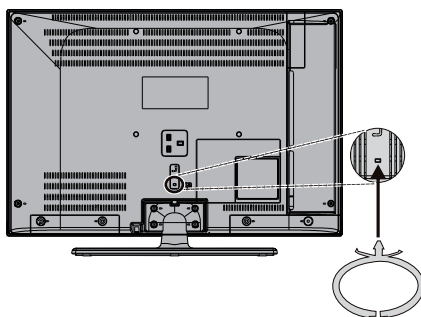
**Note:** If you switch on your TV via **PROGRAMME UP/DOWN** buttons on the remote control or on the TV set, the programme that you were watching last will be reselected.

### To Switch the TV Off

- Switch the "I" button to position 2 as illustrated,  $\text{I} \rightarrow \text{II}$  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 features such as Standby Search, Over Air Download or Timer is active.

## Using the Cable Holder

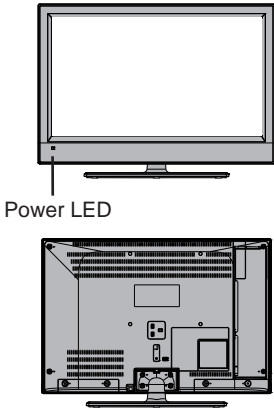
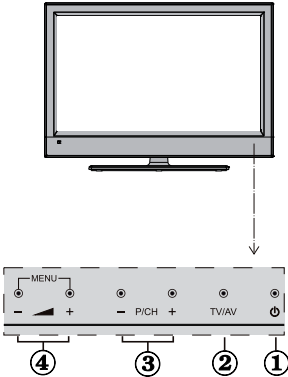


You can use the supplied cable holder as the following:

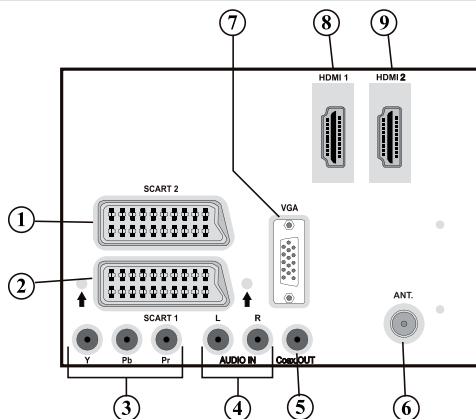
- Place the cable holder into the cable holder hole located on the rear side of the TV as illustrated above.
- Place cables into the cable holder after all necessary connections are made.



# LCD TV and Operating Buttons

| FRONT and REAR VIEW   | FRONT VIEW  | Control Buttons  |
|---|---|--|
|  <p>Power LED</p> |  | <p>① Standby button</p> <p>② TV/AV button</p> <p>③ Programme Up/Down buttons</p> <p>④ Volume Up/Down buttons</p> <p><b>Note:</b> Press <b>■</b> and <b>■</b> + buttons at the same time to view main menu.</p> |

## Viewing the Back side Connections



- SCART 2** inputs or outputs for external devices.

**Note:** Slow switching\* can only be possible in EXT-2. \*TV will turn on from standby if EXT-2 is activated. TV will go to standby after EXT-2 deactivation.
- SCART 1** input or output for external devices. Connect the SCART cable between SCART socket on TV and 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 SCART socket, the TV will automatically switch to AV mode.
- Component Video Inputs (YPbPr)** are used for connecting component video.

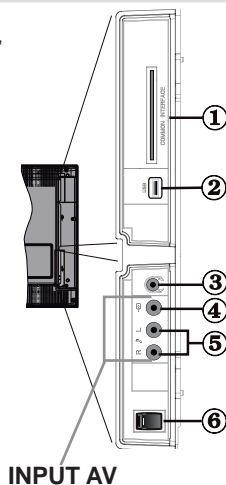
You can connect the component video and audio sockets with a device that has component output. Connect the component video cables between the **COMPONENT VIDEO INPUTS** on the TV and the component video outputs of your device. While connecting, be sure that the letters on your TV, "Y", "Pb", "Pr" correspond with your device's connectors.
- 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.

- ⑤ **S/PDIF Coaxial Out** outputs digital audio signals of the currently watched source. Use an **SPDIF coaxial cable** to transfer audio signals to a device that has S/PDIF input
- ⑥ **RF Input** connects to an aerial antenna 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.
- ⑦ **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
- ⑧ **HDMI 1: HDMI Input**  
**HDMI Inputs** are for connecting a device that has an **HDMI** socket. Your LCD TV 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. These sockets can accept either 720p or 1080p signals. No sound connection is needed for an HDMI to HDMI connection.
- ⑨ **HDMI 2: HDMI Input**

## 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 "Conditional Access" section.
- ② USB :only service purpose
- ③ 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).
- ④ 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.
- ⑤ 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.
- ⑥ Standby switch is used for turning the TV on or off.



**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.

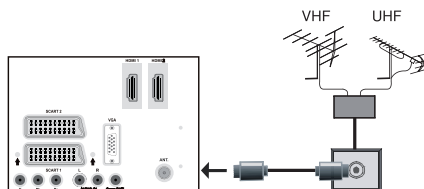
## Power Connection

**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

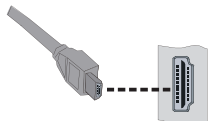
- Connect the aerial or cable TV plug to the AERIAL INPUT socket located at the rear of the TV.



## Side HDMI Connection

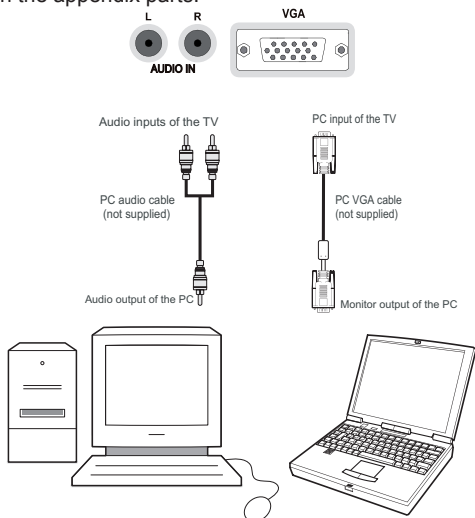
You can use side HDMI input to connect a device that has an HDMI connector to your TV. Use an appropriate HDMI cable to make such a connection. Note that you should switch to the HDMI source to view the content from the connected device. Power off both the TV and the device before making any connections. Side HDMI Input supports connections between HDMI devices such as DVD players. You can use side HDMI input of the TV to connect to an external HDMI device. Use an HDMI cable to connect.

HDMI DEVICE SIDE VIEW



## Connecting the LCD TV to a PC

For displaying your computer's screen image on your LCD TV, you can connect your computer to the TV set. Power off both computer and display before making any connections. Use 15-pin D-sub display cable to connect a PC to the LCD TV. When the connection is made, switch to PC source. See "Input selection" section. Set the resolution that suits your viewing requirements. Resolution information can be found in the appendix parts.



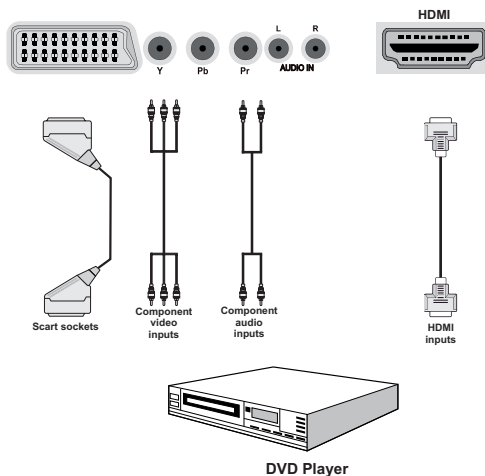
## Connecting to a DVD Player

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 device 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 SCART 1 or SCART 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.



## Using Side AV Connectors

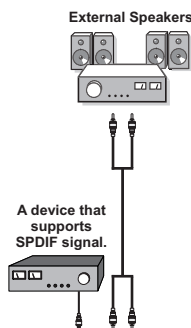
You can connect a range of optional equipment to your LCD TV..

- For connecting a camcorder, connect to the VIDEO IN socket and the AUDIO SOCKETS. Do not connect the camcorder to 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 the TV sound from headphones, connect to the HEADPHONE jack of the TV.

## Using Other 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 a to a device that has SPDIF support, use an appropriate SPDIF cable to enable sound connection.



## 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 consecutively for directly changing sources.



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

## Operation with the Buttons on 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 "P/CH +" button to select the next programme or "P/CH -" button to select the previous programme.

### Viewing Main Menu

- Press the "◀▶" / "▶+" button at the same time to view main menu. In the Main menu select sub-menu using "AV" button and set the sub-menu using "◀▶" or "▶+" buttons. To learn the usage of the menus, refer to the menu system sections.

### 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.

### 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 "P" button to select the previous programme.
- Press "P" 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, press the numeric buttons consecutively. When the pressing time is due for the second numeric button, only the first digit programme will be displayed. Press directly the programme number to reselect single digit programmes.

### Digital Teletext (\*\* for UK only)

- Press the "IT" button.
- The digital teletext information appears.
- Operate it with the coloured buttons, cursor 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 “OK” button or similar message appears on the screen, press the OK button.
- When the “” 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 “” button again, the digital teletext screen will be displayed.

## Analogue Teletext

Use of teletext and its functions are identical to the analogue text system. Please do refer to the “TELETEXT” explanations.

## Viewing Electronic Programme Guide (EPG)

You can view the electronic programme guide (EPG) to view information about available programmes. To view the EPG menu please press **GUIDE** button on the remote control.

- Press “/“” buttons to navigate through channels and programme list.
- EPG menu displays available information on all channels.
- Please note that event information is updated automatically. If there are no event information data available for channels, EPG will be displayed with blanks.



**OK (Options):** Displays programme options including “**Select Channel**” option.

**i (INFO) (Event Details):** Displays the programmes in detail.

**Green button:** Programme schedule will be listed

**Yellow button:** Display EPG data in accordance with timeline schedule

**Blue button (Filter):** Views filtering options.



**Red button (Prev Time Slice):** Displays the programmes of previous time slice.

**Green button (Next Time Slice):** Displays the programmes of the next time slice.

**Yellow button (Prev Day):** Displays the programmes of previous day.

**Blue button (Next day):** Displays the programmes of the next day.

**Numeric buttons (Jump):** Jumps to the preferred channel directly via numeric buttons.

**OK (Options):** Displays programme options including “**Select Channel**” option.

**Text button (Filter):** Views filtering options.

**i (INFO):** Displays the programmes in detail.



**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 (Filter):** Views filtering options.

**i (INFO):** Displays the programmes in detail.

**Numeric buttons (Jump):** Jumps to the preferred channel directly via numeric buttons.

**OK (Options):** Displays programme options including “**Select Channel**” option.

**Text (Search):** Displays “**Guide Search**” menu.

**(...):** Press (...) button to view Select Genre menu. Using this feature, you can search the programme guide database in accordance with the genre. Info available

in the programme guide will be searched and results matching your criteria will be listed.

↔ (Now) : Shows the current programme.

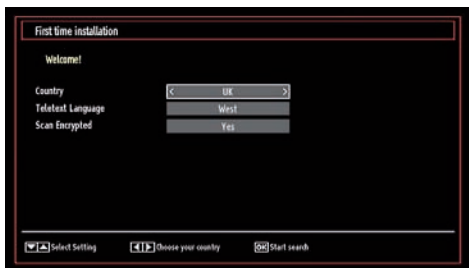
## First Time Installation

**IMPORTANT:** Ensure that the aerial is connected before switching on the TV for the first time installation.

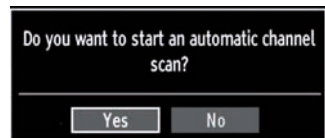
- When the TV is operated for the first time, installation wizard will guide you through the process. First, language selection screen will be displayed:



- Use “▼” or “▲” buttons to select your language and press **OK** button to set selected language and continue.
- After selecting the language, “Welcome!” screen will be displayed, requiring you to set **Country**, **Teletext Language** and **Scan Encrypted** options.



- By pressing “◀” or “▶” button, select the **country** you want to set and press “▼” button to highlight **Teletext Language** option. Use “◀” or “▶” button to select desired Teletext Language.
- Press “▼” button after setting Teletext Language option. **Scan Encrypted** will be then highlighted. You can set **Scan Encrypted** as **Yes** if you want to scan coded stations. Afterwards select the desired Teletext Language.
- Press **OK** button on the remote control to continue and the following message will be displayed on the screen:



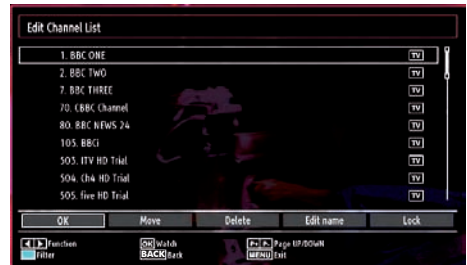
To select the “Yes” or “No” option, highlight the item by using “◀” or “▶” buttons and press **OK** button.

Afterwards, the following OSD will be displayed on the screen and the digital television will search for digital terrestrial TV broadcasts



*Note: You can press **MENU** button to cancel.*

- After all the available stations are stored, Channel List will be displayed on the screen. If you like the sort channels, according to the LCN, please select “Yes” and than press “OK”.

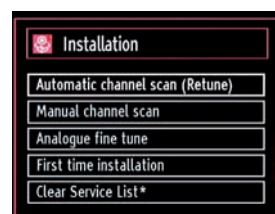


- Press **OK** button to quit channel list and watch TV.

## Auto Tuning

*HINT: Auto tuning feature will help you to retune the TV set in order to store new services or stations.*

Press **MENU** button on the remote control and select **Installation** by using “◀” or “▶” button. Press **OK** button and the following menu screen will be displayed.



Select **Automatic Channel Scan** by using “▼”/“▲” button and press **OK** button. **Automatic Channel Scan** options will be displayed. You can select **Digital Aerial**, **Analog** or **Digital Aerial-Analogue** tuning using “▼”/“▲” and **OK** buttons.

## Auto Channel Scan Menu Operation

**Digital:** Searches and stores aerial DVB stations.

**Analogue:** Searches and stores analog stations.

**Full:** Searches and stores both analog and aerial DVB stations.

- Whenever you select an automatic search type and press **OK** button, a confirmation screen will appear on the screen. To start installation process, select **Yes**, to cancel select **No** by using “◀” or “▶” and **OK** button.
- After auto channel scan type is set and selected and confirmed, installation process will start and progress bar will move along. Press **MENU** button to cancel process. In such a case, located channels are not stored.

## Manual Tuning

**HINT:** This feature can be used for direct broadcast entry.

- Select **Manual Channel Scan** from the Installation menu by using “▼”/“▲” and **OK** buttons. Manual Scan options screen will be displayed.
- Select the desired **Search Type** using “◀” or “▶” button. Manual search options will change accordingly. Use “▼”/“▲” button to highlight an item and then press “◀” or “▶” button to set an option. You can press **MENU** button to cancel.

## Digital Manual Search



In manual channel scan, the number of the multiplex or frequency are entered manually and only that multiplex or frequency are searched for the channels. After selecting search type as **Digital**, you can enter the multiplex or frequency number using the numeric buttons and press **OK** button to search.

Also you can change Network channel scan as enabled or disabled. While Network channel scan is enabled and if channels that have network search

info are found, automatic search process will end by locating those channels.

## Analogue Manual Search



After selecting search type as analogue, you can use “▼”/“▲” button to highlight an item and then press “◀” or “▶” button to set an option.

Enter the channel number or frequency using the numeric buttons. You can then press **OK** button to search. When the channel is located, any new channels that are not on the list will be stored.

## Analogue Fine Tune

- Select **Analogue Fine Tune** from the Installation menu by using “◀” or “▶” and **OK** buttons. Analog fine tune screen will be displayed. Analog Fine Tune feature will not be available if there are no analog channels, digital channels and external sources stored.
- Press **OK** button to proceed. Use “◀” or “▶” button to set Fine Tune. When finished, press **OK** button again.

## Managing Stations: Channel List

The TV sorts all stored stations in the Channel List. You can edit this channel list, set favourites or set active stations to be listed by using the Channel List options.

- Press **MENU** button to view main menu. Select Channel List item by using “◀” or “▶” button. Press **OK** to view menu contents.



Select **Edit Channel List** to manage all stored channels. Use “◀” or “▶” and **OK** buttons to select Edit Channel List.



## Operating the Channel List



- Press “▼” or “▲” button to select the channel that will be processed. Press “◀” or “▶” button to select a function on Channel List menu.
- Use **P+/P-** buttons to move page up or down.
- Press **BLUE** button to view filtering options.
- Press **MENU** button to exit.

### Moving a Channel

- First select the desired channel. Select Move option in the channel list and press **OK** button.
- Edit Number screen will be displayed. Enter the desired channel number by using the numeric buttons on the remote control. If there is a previously stored channel on that number, a warning screen will be displayed. Select Yes if you want to move the channel and press **OK**.
- Press **OK** button to process. Selected channel is now moved.

### Deleting a Channel

You can press **GREEN** button to tag/untag all channels; **YELLOW** button to tag/untag channel.

- Select the channel that you want to delete and select **Delete** option. Press **OK** button to continue.
- A warning screen will appear. Select **YES** to delete, select **No** to cancel. Press **OK** button to continue.

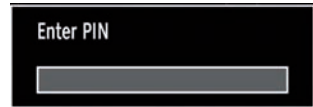
### Renaming a Channel

- Select the channel that you want to rename and select **Edit Name** option. Press **OK** button to continue.
- Pressing “◀” or “▶” button moves to the previous/next character. Pressing “▼” or “▲” button toggles the current character, i.e., ‘b’ character becomes ‘a’ by “▼” and ‘c’ by “▲”. Pressing the numeric buttons ‘0...9’ replaces the highlighted character with the characters printed above the button one by one as the button is pressed.
- When finished, press **OK** button to save. Press **MENU** to cancel.

## Locking a Channel

You can press **GREEN** button to tag/untag all channels; **YELLOW** button to tag/untag a single channel.

- Select the channel that you want to lock and select **Lock** option. Press **OK** button to continue.
- You will be asked to enter parental control PIN. Default PIN is set as **0000**. Enter the PIN number.

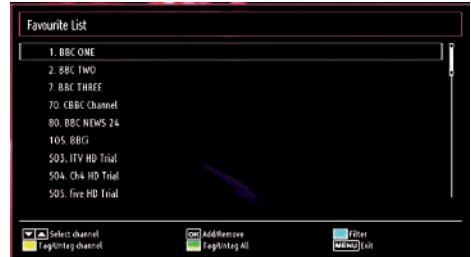


- Press **OK** button when the desired channel is highlighted to lock/unlock the channel. Lock symbol will be displayed next to the selected channel.

## Managing Stations: Favourites

You can create a list of favourite programmes.

- Press **MENU** button to view main menu. Select Channel List item by using “◀” or “▶” button. Press **OK** to view menu contents.
- Select **Favourites** to manage favourite list. Use “▼”/“▲” and **OK** buttons to select **Favourites**.
- You can set various channels as favourites so that only the favourite channels are navigated.



- Select a channel by using “▼” or “▲” button. Press **OK** button to add selected channel to favourites list. Press **OK** button again to remove.

### Button Functions

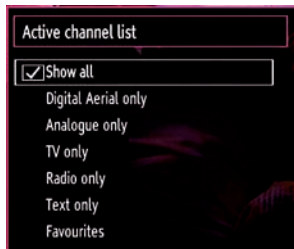
- **OK**: Add/remove a station.
- **YELLOW**: Tag/untag a channel.
- **GREEN**: Tag/untag all channels.
- **BLUE**: Displays filtering options.



## Managing Stations: Sorting Channel List

You can select broadcasts to be listed in the channel list. To display specific types of broadcast, you should use Active channel list setting.

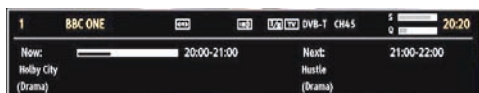
Select Active channel list from the Channel list menu by using “◀” or “▶” button. Press **OK** button to continue.



You can select a broadcast type option from the list by using “▼” / “▲” and **OK** buttons.

## On-Screen Information

You can press **i** (INFO) button to display on-screen information. Details of the station and current programme will be displayed on the information banner.



The information banner gives information on the channel selected and the programmes on it. The name of the channel is displayed, along with its channel list number.

*Hint: Not all channels broadcast the programme data. If the name and time of the programme are not available, then information banner will be displayed with blanks.*

If the selected channel is locked, you must enter the correct four-digit numeric code to view the channel (default code is **0000**). “Enter PIN” will be displayed on the screen in such a case:

## Changing Image Size: Picture Formats

- Programmes can be watched in different picture formats, depending on the transmission received.
- You can change the aspect ratio (image size) of the TV for viewing the picture in different zoom modes.
- Press **ZOOM** button repeatedly to change the image size. Available zoom modes are listed below.

## 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

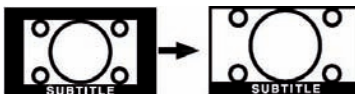
This uniformly stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the wide TV screen.



- 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.

## Subtitle

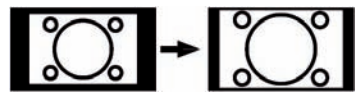
This zooms up the wide picture (16:9 aspect ratio) with subtitles to the full screen.



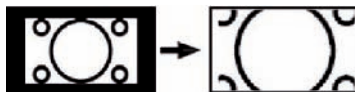
**Note:** You can shift to screen up or down by pressing “▼” / “▲” buttons while picture zoom is selected as *panaromic*, *14:9 Zoom*, *Cinema* or *Subtitle*.

## 14:9

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



## 14:9 Zoom



This option zooms to the 14:9 picture.

## 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 picture appear unnatural.



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

## Cinema

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



## Configuring Picture Settings

You can use different picture settings in detail.

Press **MENU** button and select the Picture icon by using “◀” or “▶” button. Press **OK** button to view Picture Settings menu.



## Operating Picture Settings Menu Items

- Press “▼” or “▲” button to highlight a menu item.
- Use “◀” or “▶” button to set an item.
- Press **MENU** button to exit.

## Picture Settings Menu Items

**Mode:** For your viewing requirements, you can set the related mode option. Picture mode can be set to one of these options: **Cinema, Game, Dynamic** and **Natural**.

**Contrast:** Sets the lightness and darkness values of the screen.

**Brightness:** Sets the brightness value for the screen.

**Sharpness:** Sets the sharpness value for the objects displayed on the screen.

**Colour:** Sets the colour value, adjusting the colors.

**Colour Shift:** Adjust the desired colour tone.

**Colour Temp:** Sets the desired colour tone.

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

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

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

**Noise Reduction:** If the broadcast signal is weak and the picture is noisy, use **Noise Reduction** setting to reduce the noise amount. Noise Reduction can be set to one of these options: **Low, Medium, High** or **Off**.

**Picture Zoom:** Sets the picture size to Auto, 16:9, Subtitle, 14:9, 14:9 Zoom, 4:3, Panoramic or Cinema.

**Reset:** Resets the picture settings to factory default settings.

While in VGA (PC) mode, some items in Picture menu will be unavailable. Instead, VGA mode settings will be added to the Picture Settings while in PC mode.

## PC Picture Settings

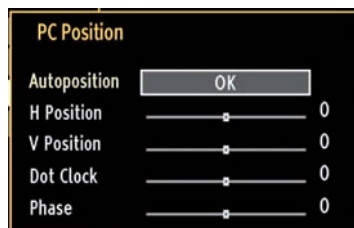
For adjusting PC picture items, do the following:

Press “◀” or “▶” button to select Picture icon. Picture menu appears on the screen.

**Contrast, Brightness, Colour, Colour Temp and Picture Zoom** settings in this menu are identical to settings defined in TV picture menu under “Main Menu System”.

**Sound, Settings and Source** settings are identical to the settings explained in main menu system.

**PC Position:** Select this to display PC position menu items.



**Autoposition:** Automatically optimizes the display. Press **OK** to optimize.

**H Position:** This item shifts the image horizontally to right hand side or left hand side of the screen.

**V Position:** This item shifts the image vertically towards the top or bottom of the screen.

**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.

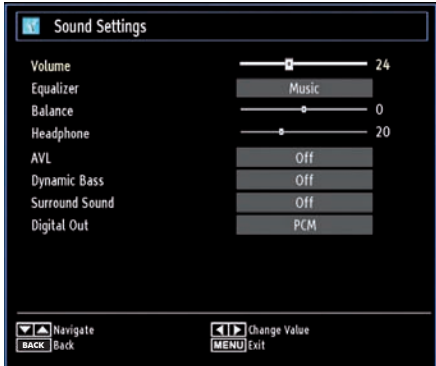
**Phase:** Depending on the resolution and scan frequency that you input to the TV set, you may see a hazy or noisy picture on the screen. In such a case

you can use this item to get a clear picture by trial and error method.

## Configuring Sound Settings

*Sound settings can be configured according to your personal preferences.*

Press **MENU** button and select the first icon by using “◀” or “▶” button. Press **OK** button to view Sound Settings menu.



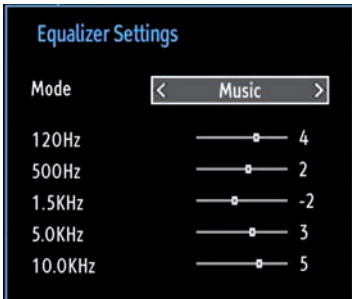
### Operating Sound Settings Menu Items

- Press “▼” or “▲” button to highlight a menu item.
- Use “◀” or “▶” button to set an item.
- Press **MENU** button to exit.

### Sound Settings Menu Items

**Volume:** Adjusts volume level.

**Equalizer:** Press **OK** button to view equalizer sub-menu.



In equalizer menu, the preset can be changed to **Music**, **Movie**, **Speech**, **Flat**, **Classic** and **User**. Press the **MENU** button to return to the previous menu.

**Note:** *Equalizer menu settings can be changed manually only when the **Equalizer Mode** is in **User**.*

**Balance:** This setting is used for emphasizing left or right speaker balance.

**Headphone:** Sets headphone volume.

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

**Dynamic Bass:** Dynamic Bass is used to increase bass effect of the TV set.

**Surround Mode:** Surround mode can be change as On or Off.

**Digital Out:** Sets digital out audio type.

## Configuring Your TV's Settings

*Detailed settings can be configured to suit your personal preferences.*

Press **MENU** button and select Settings ikon by using “◀” or “▶” button. Press **OK** button to view Settings menu.



### Operating Settings Menu Items

- Press “▼” or “▲” button to highlight a menu item.
- Press **OK** button to select an item.
- Press **MENU** button to exit.

### Settings Menu Items

**Conditional Access:** Controls conditional access modules when available.

**Language:** Configures language settings.

**Parental:** Configures parental settings.

**Timers:** Sets timers for selected programmes.

**Date/Time:** Sets date and time.

**Sources:** Enables or disables selected source options.

**Other Settings:** Displays other setting options of the TV set.

## Using a Conditional Access Module

**IMPORTANT: Insert or remove the CI module only when the TV is SWITCHED OFF.**

- In order to watch certain digital channels, a conditional access module (CAM) can be necessary. This module must be inserted in the CI slot of your TV.
- Obtain the Conditional Access Module (CAM) and the viewing card by subscribing to a pay channel company, then insert those to the TV using the following procedure.
- Insert the CAM and then the viewing card to the slot that is located in the terminal cover at the rear side of the TV.
- 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.

- 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.

### Viewing Conditional Access Menu (\*)

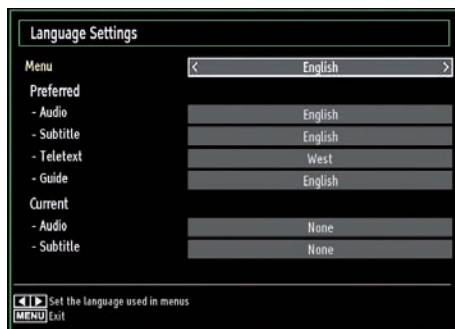
(\*) These menu settings may change depending on the service provider.

Press **MENU** button and select the icon by using “◀” or “▶” button. Press **OK** button to view Settings menu. Use “▼” or “▲” button to highlight **Conditional Access** and press **OK** to view menu items.

## Configuring Language Preferences

You can operate the TV's language settings using this menu.

Press **MENU** button and select the fifth icon by using “◀” or “▶” button. Press **OK** button to view Settings menu. Use “◀” or “▶” button to highlight **Language** and press **OK** to continue:



Use “▼” or “▲” button to set an item. Settings are stored automatically.

**Menu:** displays the system language.

### Preferred

These settings will be used if available. Otherwise the current settings will be used.

- **Audio:** Sets the preferred audio language.
- **Subtitle:** Sets the subtitle language. Selected language will be seen in subtitles.
- **Teletext:** Sets teletext language.
- **Guide:** Sets the preferred Guide language.

### Current (\*)

(\*) These settings can be changed if only the broadcaster supports. Otherwise, settings will not be available to be changed.

**Audio:** Changes the audio language for the current channel.

- **Subtitle:** Sets the subtitle language for the current channel.

## Parental Control

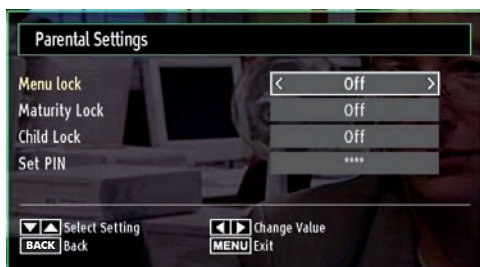
To prohibit viewing of certain programmes, channels and menus can be locked by using the parental control system.

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

Press **MENU** button and select the icon by using “◀” or “▶” button. Press **OK** button to view Settings menu. Use “▼” or “▲” button to highlight **Parental** and press **OK** to continue:



To display parental lock menu options, PIN number should be entered. Factory default PIN number is **0000**. After coding the correct PIN number, parental settings menu will be displayed:



### Parental Settings Menu Operation (\*)

- Select an item by using “▼” or “▲” button.
- Use “◀” or “▶” button to set an item.
- Press **OK** button to view more options.

(\*) If you set Country option as UK in the first time installation, Maturity Lock and Child Lock options will not be visible. This setting is available only for EU countries.

**Menu Lock:** Menu lock setting enables or disables the menu access. You can disable access to the installation menu or the whole menu system.

**Maturity Lock:** When set, this option gets the maturity information from the broadcast and if this maturity level is disabled, disables access to the broadcast.

**Child Lock:** When Child Lock is set, 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. Hence, if one of those buttons is pressed, **Child Lock Is On** will be displayed on the screen when the menu screen is not visible.

**Set PIN:** Defines a new PIN number. Use numeric buttons to enter a new pin number. You will need to code your new pin a second time for verification purposes.

**IMPORTANT:** The factory default pin number is **0000**, if you change the pin number make sure you write it down and keep it safe.

## Timers

To view Timers menu, press **MENU** button and select Channel List icon by using “◀” or “▶” button. Press **OK** button to view Channel List menu. Use “▼” or “▲” button to highlight Timers and press **OK** to continue:

### Setting Sleep Timer

This setting is used for setting the TV to turn off after a certain time.

- Highlight Sleep Timer by using “▼” or “▲” button.
- Use “◀” or “▶” button to set. The timer can be programmed between **Off** and **2.00** hours (120 minutes) in steps of 30 minutes.

### Setting Programme Timers

You can set programme timers for a particular programme using this feature.

Press “▼” button to set timers on an event. Programme timer function buttons will be displayed on the screen.

### Adding a Timer

- Press **YELLOW** button on the remote control to add a timer. The following menu appears on the screen:

**Channel:** Changes channel by using “◀” or “▶”.

**Timer Type:** This feature is unavailable to be set.

**Date:** Enter a date using the numeric buttons.

**Start:** Enter a starting time using the numeric buttons.

**End:** Enter an ending time using the numeric buttons.

**Duration:** Displays duration between the starting and ending time.

**Repeat:** Sets a timer to be repeated as Once, Daily or Weekly. Use “◀” or “▶” buttons to select an option.

- Press **GREEN** button to save the timer. Press **RED** button to cancel.

**Change/Delete:** Controls parental settings on timers.

### Editing a Timer

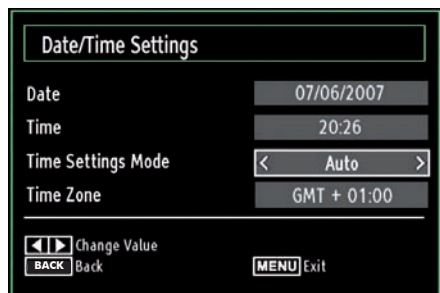
- Select the timer you want to edit by pressing “▼” or “▲” button.
- Press **GREEN** button. Edit Timer menu screen will be displayed.
- When finished with editing, press **GREEN** button to save. You can press **MENU** button to cancel.

## Deleting a Timer

- Select the timer you want to delete by pressing “▼” or “▲” button.
- Press **RED** button.
- Select **YES** by using “◀” or “▶” buttons to delete the timer. Select **NO** to cancel.

## Configuring Date/Time Settings

Select **Date/Time** in the Settings menu to configure Date/Time settings. Press **OK** button.



- Use “▼” or “▲” buttons to highlight **Date/Time**.

Date, Time, Time Settings Mode and Time Zone Setting will be available.

Use “▲” or “▼” buttons to highlight the Time Settings Mode. Time Settings Mode is set using “◀” or “▶” buttons. It can be set to AUTO or MANUAL.

When AUTO is selected, Date/Time and Time Zone options will not be available to be set. If MANUAL option is selected as the Time Zone can be altered:

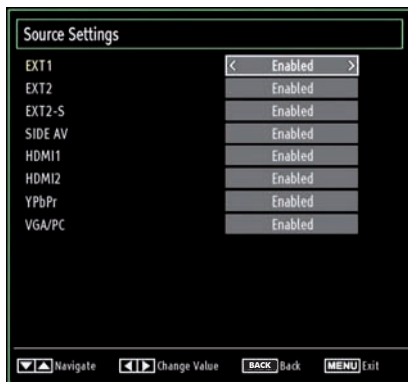
- By pressing “▲” or “▼” buttons select Time Zone.

Use “◀” or “▶” buttons to change the Time Zone between GMT-12 or GMT+12. Date/Time on the top of the menu list will then change according to the selected Time Zone.

- Changes are automatically stored. Press **MENU** to exit.

## Configuring Source Settings

You can enable or disable selected source options. The TV will not switch to the disabled source options when **AV** button is pressed.



- Select **Sources** in the Settings menu and press **OK** button.
- Press “▼” or “▲” buttons to select a source.
- Use “◀” or “▶” button to enable or disable the selected source. Changes are automatically stored.

## Configuring Other Settings

To view general configuration preferences, select **Other Settings** in the Settings menu and press **OK** button.



## Operation

- Press “▼” or “▲” buttons to select an item.
- Use “◀” or “▶” button to set an option.
- Press **OK** button to view a sub-menu.

**Menu Timeout:** Changes timeout duration for menu screens.

**Scan Encrypted:** When this setting is on, search process will locate the encrypted channels as well. If



it is set as **Off**, encrypted channels will not be located in automatic search or manual search.

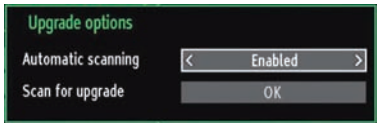
**Backlight:** This setting controls the backlight level and it can be set to Maximum, Minimum, Medium and Eco Mode (optional).

**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.

**Blue Background:** Activates or deactivates blue background system when the signal is weak or absent.

**Software Upgrade:** To ensure that your TV always has the most update information, you can use this setting. In order for the proper operation, please ensure that the TV is set to standby mode.



You can enable or disable automatic upgrade by setting **Automatic Scanning** option.

You can manually search for new software by selecting **Scan for upgrade**.

**Hard of Hearing:** If the broadcaster enables any special signal concerning the audio, you can set this setting as On to receive such signals.

**Audio Description:** Audio description refers to an additional narration track for blind and visually impaired viewers of visual media, including television and movies. The description narrator talks through the presentation, describing what is happening on the screen during the natural pauses in the audio (and sometimes during dialogue, if deemed necessary). You can use this feature, only if the broadcaster supports that additional narration track.

**Auto TV Off:** You can set the timeout value of auto off feature. After the timeout value is reached and the Tv is not operated for selected time , the TV will go off.

**Standby Search:** Use “▼” or “▲” button to select Standby Search and then press “◀” or “▶” button to set this setting as On or Off. If you change Standby Search to Off, this function will be unavailable. To use Standby search please make sure that you select Standby Search as On.

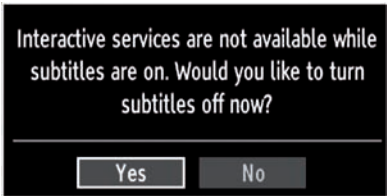
## Other Features

**Displaying TV Information:** Programme Number, Programme Name, Sound Indicator, time, teletext, channel type and resolution information is displayed on the screen when a new programme is entered or “**i** (INFO)” button is pressed.

**Muting Function:** Press “**X**” button to disable sound. Muting indicator will be displayed in the upper side of the screen. To cancel Muting, there are two alternatives; the first one is pressing the “**X**” button and the second one is increasing the volume level.

**Displaying Subtitles:** You can enable subtitles by pressing the “**...**” button of the remote control. Press “**...**” button again to disable subtitle function.

If “**Subtitle**” is **On**, pressing the “**≡**” button causes the following warning message display on the screen (\*\* for UK only)



## 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 / Mix** : Activates teletext mode when pressed once. Press again to place the teletext screen over the programme (mix). Pressing again will quit the teletext mode.

“(≡1)” **Index**

Selects the teletext index page.

“(⏏)” **Expand**: No function

“(?)” **Reveal**

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

“(⏏)” **Hold**

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

“(⏏)” **No function**

⏏ / ⏏ **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 **FASTTEXT** and **TOP text** systems. When these systems are available, the pages are divided into groups or topics.

When **FASTTEXT** 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 ⏏ or ⏏ commands will request the next or previous page respectively.

## 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 on 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 1368 x 768. 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 |
|-------|------------|-----------|
| 1     | 640x400    | 70 Hz     |
| 2     | 640x480    | 60 Hz     |
| 3     | 640x480    | 75 Hz     |
| 4     | 800x600    | 60 Hz     |
| 5     | 800x600    | 75 Hz     |
| 6     | 1024x768   | 60 Hz     |
| 7     | 1024x768   | 70 Hz     |
| 8     | 1024x768   | 75 Hz     |
| 9     | 1152x864   | 75 Hz     |
| 10    | 1280x768   | 60 Hz     |
| 11    | 1280x1024  | 60 Hz     |
| 12    | 1360x768   | 60 Hz     |

# Appendix B: 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 | ☑    | ☑    | ☑    | ☑    | ☑    |

# Appendix C: AV and HDMI Signal Compatibility (Input Signal Types)

| Source             | Supported Signals |      | Available |
|--------------------|-------------------|------|-----------|
| EXT-1<br>(SCART 1) | PAL 50/60         |      | O         |
|                    | NTSC 60           |      | O         |
|                    | RGB 50            |      | O         |
|                    | RGB 60            |      | O         |
| EXT-2<br>(SCART-2) | PAL 50/60         |      | O         |
|                    | NTSC 60           |      | O         |
|                    | RGB 50            |      | X         |
|                    | RGB 60            |      | X         |
| SIDE AV            | 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<br>HDMI2     | 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             | 24Hz | O         |

(X: Not Available, O: Available)

*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 D: Software Upgrade

- Your TV is capable of finding and updating new software upgrades over broadcast channels.
- For broadcast channels search, TV looks the available channels stored in your settings. So before software upgrade search, it is advised to auto search and update all available channels.

### 1) Software upgrade search via user interface

- It is possible manually to check if there is a new software upgrade for your TV set.
- Simply navigate on your main menu. Choose **Settings** and select **Other Settings** menu. In **Other Settings** menu navigate on to the **Software Upgrade** item and press **OK** button to open **Upgrade Options** menu.
- In **Upgrade Options** menu select **Scan for upgrade** and press **OK** button.
- If a new upgrade is found, it starts to download the upgrade. A progress bar indicates the remaining download progress. When download completes with success a message is displayed for reboot to activate new software. Press **OK** to continue with the reboot operation.

### 2) 3.AM search and upgrade mode

- If **Automatic scanning** in **Upgrade Options** menu is enabled, TV wakes up at 03:00 and searches broadcast channels for new software upgrade. If new software is found and downloaded successfully, with next power up TV opens with new software version.

**Note on reboot operation:** *Reboot is the last step in software upgrade operation if download of new software is finished successfully. During reboot TV makes final initializations. In reboot sequence panel power is closed and front led indicates the activity with blinking. Around 5 minutes later TV restarts with new software activated.*

- If your TV fails to restart in 10 minutes, unplug power for 10 minutes and re-plug again. TV should open with new software safely. If you still can not get TV working, please kindly repeat unplug and plug sequence a few times more. If your set still can not operate, please call the service personnel to fix the problem for you.

**Caution:** *While led is blinking during reboot do not unplug your TV's power. Doing this may cause your TV not to re-open again and can only be fixed by service personnel.*

## 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

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 6

### POWER CONSUMPTION

100 W (max)

< 1 W (Standby)

### PANEL

26" Wide Screen

### DIMENSIONS (mm)

WxHxD (With stand): 652 x 480 x 165

Weight (kg): 8.20

WxHxD (Without stand): 652 x 440 x 89

Weight (kg): 7.75

## Digital Reception (DVB-T)

### Transmission Standards:

DVB-T, MPEG2,DVB-T, MPEG4 HD

#### i. DEMODULATION

- -Symbol rate: COFDM with 2K/8K FFT mode.
- -Modulation: 16-QAM - 64-QAM FEC for all DVB modes (automatically found)
- MHEG-5 ENGINE compliant with ISO/IEC 13522-5 UK engine Profile
- Object carousel support compliant with ISO/IEC 135818-6 and UK DTT profile
- Frequency range: 474 MHz - 850 MHz

#### 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, 720p, 576p)
- -CVBS analogue output. (In HD channels, this will not be available)

#### iii. AUDIO

- -MPEG-1 layer I/II, MPEG-2 layer II, AAC, HEAAC, AC3, E-AC3
- -Sampling frequencies supported are 32 kHz, 44.1 kHz and 48 kHz



**JVC has assigned the service and in warranty responsibility to Kesa Electricals plc.**

FOR CUSTOMER SERVICE, ADDITIONAL SET-UP AND OPERATING ASSISTANCE, OR TO ORDER ACCESSORIES PLEASE CALL:

| Country     | Sales Company | Tel                                      | URL Main  | Service Contact   |
|-------------|---------------|--|---|---|
| UK          | COMET         | 0844 8009595                             | <a href="http://www.comet.co.uk">http://www.comet.co.uk</a>         | -   |
| Spain       | EMH           | -  | <a href="http://www.emh.es/">http://www.emh.es/</a>                 | <a href="mailto:pedidosweb@emh.es">pedidosweb@emh.es</a>                    |
| Belgium     | NVB           | 02/334.00.00                             | <a href="http://www.vandenborre.be/">http://www.vandenborre.be/</a> | <a href="mailto:service@vandenborre.be">service@vandenborre.be</a>          |
| Netherlands | BCC           | 0900-0555                                | <a href="http://www.bcc.nl/">http://www.bcc.nl/</a>                 | <a href="http://www.bcc.nl/info/contact">http://www.bcc.nl/info/contact</a> |
| Italy       | DARTY IT      | 800928884                                | <a href="http://www.darty.it/">http://www.darty.it/</a>             | <a href="mailto:scrivici@darty.it">scrivici@darty.it</a>                    |
| Czech       | DATART        | 810 328 278                              | <a href="http://www.datart.cz/">http://www.datart.cz/</a>           | <a href="mailto:infolinka@datart.cz">infolinka@datart.cz</a>                |
| France      | DARTY         | 0978 970 970<br>(prix d' un appel local) | <a href="http://www.darty.com">http://www.darty.com</a>             | -   |

**WHEN CALLING CUSTOMER SERVICE - PLEASE HAVE YOUR MODEL NUMBER READY**



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