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1 Important Information

LCD panels are produced with state-of-the-art technology. However, there may be missing or lit spots on the screen under certain circumstances. That does not mean that the product is faulty.

1.1-Cleaning the screen and cabinet...

After powering off, wipe the screen and the cabinet clean with a soft and dry cloth. We recommend that you do not use patented polishes or solvents on the screen or cabinet since they may cause damage.

1.2-Disposing of your TV at the end of service life...

The cold cathode fluorescent lamp found in your LCD screen contains a very small amount of mercury. Once your TV set has completed its physical life, please dispose of it in accordance with local government regulations or leave it at a recycling centre.

1.3-Superior features of your integrated digital television

This television can receive and process all analog and digital broadcastings. This television set has an integrated digital and analog receiver. The digital receiver unit processes the signals coming from digital transmitters and can convert them into superior sound and image qualities. TV Guide (valid for digital broadcastings only) informs you about changes in the programme list briefly and provides programme lists of all digital broadcastings for a number of forthcoming days. You can display detailed information about each programme by pressing a single button if this feature is supported by the broadcasting enterprise. This television has a comprehensive and user friendly menu configuration.

1.4-Receiving digital broadcasting channels

You will need outdoor or indoor (passive or active indoor antennas used together with its own power cord) antennas to receive digital broadcastings. Contrary to the analog broadcastings, all digital broadcastings may not have their own transmission frequency. Instead, various digital broadcasting channels are gathered in regional or national groups called bouquets. You can find current transmission data from teletexts of various broadcasting enterprises or from TV guide or from the internet.

2 Features of your new television

We would like this product, which has been manufactured in modern facilities in accordance with total quality principles, to offer you the best performance. Therefore, we would like you to read this entire manual carefully before you use your product and keep it for future reference.

2.1-Special Features

- HD-Ready feature.
- HDCP feature.
- HDMI connection input.
- Playing Picture, Music and Film from USB
- High image and sound performance.
- CI slot input.
- 8-day EPG (Electronic Programme Guide)
- List of 4 favorite channels in digital and analog mode.
- Performing Digital and Analog processes by a single menu thanks to the advanced menu system.
- Updating feature for all system software through on-air broadcasting.
- Wide angle of vision.
- Scart / RCA connection inputs.
- PC/COMB connection.
- Low energy consumption.
- AVL (Automatic Volume Limiting) feature.
- Programmable power on/off feature.
- Toptext (*)
- Graphic equalizer.
- Clearer pictures with the Digital Comb Filter.
- Sharpness feature in Colour Transitions (CTI)
- Sharpness feature and picture resolution (LTI) in black-white transitions
- Fine Tuning.
- Memory capacity up to 100 analog channels.
- Memory capacity up to 400 digital channels.
- Infrared remote control equipped with all functions.
- Child Lock
- Panel Lock
- Freezing the picture
- Viewing NTSC broadcasts via Scart input.
- 4:3, 16:9, 14:9 Letterbox, Subtitle, Panorama and Cinema Panaroma picture formats.
- Ability to operate with both 220 V mains voltage and also 12V adaptor (*)



HDMI™, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Manufactured under license from Dolby Laboratories.

(*): These features are optional and they are not available on all models.

3 Important Safety Instructions

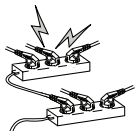


This symbol is used to warn the user about the “dangerous voltage” contained inside the housing of the product that may create a risk of electrical shock.

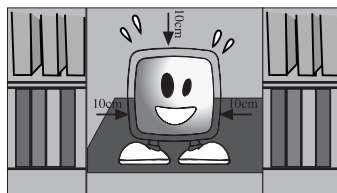


This symbol is used to remind the user important usage and service instructions supplied with the device.

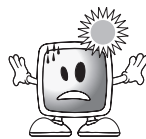
- 1) Please **READ** the operating instructions before using the device for the first time.
- 2) Please observe the instructions contained in the Operating Instructions.
- 3) Please consider all warnings.
- 4) **MAKE SURE** that all power connections (extension cables and the connections between the device components) have been made properly and in accordance with the manufacturer’s instructions. Before making or changing the connections, power off the device and unplug the mains connection plug.
- 5) If you have any doubts regarding the installation, operation or safety of the device, please **REFER** to the vendor.
- 6) **BE CAREFUL** with glass panels and covers on the device. The screen glass may break and cause serious injuries if something hits it.
- 7) To ensure adequate ventilation, please leave a clearance area of at least 10 cm around the television. This clearance prevents the TV from overheating and consequently causing damage.
 - Using the device in dusty environments should also be avoided.
 - Never block the slots and openings by placing the TV on a bed, sofa, pillow or other similar surfaces.



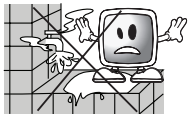
- Never install the TV into closed places such as bookcases or cabinets unless adequate ventilation is provided.



- 8) **DO NOT COVER** the ventilation openings of the device with items such as newspapers, tablecloth, curtain, etc. Overheating causes damage and shortens the service life of the device.
- 9) Your TV may be damaged if you place it under direct sunshine or close to a heater. Please abstain from using the product in very hot or humid locations or in places where the temperature is likely to decrease below 5°C (41°F). **DO NOT PLACE** on or near the device any hot objects or items with open flame such as candles or any night lamps. The high temperature can melt plastic parts and cause a fire.



10) Never operate electrical devices close to water. Operating such devices, for example, near a bathtub, washbasin, kitchen washbasin, washing basin, wet basement and swimming pool can cause fire or electric shock.



- Do not allow your TV to get wet. Never pour any liquids onto the TV. Do not operate your TV if any solid or liquid substance enters into it. This can cause electric shock and your TV may be damaged. Have it checked immediately by qualified personnel.



- Keep flammable materials and open flame sources (such as candles) away from TV in order to avoid risk of fire.

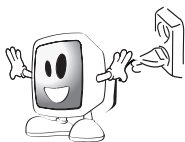


11) DO NOT USE

headphones at extremely high volume levels since this may cause permanent loss of hearing.



12) Operate your TV only in the 230 V 50Hz voltage range. Use the AC power cable supplied with the product. If your TV is a grounded (Class I) product, then it must certainly be connected to a grounded socket.



- The socket into which you plug in the AC power cable or the adaptor must be within easy reach.**
- Unplug the device in order to disconnect it from mains power.**

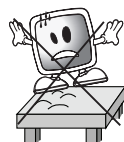
Note: If your device has an adaptor, then use the adaptor and AC power cable supplied with your product. Do not use defective sockets. Make sure that the plug is firmly inserted into the socket. If the plug remains loose, then it can cause fire due to arcing. Refer to an electrician to have your socket replaced.

13) Make sure that the power cable is not stepped on and that there is no bending at the plug sections, plug heads and device output point.



14) Use only the add-ons/accessories specified by the manufacturer.

15) Use only together with the carts, bases, tripods, brackets or stands specified by the manufacturer or sold along with the product.



When using a cart, pay attention that it won't overturn while carrying the cart/device combination and cause injuries. The device must be fixed to the floor or wall as indicated in the installation instructions in order to avoid any possible damages. Place your device on a level surface.



16) Unplug the power cable during thunderstorms or when you will not use your device for a long period of time.

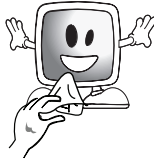


17) Consult authorised service personnel for service requirements. Never attempt to repair the device yourself. Opening the cabinet can expose you to dangerous voltages or other hazardous situations. Service is required in situations such as damage to the power cable of the device or its plug, water spills or substances falling into the device, the device is



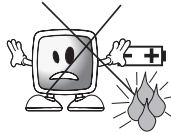
subjected to rain or moisture, it does not operate normally or it is dropped.

- 18)** Wipe the TV cabinet clean with a soft and dry cloth. Wipe dust from the screen gently with a soft cloth. Stubborn stains can be cleaned with a cloth slightly moistened with soap and lukewarm water. Never use solvents such as thinner or gasoline for cleaning. Unplug the AC power cable from the socket when cleaning the TV. Otherwise, there is the risk of electric shock.



- 19)** Do not dispose of the batteries in fire.

- **Do not short circuit, dismantle or overheat the batteries. There is the risk of explosion if the batteries are not replaced correctly. Replace only with the same or equivalent type batteries.**



- 20)** Disposing of the exhausted batteries:

- Dispose of the exhausted batteries in accordance with the local laws and regulations in order to protect our environment.



- 21)** Do not dispose of your TV with regular household waste. Observe local laws and regulations for disposal.



Note 1: This is a Class A product.

During operation, the device can cause radio interference. In this case the user may have to remedy this. Please contact your specialist dealer.

Note 2: Electromagnetic fields can cause temporary performance degradation. This can be distinguished as noise in the image.

4 Start

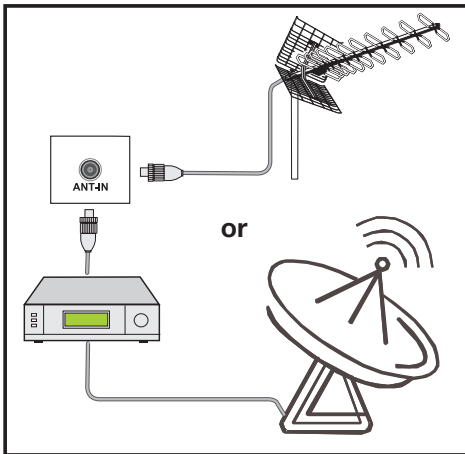
Remove your television carefully from its box. You can keep the packaging of your television to use in future.

Contents of the box

Power cable
Remote control
2 batteries

Note: Scart, HDMI, VGA and RCA cables are not supplied with the device.

4.1-Antenna connection



If you use a 75 Ohm coaxial cable (round cable) as an antenna cable, connect the antenna plug directly to the antenna input located on the TV.

Motorized vehicles, energy lines and telecommunication lines affect your antenna. Therefore, be careful to install your antenna away from these and metal surface in such a way that it shall not swing. Do not make your antenna cable longer than required and do not coil it. Make sure that it is not crimped passing through a window or door. Your antenna and cable might be affected by natural phenomena such as rain, wind, smoke and humidity over time. Periodically check your antenna and equipment.

4.2-Powering on your device and the initial use

1. Connect the supplied mains cable to the mains input socket located on the back panel of the LCD TV.

2. Insert the power cable plug supplied with the device into the mains socket.

Note: Your TV is equipped to operate with TV buttons in case your R/C is broken or the batteries are exhausted.

POWER

P+

P-

3. Press the power on/off button located on the LCD TV.

4. To power on your television, press **P+** or **P-** keys on the remote control. For this process, you can also use the buttons on your TV. The picture will appear on the screen after a short while.

Note: If you are not going to use your television for a long time, unplug its power cable from the socket or turn it off with on/off button.

4.3-Performing initial start and settings

To set up your television, read the sections on the TV controls and making the channel settings.

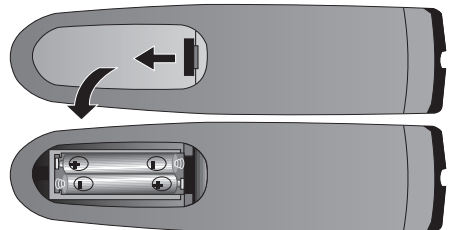
4.4-Batteries

Open the lid of the battery compartment and make sure that you have placed the batteries in the correct direction. For this remote control, UM-4, IEC R03 or AAA 1.5 V batteries are suitable.

Do not throw your old batteries into the fire, discard them in a dedicated waste area for this purpose.

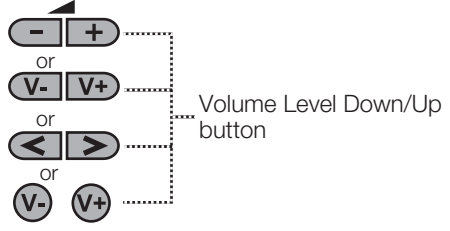
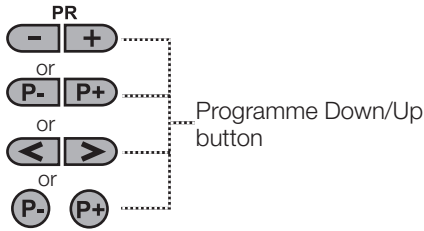
Do not mix used batteries with new ones or different types of batteries together.

The performance of the remote control will be reduced at a distance of 8 meters from or at an angle of 30 degrees beyond the centre of the TV.



5 Your new television

5.1-TV Control Panel



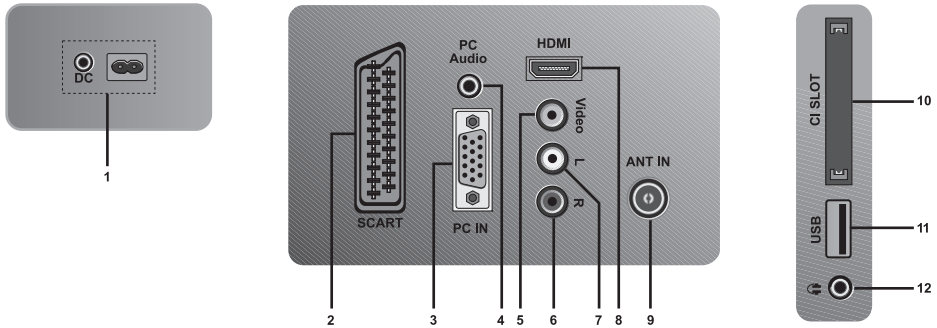
Menu button/Source selection button / Sound-Program Selection Button



Bright light: TV is in Stand-by
Dimmed light: TV is On
No light: Power Cable is not connected.



5.2-Rear and Side External Connections



- 1- Power input
- 2- Scart/S-VHS input
- 3- VGA (PC/COMB connection) input
- 4- PC/COMB audio input
- 5- Video input CINCH connector
- 6-Sound input CINCH connector (Right/R)
- 7-Sound input CINCH connector (Left/L)
- 8- HDMI input
- 9-Antenna input
- 10-CI slot input
- 11-USB input
- 12-Headphone input (*)

Important Note: DC power input is for models with an adaptor only.

(*): These features are optional and they are not available on all models.

- Above drawing for external connections is representational. Their order and places on your TV may be different.
- Please see Technical Specifications Table on page 32 for the available external connections on your television.
- When you use an adaptor with your television, you can not turn your television on or off with the mains switch. Mains switch is used to turn on or off the television when it is powered with 220V AC.

5.3-Remote Control



















	Temporary off button
	Temporary sound mute button
	Numeric buttons
	Picture format selection button Picture and Teletext (PAT) button
	Switching back to the last viewed channel button Teletext sub page button (Sub)
	Source Menu button
	EPG menu button (D) Teletext Question/Answer button (Reveal)
	Volume down / up buttons
	Programme forward / back buttons
	Confirmation button
	Up/Down navigation buttons Right/Left navigation buttons
	Zoom mode selection button Teletext page enlarge button (Double)
	Enter and exit menu button
	Return to previous menu button
	Red Teletext button
	Green Teletext button
	Yellow Teletext button Picture pause button
	Blue Teletext button
	TV/Teletext / MIX selection button
	Teletext page stop button (Stop)
	Subtitle selection button (D)
	Audio language selection button (D) Teletext Update button
	Information display button Teletext index button
	Favorites channel list selection button

(D): Digital Mode Only.

5.4-Remote Control USB Mode




	Up/Down navigation buttons Right/Left navigation buttons
	Time Entry buttons
	Repeat button
	Confirmation button Time window display button
	Zoom mode selection button
	Enter and exit menu button
	Start playing button (Play) Stop playing button (Stop)
	Fast rewind button
	Stop playing button (Stop)
	Fast forward button
	Skip chapter or track backward button
	Skip chapter or track forward button
	Subtitle selection button
	Audio language selection button
	Information display button
	Switch to upper menu button

6 Performing the initial power-on settings

6.1-TV controls

6.1.1-Temporary on/off (STAND-BY)



When you press the red **POWER** button located on your remote control while your television is switched on, the sound and the picture will go off. In the stand-by mode, the power indicator of your television will glow brighter. To switch your television

back on, either press any numeric button or **P+ / P-** buttons.

Caution! If you are not going to use your television for a long time, unplug its power cable from the socket or turn it off with on/off button.


6.1.2-Digital TV, Analogue TV and AV Mode selection

Press the **Change Source** button on your remote control. **INPUT SOURCE** menu will be displayed. Select **DTV (Digital TV)**, **ATV (Analogue TV)** or desired **AV** mode from the Source menu with **up/down** navigation buttons and confirm with **OK** button so that your television will switch to the source you have selected.

6.1.3-Channel Selection


You may select programme number you would like by pressing the **P+/P-** buttons on your television and on your remote control. To select the programmes that are above 9, you can use the Numerical buttons. You may enter the number of the programme you would like to select using the numerical buttons. For example, to switch to the programme number 12, press respectively the numeric buttons 1 and 2 on your remote control. You can perform the program selection also from the Program Table and Channel List menus.

6.1.4-Temporary sound mute (MUTE)



To temporarily mute the sound of your television, press the **MUTE** button on your remote control. In that case, **MUTE** symbol will appear on the screen. When you press the same button a second time, the sound will be restored. If you press the **V+** button while in the Mute mode, the sound level is increased and the Mute function is aborted.

6.1.5-Returning to the Last Viewed Programme (SWAP)

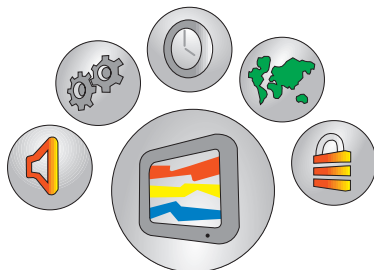


Allows you to switch between the current programme you are watching and the source, or the last selected programme and the source. For example, if you change the channel to Program 11 while you were watching Program 1, press **SWAP** button to switch back to Program 1. Press **SWAP** button to switch back to Program 11 again.



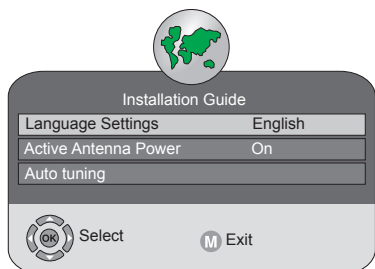
6.1.6-Main Menu

Press the **M** button. The Menu including all the setting menus will appear on the screen. Navigate through the Menu titles with the **Right/Left** navigation buttons and press the **OK** button to select the desired menu. If you want to exit the menu in any step, just press the **M** button. Press **←** button to return to the previous Menu while you are in a sub menu.



6.2-Turning on your television for the first time and tuning

Installation Guide menu will be displayed on the screen when you turn on your television for the first time.



Press **Right/Left** navigation buttons to select the desired menu language from the **Language** tab. **Select Auto Search** by pressing the down navigation button and confirm your selection with **OK** button or the **right** navigation button. Country Selection menu will be displayed. Make the Country and Scan Type selections by pressing the **Up/Down, Left/Right** navigation buttons. Time Zone will be set automatically according to the country selected. If the antenna connections are correct, press **OK** button to start Auto Search.

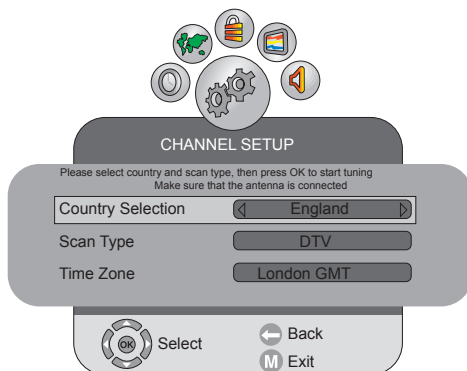
Press **M** button to cancel the Auto Tuning.

6.3-Performing Digital channel settings

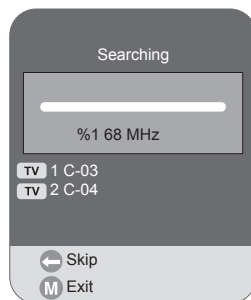
You can tune the Digital programmes automatically or manually and store them in your television.

6.3.1-Automatic tuning of digital channels and storing in the memory

Press the **M** button on your remote control. Select **CHANNEL SETUP** by pressing the **Right/Left** navigation button and confirm your selection with **OK** button. Select **Auto Tuning** tab by pressing the **Up/Down** navigation buttons and press **Right** navigation button or **OK** button to confirm. Country Selection menu will be displayed.



Scroll to the **Country Selection** tab by pressing the **Up/Down** navigation buttons and press **Right/Left** navigation buttons to select your country. Then, scroll to the **Scan Type** tab by pressing the **Down** navigation button and select **DTV** option by pressing the **Right/Left** navigation buttons. Press **OK** button to confirm your selections. Digital channels are searched and stored automatically. The progress of auto tuning and the channels stored in the memory are displayed in the menu.

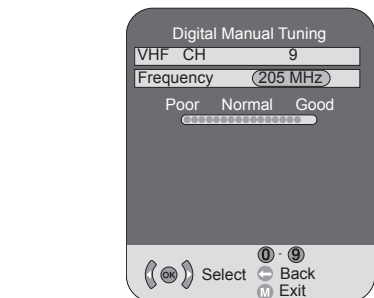


Programme Table menu is displayed at the end of the Auto Tuning.

Note: If you wish to search the Digital and Analogue channels concurrently, choose **Scan Type** as **Digital and Analog** from the **Auto Tuning** menu.

6.3.2-Manual tuning of digital channels and storing in the memory

Press the **M** button on your remote control. Select **CHANNEL SETUP** by pressing the **Right/Left** navigation button and confirm your selection with **OK** button. Select **Digital Manual Tuning** tab by pressing the **Up/Down** navigation buttons and press **Right** navigation button or **OK** button to confirm. **Digital Manual Tuning** menu will be displayed.

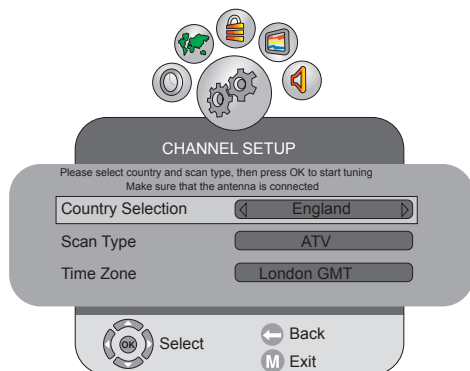


Enter the channel number from the Manual search menu using the numeric keys if you know the channel number; if you don't know the channel number, you can perform search by using **right/left** navigation buttons. Channel will appear in the list and be stored in the memory when it is found. Press **←** button to return to the previous menu from the manual search menu or press **M** button to exit the menu.

6.4-Performing Analog channel settings

6.4.1-Automatic tuning of analog channels and storing in the memory

Press the **M** button on your remote control. Select **CHANNEL SETUP** by pressing the **Right/Left** navigation button and confirm your selection with **OK** button. Select **Auto Tuning** tab by pressing the **Up/Down** navigation buttons and press **Right** navigation button or **OK** button to confirm. Country Selection menu will be displayed.

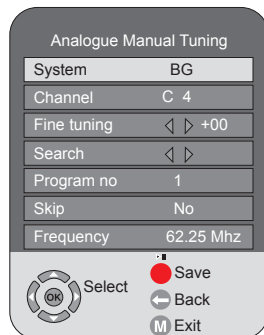


Scroll to the **Country Selection** tab by pressing the **Up/Down** navigation buttons and press **Right/Left** navigation buttons to select your country. Then, scroll to the **Scan Type** tab by pressing the **Down** navigation button and select **ATV** option by pressing the **Right/Left** navigation buttons. Press **OK** button to confirm your selections. Analog channels are searched and stored automatically. The progress of auto tuning and the channels stored in the memory are displayed in the menu. **Programme Guide** menu is displayed at the end of the Auto Tuning.

6.4.2-Manual tuning of analog channels and storing in the memory

6.4.2.1-If you already know the channel number

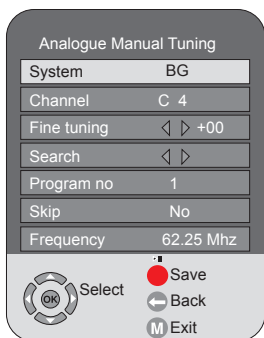
Select **Analogue Manual Tuning** by pressing the **Up/Down** navigation buttons in the **CHANNEL SETUP** menu and confirm by pressing the **OK** button. **Analogue Manual Tuning** menu will be displayed.



Select the system in which you would like to make the search from the **System** tab by pressing the **Right/Left** navigation buttons and move to the **Band** tab by pressing the **down** navigation button. Press **OK** on your remote control to select “**S**” band or “**C**” band and enter the channel number with numeric buttons. Move onto the **Programme No** tab and enter the channel number in which you would like to have the channel stored. If the broadcast viewed on the screen is of your desired quality, press the **Red** button on your remote control to store the changes into memory. The channel will be stored according to the programme number of your choice. You can tune and store in memory other channels the same way. In the event that you wish to exit the menu for any reason, simply press the **M** button.

6.4.2.2-If you do not know the channel number

Select **Analogue Manual Tuning** by pressing the **Up/Down** navigation buttons in the **CHANNEL SETUP** menu and confirm by pressing the **OK** button. **Analogue Manual Tuning** menu will be displayed.



In the **Programme no** tab, enter the channel number where you would like to store the searched channel. Select the system in which you would like to make the search from the **System** tab by pressing the **Right/Left** navigation buttons and move to the **Band** tab by pressing the **down** navigation button. Press **OK** on your remote control to select “**S**” band or “**C**” band, scroll to the **Search** tab by pressing the **down** navigation button and press **Right/Left**

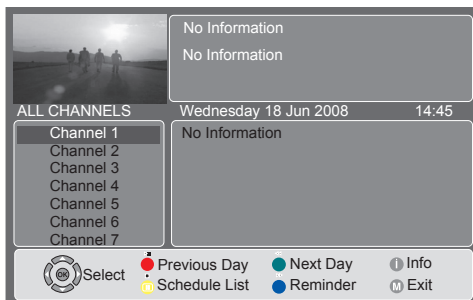
navigation buttons to start the search. Press the **Red** button on your remote control to store the channel you found. The channel will be stored to the channel number of your choice.

6.4.2.3-Fine Tuning

If the channel you found is not of the desired quality and requires Fine Tuning, then select the **Fine Tuning** tab by pressing the **Down** navigation button in the **Analogue Manual Tuning** menu. Using the **Left/Right** navigation buttons on your remote control, adjust the broadcast displayed on the screen to your desired quality. Under normal circumstances, you will not require to use the Fine Tune function. The Automatic Frequency Lock values of your television will automatically adjust and lock themselves to the channel. However, you might need it in case the TV channels do not operate according to the standards. Press the **Red** button on your remote control to store the settings you made.

6.5-Electronic TV Guide (EPG)

EPG Electronic TV Guide is for Digital broadcasts only. If it is supported by the broadcasting enterprise, the Electronic TV Guide gives general information about all of the programmes over the next 8 days. To display the Electronic TV Guide, press **EPG** button on the remote control and EPG will be displayed.

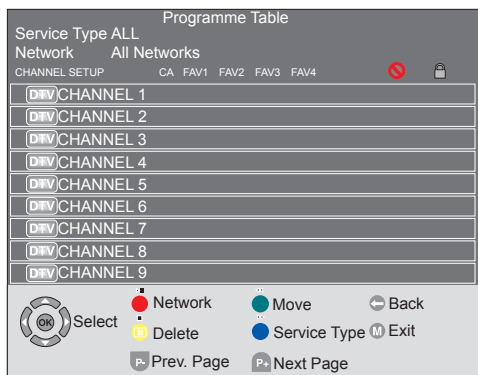


Important Note: Not all broadcasting enterprises supply a detailed TV guide. Most of the broadcasting enterprises provide daily programme information, but they do not give detailed explanations. Some broadcasting enterprises, on the other hand, do not give any programme information at all.


You may navigate through the channels by **P+/P-** buttons and the broadcast stream of the channel you stop on can be displayed on the right side. You can select the broadcast stream information by pressing the **Up/Down** buttons. To get further information about the programme press Info button and detailed information about the selected programme will be displayed. When you press the **right** navigation button on the selected program, **Next Day** and **Previous Day** options are displayed. Press the **GREEN** button on your remote control to display the programme information of the next day and press **RED** button to display the programme information of the previous day. You may add timer for any programme you like in the broadcast stream. When the time of the relevant programme comes, a warning screen appears. To add a timer to any broadcast you wish, select the broadcast you want to add timer from the EPG menu with the navigation buttons and press the **BLUE** button on your remote control. Selected program is highlighted.

6.6-Programme guide


With the programme guide, you may list the television channels, delete channels, create favorites list, lock any channel you wish or change the names of the analog channels according to your personal choice. Select the **Programme Table** tab by pressing the **Down** navigation button in **CHANNEL SETUP** menu and confirm with the **OK** button. **Programme Table** menu will be displayed.



6.6.1-Selecting the service type

 You may select the service type by pressing the **“BLUE”** button on your remote control in the Programme Guide menu. The service type you have selected appears on the upper left corner of the menu. Service types are in the form of **“ALL TYPE”** (all channels), **“DTV”** (only Digital channels), **“ATV”** (only Analog channels) and **“RADIO”** (only radio channels). Only those channels in the service type you select shall be displayed on the Programme Guide menu.

6.6.2-Creating and selecting favorites list

 You can create 4 favorite channel lists based on your personal preferences. To do this, select the channel you would like to add in the favorite list by using the **Up/Down** navigation buttons while you are in the Programme Guide menu, then select the favorite list into which you would like to add the channel by using the **Right/Left** navigation buttons and press the **OK** button. A **“Heart”** symbol will be displayed under the favorite list to which you have added the channel. You can add the channel you have selected into more than one favorite list. You can directly select the favorite channel list you created. To do this, press the **FAV** button on your remote control. **Favorite List** menu will be displayed.



Select one of the **ALL CHANNELS, FAV1, FAV2, FAV3, FAV4** lists by pressing the **Up/Down** navigation buttons and press **OK** button to confirm.

6.6.3- Relocating a stored channel



Select the channel you want to relocate from the Program Table menu with **Up/Down** buttons and press the "**GREEN**" button on your remote control. **New Position** will be displayed. Enter the new channel number you wish to relocate by means of the **numeric buttons** and press the **OK** button. Your channel will be moved to its new location. You may perform this procedure for more than one channel.

Press **M** button to finish the setting process.

6.6.4- Deleting a stored channel



Select the channel you want to delete from the Programme Guide menu with **Up/Down** buttons and press the "**YELLOW**" button on your remote control. The tab of the channel to be deleted will become yellow. Press **GREEN** button to delete the selected channel or press **RED** button to delete the whole channel list. Once you press the Green button, the selected programme is deleted

and the following channels are transferred to previous programme number. After setting is complete, press **M** button to exit the menu.


6.6.5- Locking a stored channel

For this feature, please see page. 22

7.5-Parental Control

6.6.6-Skipping a stored channel



In the event that you do not wish to see certain programmes while navigating through the channels using the **P+/P-** buttons, then you can use this function. Select the program that will be hidden by pressing the **Up/Down** or **Right/Left** navigation buttons, scroll to the **Skip** option and press **OK** button to confirm.  will appear on the program to be skipped. You may perform this procedure for more than one programme. To view the skipped programme, directly enter

the programme number using the numeric buttons or select it from the Channel List menu. To cancel the program skipping

process, select the  sign while the channel to be skipped is highlighted and press **OK** button. After setting is complete, press **M** button to exit the menu.

6.6.7- Renaming a stored analog channel



You can assign an analog programme or programmes of choice the names that have a maximum of eight characters. To do this, select the analog channel you want to rename from the **Programme Table** menu with **Up/Down** navigation buttons and press the **RED** button on your remote control. The colour of the tab where the channel name exist will change and a green box will appear around the initial letter of the channel name; choose the desired letter, number or sign using the **Up/Down** navigation buttons. For the next character, press the **Right** navigation

button and then select the desired letter, number or sign again with the **Up/Down** navigation buttons. After entering all the characters, store the name you have written in the memory by pressing the **OK** button. To write names for any of the other programmes, simply repeat the above procedure. Press **←** button to return to the previous menu or press **M** button to exit the menu after the setting is complete.

6.6.8-Channel List

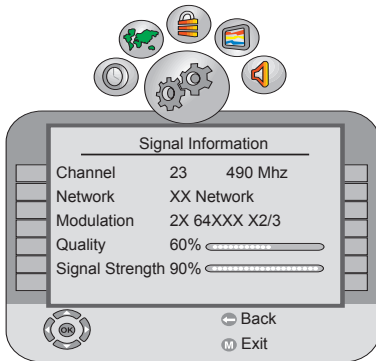
If you press **OK** button when no menu is open, **Channel List** menu will be displayed on the screen.

You can see all the channels of the current mode while you are in the **Channel List** menu, you can select the desired channel with **Up/Down** buttons and view it by pressing the **OK** button.



6.7-Signal Information

This menu gives information about Channel, Network, Modulation, Signal level and quality. Press **M** button to enter this menu. Select **Channel Setup** menu by pressing the **Right/Left** navigation buttons. Select **Signal Information** tab by pressing the **Down** navigation button and confirm with **Right** navigation button or **OK** button. Signal Information menu will be displayed.



Note: Signal Information menu will be active only for Digital broadcasts.

6.8-CA Module (Conditional Access)

In this menu, you can check the CA Module settings that you can attach to your television. If a CI module is inserted for a channel that is encrypted, then a submenu for that module is opened and the information for that module is updated.

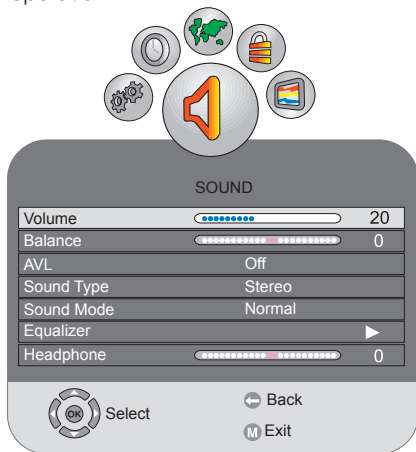
6.9-Active Antenna Power (optional)

When this feature is set to On, you can feed an external antenna you will connect to your television by the tuner of your television without needing any external source. Scroll to the **Active Antenna Power** tab by pressing the **down** navigation button in the **Channel Setup** menu and select **On** by pressing the **Right/Left** navigation buttons.

7 The settings on your new television

7.1-Performing the sound settings

You may perform Volume settings by using the **V+** or **V-** buttons on your television or the **V+ / V-** buttons on your remote control. You can perform other Sound settings by entering the Sound menu. To do this, press the **M** button on your remote control, select **SOUND** menu by pressing the **Right/Left** navigation buttons and press the **OK** button. In this menu, you can select one of the titles for which you would like to perform an operation.



7.1.1-Balance

To adjust the sound balance between the right and left loudspeakers to the desired level, select the Balance tab in the volume menu by using the **Down** navigation button. Using the **Left/Right** navigation buttons adjust this option to the desired level.

7.1.2-AVL (Automatic Volume Limiting)

TV channels have different sound levels. This can be noticed from the different volume levels that can be heard while switching from one programme to another. Using the **Right/Left** navigation buttons, select **ON**. The AVL (Automatic Volume Limiting) function maintains the same sound level as you switch from programme to programme. Select **Off** to cancel it.

7.1.3-Sound Type

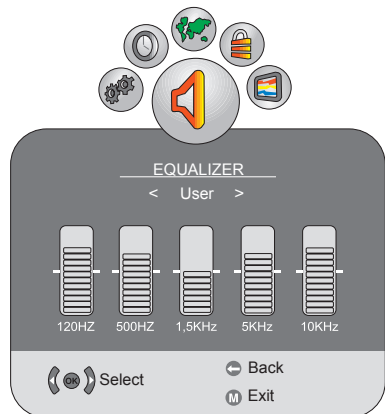
The programme you watch may be broadcast in stereo or in two different languages. Using the **Right/Left** navigation buttons in this menu, you can select Mono/Stereo or Dual-1/ Dual-2.

7.1.4-Sound Mode

If you want to give depth to the sound of the program you are watching, select **Normal** or **Spatial** item by using **Left/Right** navigation buttons.

7.1.5-Equalizer

Select the **EQUALIZER** tab in the Sound menu and confirm with the **OK** button. The Equalizer menu is displayed.



Using the **Right/Left** navigation buttons, you may select either one of the preset **Music, Sports, Movie** and **Speech** options which enhance the sound effect depending on the feature of the programme you are watching or the **User** option which you can adjust as you desire. To adjust the User option, select **User** and press the **OK** button. You can adjust the frequency levels with the **Up/Down** navigation buttons. You can select one of the **120Hz, 500Hz, 1.5kHz, 5kHz** and **10kHz** frequency bands with **Right** and **Left** navigation buttons. Press the **←** button to store the settings and exit the user option.

Note: The settings you have made in the Sound menu will be stored in the memory without requiring any other operations.

7.1.6-Headphone (optional)

By connecting headphones to your television you can listen to the programme sounds independently from your television. To turn up and down the headphone volume level, select Headphone tab from the Sound menu and adjust the volume level by using the Right/Left navigation buttons.

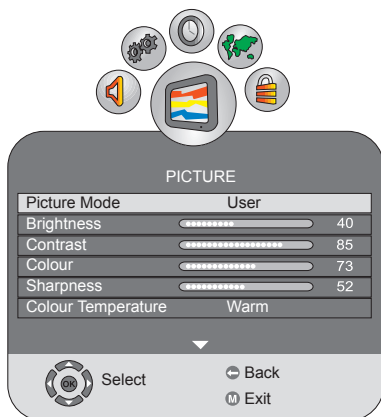
Note 1: The settings you have made in the Sound menu will be stored in the memory without requiring any other operations.

Note 2: When you want to hear the sound from the headphone only, just press the **MUTE** button on your remote control.

7.2-Changing the Picture settings

7.2.1-Picture Menu

You can change Picture settings by entering the Picture menu. To do this, press the **M** button on your remote control, select **PICTURE** menu by pressing the **Right/Left** navigation buttons and press the **OK** button. In this menu, you can select one of the titles for which you would like to perform an operation.



You can select the desired setting by pressing the **Up/Down** navigation buttons and adjust their levels with **Right/Left** navigation buttons. You can adjust **Picture Mode, Brightness, Contrast, Colour, Sharpness** and **Colour Temperature** levels as you desire. You can adjust the **DNR, MPEG NR, Vibrant Colour, Perfect Clear, Dynamic Contrast, Dynamic Backlight** and **Backlight** options as you desire from the **Advanced Picture Settings** menu. The changes you have made in the **PICTURE** menu will be stored in the memory without requiring any other operation.

7.2.2-Picture Mode

You can select either one of the four non-adjustable settings in the memory or one of the user defined options by changing the **Picture Mode** option in Picture menu with **Right/Left** navigation buttons. **Vivid, Natural, Movie** and **Sports** are default values; **USER** represents the values you stored in memory.

7.2.3-Colour Temperature

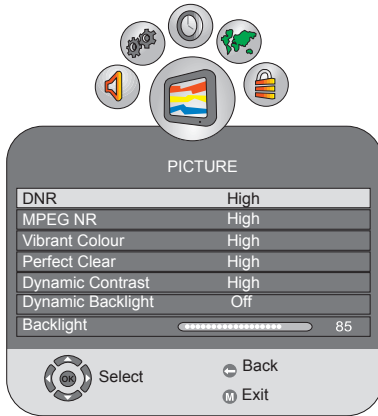
Colour intensity of the picture can be adjusted with this feature. Select **Colour Temperature** tab from the picture menu by pressing the **Up/Down** buttons to activate this feature and then select one of the **Cool, Normal** or **Warm** options by pressing the **Right/Left** buttons.

7.2.4-Tint

When NTSC video is input via Scart, you may make Hue settings. The tint option is not seen in the menu when you have not input this type of a video. When a NTSC video is connected via the Scart, this option becomes active and appears in the menu.

7.2.5-Advanced Picture Features

You can adjust advanced picture features of your television from the Advanced Picture Settings menu under Picture menu.



7.2.5.1-DNR (Noise reduction)

You may reduce interference and noise formed in the picture by using this feature. Select **DNR** tab with the **Up/Down** navigation buttons to activate this feature and select one of the **Off, Low, Normal, High** or **Auto** options with **Right/Left** navigation buttons.

Note: Noise reduction function is only effective in weak broadcasts.

7.2.5.2-MPEG NR

You can remove the artifacts that appear in the picture as square shaped blocks by using this feature. Select **Mpeg NR** tab with the **Up/Down** navigation buttons to activate this feature and select one of the **Off, Low, Medium** or **High** options with **Right/Left** navigation buttons.

7.2.5.3- Vibrant Colour

With this feature you can automatically adjust colour saturation according to the scene. To do this, select **Vibrant Colour** tab with the **Up/Down** navigation buttons and select one of the **Off, Low, Medium** or **High** options with **Right/Left** navigation buttons. With the 'High' option you can obtain the most saturated colours.

7.2.5.4- Perfect Clear

With this feature you can automatically adjust black level of the picture according to the scene. To do this, select **Perfect Clear** tab with the **Up/Down** navigation buttons and select one of the **Off, Low, Medium** or **High** options with the **Right/Left** navigation buttons.

7.2.5.5-Dynamic Contrast

This feature allows making brightness settings according to the picture. A brighter or dimmer picture can be sent to the screen according to the brightness level of the picture. Thus, a wider effect is obtained in terms of contrast. Select **Dynamic Contrast** tab with the **Up/Down** navigation buttons to activate this feature and select one of the **Off, Low, Medium** or **High** options with **Right/Left** navigation buttons.

7.2.5.6-Dynamic Backlight (optional)

With this feature you can automatically adjust backlight strength according to the average brightness in the scene. To do this, select **Dynamic Backlight** tab with the **Up/Down** navigation buttons and select one of the **Auto, Daylight, Night** or **Off** options with **Right/Left** navigation buttons. When the Dynamic Backlight is set to Off, Backlight option becomes active. Backlight option is not accessible when other options are selected.

7.2.5.7-Backlight

With this feature, you can adjust the intensity of light reflected to the LCD Panel. To do this, select **Back Light** tab with the **Up/Down** navigation buttons and adjust the level as you desire with **Right/Left** navigation buttons.

7.2.6-Picture Format

With this option, you can view the broadcast you watch in a format of your choice. You can view the broadcasts in Auto, 16:9, 4:3, Subtitle, Letterbox, Panorama or 14:9 formats. 16:9 or 4:3 formats can be selected in PC modes. In that case, the name of the selected picture format will be displayed in the centre of the screen.

7.2.6.1- Auto

Some movie channels may broadcast in the 16:9 format. If you would like to see this format automatically, then select Auto. In that case, Auto appears on your screen.



7.2.6.2-16:9

Please use this setting for watching wide screen DVDs, wide screen video cassette or 16:9 formatted broadcasts. Since various screen formats such as 16:9, 14:9 and etc. are used, black stripes might be formed on the lower and upper parts of the screen.



7.2.6.3-14:9

This is a movie format.



7.2.6.4-4:3

Use this setting to watch the broadcasts in the 4:3 format.



7.2.6.5-Subtitle

If the subtitles are transmitted in the “16:9 formatted” broadcast, then this setting will push the picture upwards in order to ensure the entire written text to be seen.



7.2.6.6-Letterbox

While watching a “16:9 or Cinemascope formatted” film or video cassette, this setting will eliminate or minimize the black stripes on the background by zooming in the picture without diffusing it.



7.2.6.7-Panorama

This setting will enlarge the image to fit the screen by stretching the image horizontally while holding the correct proportions at the centre of the image. Some distortion may occur.



7.2.6.8-Cinema Panorama

In addition to the Panorama mode, the Cinema Panorama applies a constant amount of zoom to the vertical picture. Thus, picture fills the screen completely when it contains black bars at the top and bottom, particularly during the broadcasts in 4:3 picture format. This situation is mostly encountered in movies that are displayed in 4:3 picture format.



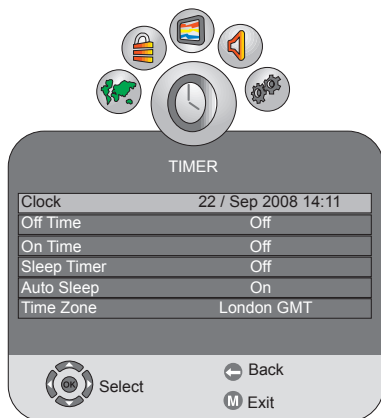
Note: Since the use of certain functions in order to change the picture sizes for collective projection or commercial purposes (modifying the height and width etc.) will be deemed an infringement of the picture's copyright, legal proceedings can be carried out as required under relevant laws.

7.2.6.9-Overscan: Off

When this mode is selected, high defined picture from the HDMI is not cropped and it is displayed in its original size. This is only active in HDMI mode and for resolutions at or above 720p.

7.3-Performing the timer settings

Your television is equipped with the feature of being able to be turned off and on at periods that you specify. Press the **M** button. Select **TIMER** menu by pressing the **Right/Left** navigation buttons and press **OK** button. In this menu, you can select one of the titles for which you would like to perform an operation.



7.3.1-Clock

Current time and date information must be entered from the clock tab. To do this, select the **CLOCK** tab and confirm with the OK button. The Clock menu is displayed. Select **Day, Month, Year, Hour** and **Minute** by pressing the **Up/Down** navigation buttons and enter the required information for each of them with numeric buttons. Press **←** button to return to the previous menu or press **M** button to exit the menu.

Note: You can not perform manual time setting in Digital Mode after your television obtains the time information automatically.

7.3.2-Off Time

Select the **Off Time** tab by pressing the **Up/Down** navigation button in **TIMER** menu and confirm your selection with the **Right** navigation button or **OK** button. In this menu, you can set the off time for your television with weekly or daily periods.

7.3.3-On Time

Select the **On Time** tab by pressing the **Up/Down** navigation button in **TIMER** menu and confirm your selection with the **Right** navigation button or **OK** button. In the **On Time** menu, you can set the on time for your television with weekly or daily periods. In this menu, you select one of the TV, DTV or Radio modes, a specific channel and the volume that would become active when the TV is turned on.

7.3.4-Sleep Timer

Sleep Timer switches your television automatically to Standby Mode after the preset time has elapsed. You can adjust this time between 10 and 240 minutes. To do this, select the **Off Time** tab and press **Right/Left** navigation buttons to select the desired time.

7.3.5-Auto Sleep

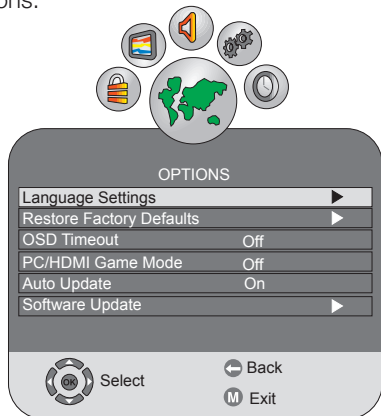
Auto Sleep option can be set to on or off. When the Auto Sleep function is set to **Off**, **NO SIGNAL** will appear on the screen when the TV does not receive any signal from any source and your television will not be turned off. When the Auto Sleep function is set to **On**, **NO SIGNAL** will appear on the screen if the TV does not receive any signal from any source and the countdown OSD of 5 minutes will appear. Television is turned off at the end of the time.

7.3.6-Time Zone

Select the **Time Zone** tab by pressing the **Up/Down** navigation buttons in **Timer** menu and select your current time zone with the **Right/Left** navigation buttons.

7.4-Options menu settings

Press the **M** button on your remote control. Select **OPTIONS** by pressing the **Up/Down** navigation buttons and press the **OK** button. You can select the titles for which you would like to perform an operation in this menu by using the **Up/Down** navigation buttons.



7.4.1-Language Settings

Select **Language Settings** from the Options menu and press the **OK** button. The Language Settings menu is displayed. You can adjust the Menu language, Audio language and Subtitle language from this menu. Audio and Subtitle languages can only be selected when they are supported by the broadcaster. Unless you make any selection, the language supported by the broadcaster will be selected automatically. You can select the **Language Settings, Audio Languages, Subtitle Languages** and **Hard of Hearing** tabs and set the desired values by pressing the **Right/Left** buttons. When the Hearing Aid option is set to On, the Subtitles will appear in the language transmitted by the broadcaster if the Broadcasting company transmits Subtitles specifically. If the Hearing Aid is set to Off, the language selected in the subtitle languages option in the menu will be active.

7.4.2-Restore Factory Defaults

You can switch your television back to factory settings with this feature. Select **Restore Factory Defaults** tab and press the **OK** button. Confirmation screen will be displayed. In this screen, you can restore the factory

settings of your television by selecting the **Yes** option with **Right/Left** buttons or cancel this action by selecting the **No** option.

7.4.3-OSD Time Out

With this feature, you can specify the time during which the menu will remain on the display. If you select OFF, menu will be displayed continuously. If other options are selected, menu will remain on the display for the selected time.

7.4.4-PC/HDMI Game Mode

In the Options menu, you can set the **Game Mode** tab to **On/Off** by pressing the **Right/Left** buttons. When the Game Mode is set to On, display settings will return to the default values.

Game Mode becomes active only for PC, HDMI and YPBPR sources. When the Game Mode is set to ON for these sources, picture mode in the Picture menu will switch to the Game Mode. Only colour temperature and backlight settings can be changed in this mode. Game Mode provides a considerable increase in the picture quality when the TV is used as a monitor for game consoles and for displaying the text files. It is advised to turn this mode off when you would like to watch a movie from the above mentioned sources.

7.4.5-Software Update

When a new software is found through OAD (On Air Download) from this menu, it will be installed automatically. Select Software Update tab and press the OK button. Your television will start to search for a new software and perform the software install process if a new software exists.

Note: Do not unplug your television while performing Software Update.

7.4.6-Auto Update

If this option is set to On your television will check for software updates while it shuts down and updates its software if a new software is found. If this option is set to Off, automatic software search is not performed.

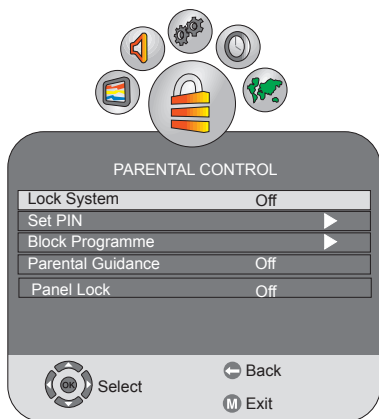
Note: Software Update and Auto Software Update tabs are not displayed in the Analogue mode.

7.4.7-Decoder Setting

You can set the Decoder Settings tab to **On/Off** by pressing the **Right/Left** navigation buttons. When it is set to **ON**, RF signal will be output from the SCART output. This option must be set to **ON** when a Decoder is connected to SCART. When this option is set to **OFF**, RF signal will not be output from the SCART output. This option appears in the menu when the Signal Source is set to SCART. It is not displayed in the menu in other options.

7.5-Parental Control

In the Parental Control menu, you can preclude channels that are not appropriate for children and set age restriction for programmes being broadcasted. Password screen will be displayed when entering this menu. The menu will open only when the correct password is entered. The default password is set as **0000**. You can change the password from the Set PIN menu as you wish.



7.5.1-Lock System

When the Lock System feature is set to **On**, a password is prompted if you want to enter in the **Auto Tuning**, **Digital Manual Tuning**, **Analogue Manual Tuning** and the **Programme Guide** submenus in the **Channel Setup** menu. These menus are not accessible unless the correct password is entered.

7.5.2-Set PIN

You can change your Parental Control password from this menu as you wish. To do this, select **Set PIN** tab and press **OK** button. Set PIN menu will be displayed. Once you enter your new password two consecutive times, your password will be changed.

Note: If you forget your password, you can enter 2356 to unlock the locked channels and specify a new password by reentering to the PIN input menu.

7.5.3-Block Programme

With the Block Programme feature, you can lock the desired channel and prevent it from being viewed unless the correct password is entered. To do this, select **Block Programme** tab from the Parental Control menu by pressing the **UP/Down** navigation buttons and confirm your selection with **OK** button. Block Programme menu will be displayed. Select the channel you want to block from the Block Programme menu with **Up/Down** buttons and confirm with the **GREEN** button on your remote control. A lock symbol will appear next to the channel name. When a blocked channel is selected, the password screen will be displayed and the channel will not appear until the correct password is entered. If you do not enter the password, a lock symbol will be displayed on the screen. There will also be a lock symbol next to the blocked channel in the Programme Guide. Repeat the same steps to remove the blocking.

7.5.4-Parental Guidance


If it is supported by the broadcaster, this feature allows you to enter an age restriction between 4 and 18 for the programmes broadcasted. If the programme to be broadcasted is over the age restriction you entered, the channel will not be displayed and a password screen will appear. To view the programme, correct password must be entered. Enter an age limit between 8 and 18 from the Parental Guidance tab in order to activate this feature.

7.5-Panel Lock

If this feature is turned On, the control buttons on your LCD Television will be locked and will not function. When it is set to off, control buttons will become active.


7.6-Other picture features

7.6.1-Zoom


 Press the **ZOOM** button on your remote control while watching a channel to activate this feature. The image is zoomed in 3 stages oriented to the centre.

Note:Zoom feature is aborted when the channel is changed.

7.6.2-Freeze (Freeze picture)

 You may freeze the programme picture you are watching with this feature. For this, press the **Yellow** button on your remote control. The programme picture will freeze (audio will carry on and still be heard) until the same button is pressed a second time. **Freeze: On**, **Freeze: Off** OSD will appear each time you press the **Yellow** button.

7.6.3-Picture and Teletext (PAT)

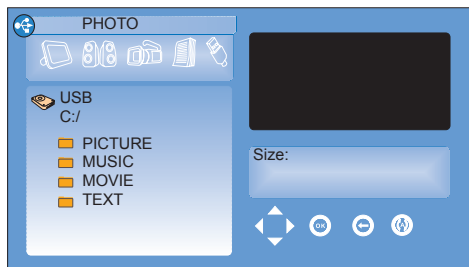
 With this feature, you can follow the teletext broadcasts simultaneously with the current programme, provided that the current programme contains teletext broadcast. For this purpose, when you press **TXT** and then **16:9** buttons in a channel with teletext broadcasting, the screen will be split into two with the left pane showing the currently watched programme and the right pane will show the Teletext at the same time. In the event that you wish to exit the **PAT** mode for any reason, simply press the **TXT** button.



8 USB Mode

In USB Mode, you can view the Photos and Movies and listen to the Music tracks that you loaded to the USB Devices.

Press the **Input Source** button on your remote control to switch to the USB Mode. Select **USB** tab by pressing the **Up/Down** navigation buttons press the **OK** button. USB Mode main screen will be displayed.



In this screen, press **Right/Left** navigation buttons to select one of the **Photo**, **Music**, **Movie**, **Text** and **All Supported** modes and press **OK** button to confirm and access the sub files. When you want to return back to the top menu from the sub menu, just press **←** button.

Note 1: When you connect a device to the USB input while the TV is in a mode other than the USB mode, then USB sign will appear on the screen and the TV will switch directly to the USB mode if you select Yes.

Note 2: You must not disconnect the USB Device from the TV while a file on the USB Device is being read by the TV.

Note 3: USB output supports 1 A current in accordance with the USB standard. Therefore, when an external hard disk is connected to the USB input, this hard disk must be supplied by an external power supply.

Note 4: It may take time to display the folder content when there is too many files in the directory that you wish to display in USB mode.

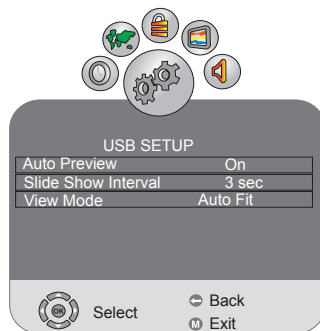
Note 5: Maximum number of the files that can be selected for each mode in USB mode is 100.

Note 6: Picture format cannot be changed in USB mode.

Note 7: If you are using a power cable for the external hard disk that you have connected to the USB source, then the power cable of the hard disk must also be unplugged when the TV is turned off.

Note 8: Source can be changed by pressing the **Input Source** button while viewing the USB source.

In USB mode, Main Menu is displayed when you press the **M** button. USB Settings in the Menu contains **Auto Preview**, **Slide Show Internal** and **View Mode** tabs.



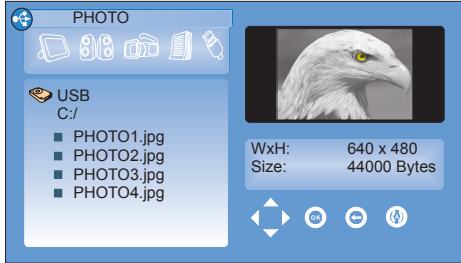
Auto Preview: When it is set to On, you can see the previews of the files in USB Device while you are navigating through them.

Slide Show Time: You can set the switch time for slideshow.

Watch Mode: In this mode the image will be displayed in the selected format.

8.1-Displaying the image files

You can view the photos that you have loaded to the USB Devices in the Photo folder. Select **Photo** folder from the Main menu by pressing the **right/left** navigation buttons and press **OK** button. This action shows the image files in the current directory of the USB memory.



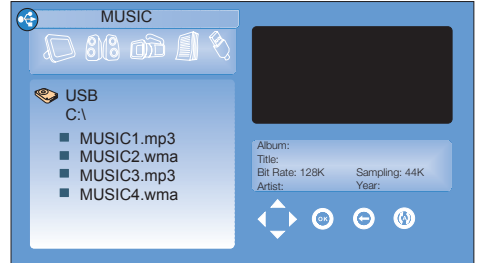
Press **up/down** buttons to select the image files you want to view, tick them with the **OK** button and press the **PLAY** button. Images that you ticked are displayed one by one. If you press the **PLAY** button without ticking any images, all images in the current directory of the USB memory will be displayed one by one. You can rotate the image displayed in clockwise by pressing the **Right** button of your remote control and in counterclockwise by pressing the **Left** button. If you would like your images to be displayed once again, press **Repeat** button on your remote control and select **"A"** to display all image files again or select **"1"** to display only the selected image file. **"X"** option cancels the repeat mode.

Note: In Photo folder, you can only display the image files in .jpg, .jpe, .bmp and .png formats. Other image formats are not supported.

Note: If you press the **I** button while the image is being displayed, then the file name, file size and resolution information are displayed.

8.2-Playing the music files

You can listen to all music that you have loaded to the USB Devices in the Music folder. Select **Music** folder from the Main menu by pressing the **right/left** navigation buttons and press **OK** button. Music files in the directory of your USB memory are displayed.



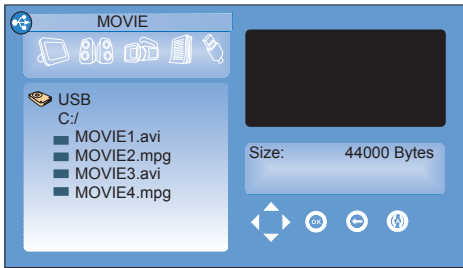
Press **up/down** buttons to select the music files you want to listen, tick them with the **OK** button and press the **PLAY** button. Tracks that you selected are played one by one. If you press the **PLAY** button without ticking any music files, all music in USB memory will be played one by one. You can use the **Track, Chapter Forward/Backward** buttons on your remote control to switch the tracks. You can use the **Fast Forward/Rewind** buttons if you want to move forward or backward in a music file. Each time you press these buttons, fast forward or rewind speed changes as **x2, x4, x8** and **x16**. Simply press the **PLAY** button to stop **Fast Forward/Rewind**. Press the **Repeat** button on your remote control to play the music files again. **"A"** option repeats all music files, **"1"** option repeats the selected track. **"X"** option cancels the repeat mode. Press **←** button to exit the **MUSIC** mode. Music Mode of your product has a Karaoke feature as well. Please place the sound file and the lyrics file which has the same name with the sound file into the same folder to activate this feature. Press **←** button to exit the MUSIC mode.

Note 1: In Music folder, you can only listen to the music files in .mp2, .mp3, .wma, .m4a and .aac formats. Other music formats are not supported.

Note 2: Karaoke feature in the music folder does only support the subtitles in .lrc format.

8.3-Displaying the movie files

You can watch the movies that you have loaded to the USB Devices in the Movie folder. Select **Movie** folder from the Main menu by pressing the **right/left** navigation buttons and press **OK** button. Movie files in the USB memory are displayed.



Press **up/down** buttons to select the movie files you want to view, tick them with the **OK** button and press the **PLAY** button. Movies that you selected are displayed one by one. If you press the **PLAY** button without ticking any movie files, all movies in USB memory will be played one by one. You can use the **Track, Chapter Forward/Backward** buttons on your remote control to switch between two movies. You can use the **Fast Forward/Rewind** buttons if you want to move forward or backward in a movie file. Each time you press these buttons, fast forward or rewind speed changes as **x2, x4, x8** and **x16**. Simply press the **PLAY** button to stop **Fast Forward/Rewind**. Press the **Repeat** button on your remote control to replay the movie files. **“A”** option replays all movie files, **“1”** option replays the selected movie. **“X”** option cancels the repeat mode. Press **←** button to exit the **MOVIE** mode.

Note 1: In Movie folder, you can only view the movie files in .mpg, .mpe, .vob, .dat, .avi, .mp4, .3gp (sound must be coded as AAC) formats. Other movie formats are not supported.

Note 2: Movies in the Movie folder only support the subtitles in .srt format. Names of the subtitle and movie files must be the same. Otherwise, subtitle can not be displayed. If the characters specific to your language is not displayed in the subtitles, then press **M** button and check the selection you made in **MENU->OPTIONS->LANGUAGE SETTINGS->SUBTITLE LANGUGES->PRIMARY** tab.

Note 3: If you press the **I** button while the movie is being viewed, then the file name, file size, resolution and time information are displayed.

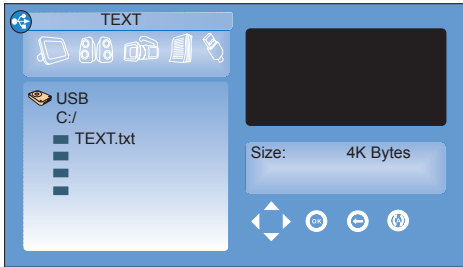
Note 4: If there are more then one audio sources (audio stream) for the MPEG2 files played, then you can switch between the audio sources with the **AUDIO** button while the file is played in full screen mode.

Note 4: It is possible that some files that are supported in USB mode do not operate due to some problems that may arise depending on how such files are created (compression) although they contain the supported file extension.

Note 5: SD video resolutions below 720p are not supported in USB mode.

8.4-Text mode

You can display the text files that you have loaded to the USB Devices in the TEXT mode. Select **Text** folder from the Main menu by pressing the **Right/Left** navigation buttons and press **OK** button. Text folder is displayed.



Press **up/down** buttons to select the text file you want to display and press the **PLAY** button. The text file is displayed. If the text is longer than a page, you can scroll the pages by Up/Down buttons. Press **o** button to exit the **←** mode.

Note: Text folder supports only the text files in .txt format.

8.5-All Supported

In All Supported mode, contrary to other modes, you can view all the file formats which are supported individually in the folders of each mode. Select **All Supported** folder from the Main menu by pressing the **right/left** navigation buttons and press **OK** button. **All Supported** menu is displayed. You can view the **Photo**, **Music**, **Movie** and **Text** files that you have loaded to your USB Devices.

Note: Files displayed in All Supported mode cannot be played in this mode.

9 Teletext

Being one of the most prominent services of broadcasting today, Teletext renders the TV more fruitful. Teletext means in short the transmission of various updated information along with the TV broadcast signal in the form of text and graphics. To be able to receive a quality teletext broadcast, a good antenna system and a broadcast signal that is not weak, with no reflections and interference from other channels are required. Even in a very clear reception, it is normal for some characters or tabs to be lost. Such conditions will automatically be improved in a short time under normal circumstances.

9.1-Entering the Teletext Mode

In order to switch your television to the teletext broadcast, please press the **TXT** button in a programme that has a teletext broadcast. To switch back to the television broadcast, press the **TXT** button for two consecutive times. Once you have switched to the teletext broadcast, the initial page that appears will be the index page. 100 In this page, the titles of the topics in the teletext broadcast and the initial page numbers will appear.



9.2-Page Selection

1 To be able to view the page you would like on the screen, type in the number of that page using the numerical keys. You can see the number you have entered on the left side of the upper title tab. When you would like to turn the pages one by one, you can go to the next page pressing the **Up** navigation button or the **/P+** button and to the previous page pressing the **Down** button or the **/P-** button. Press the **I** button to return to the Index page.

9.3-Teletext image in the TV picture (MIX)

With this feature, you can watch the teletext information and the TV broadcast together. Thus, you can follow the teletext broadcast of the channel while you watch the TV broadcast. To do this, press **TXT** button two times consecutively in a channel with Teletext broadcast.



9.4-Page enlarge button (DOUBLE)

You can view the upper half of the teletext page in an enlarged format by pressing the **DOUBLE** button on your remote control. To be able to view the bottom half of the enlarged page, press the same button for the second time. Once you press the same button the third time, the page will be restored to its normal size.

9.5-Page Stop (STOP)

Some information is laid out in multiple pages and it is broadcast in an automatic cycle mode. For example, on a text of four pages, the pages are indicated with the figures 01, 02, 03 and 04 on the bottom of the page. To view one of these pages for a longer time, press the **STOP** button. When you press the same button again, the cycle continues.

9.6-Subpage selection (SUB)



If the page of text you are viewing contains sub pages the page numbers starting from 01 appear on the screen. You can switch to the sub pages with the **SUB** button. In this case, subpage selection will appear next to the page number in the upper left corner in 0001 format; you can either directly enter the number of the subpage you want to display with number keys or select the subpages one by one by pressing the **RED/**

GREEN buttons. You can exit the sub page by pressing the **SUB** button again.

9.7-Temporary TV Picture (UPDATE)



This button allows you to switch to the television picture while the page you want is being searched in the teletext broadcast eliminating the need to wait during the search. You may switch to the television picture by pressing the **UPDATE** button while Teletext is searching for your desired page. Once the page you want is found, the number of that page appears on the screen.

9.8-Question - Answer Button (REVEAL)



Sometimes, a teletext page contains a hidden answer such as a game or a riddle. Press the **REVEAL** button to disclose the hidden answer.

9.9-Fastext

The coloured buttons on the remote control are for the fastext feature. When you select any page, the titles on various subjects may appear on the screen in four different colours or inside coloured frames (red, green, yellow and blue). By pressing the button pertaining to the relevant colour on the remote control, you can access the subject of your choice without waiting.

Note: The fastext feature is not available for all teletext broadcasts. It is determined by the broadcasting agency whether it is to be broadcast or not.

9.10-Toptext (optional)

There is a topics line in yellow and blue at the bottom of the teletext screen. You can select the relevant topic by pressing the yellow or blue buttons on the remote control. You can select the next page by pressing the red button and the previous page by pressing the green button.

Note: Toptext features are not available in every programme.

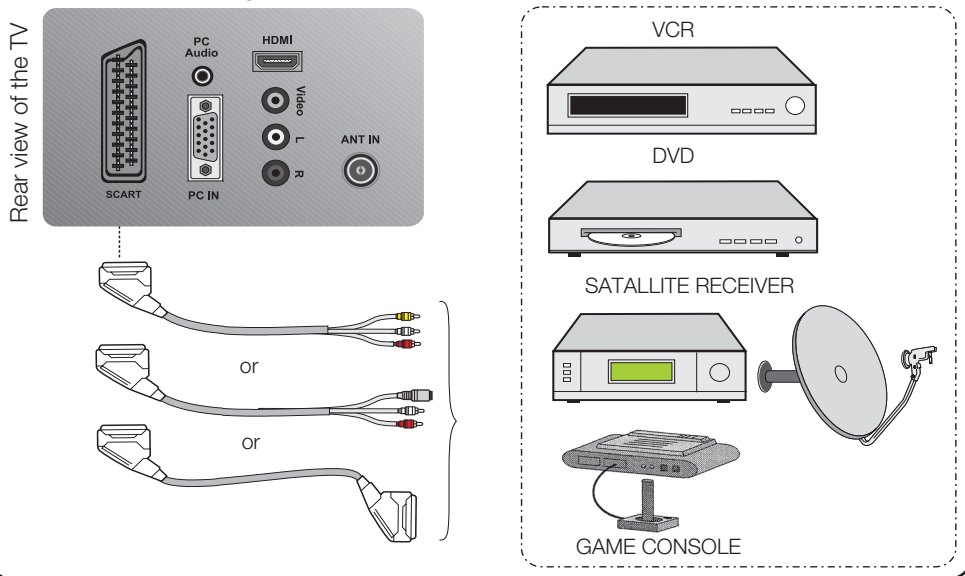
10 External Equipment Connections

Your TV is equipped with 7 inputs including antenna input, which allows for the external device connection. These inputs are:

- 1-Antenna input
- 2-SCART/S-VHS input
- 3-AV input
- 4-PC/COMB input
- 5-HDMI input
- 6-USB input
- 7-CI slot input

You can connect your external device supporting the suitable inputs to your TV via these inputs. By pressing the Change Source button on your remote control, select the external source input to which you connected your device.

10.1-Connecting an external device via Scart connection

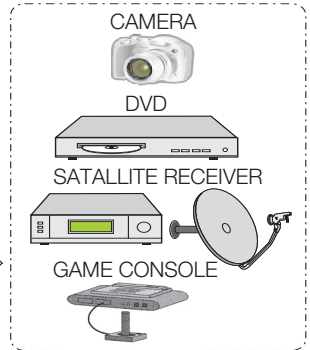
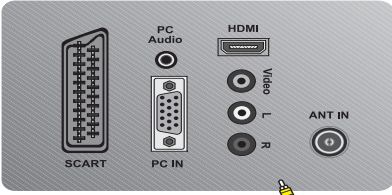


SCART : To watch the picture of the broadcast device connected to Scart, select **Scart** from the **Source** menu and press **OK** button. (You can watch via this Scart if the connected device has a RGB output).

S-Video: To watch the picture of the broadcast device connected using the **SVHS** input over the SCART input by scart converter, select **S-Video** option from the **Source** menu and press **OK** button. Your TV will switch to the selected source.

10.2-Connecting external equipment via AV connection

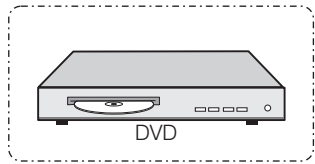
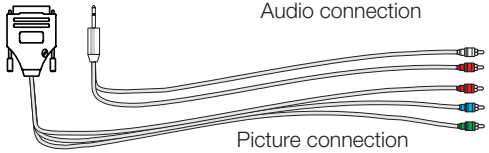
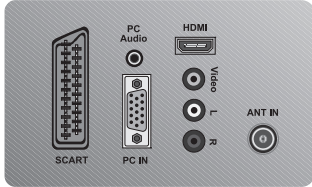
Rear view of the TV



AV : To watch the picture of the broadcast device connected using the RCA (Cinch) input, select AV option from the Source menu and press **OK** button. Your TV will switch to the selected source.

10.3-Connecting an external device via YPBPR connection

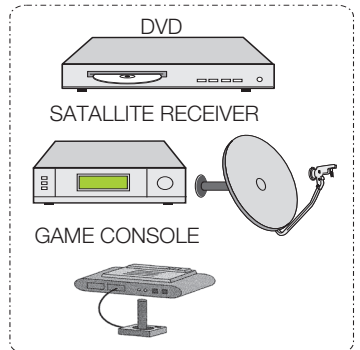
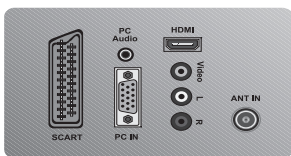
Rear view of the TV



YPBPR (Component Input): When a connection is made via VGA socket with YPBPR, select **YPBPR** option from the **Source** menu and press the **OK** button to display the picture. Your TV will switch to the selected source.

10.4-Connecting an external device via HDMI connection

Rear view of the TV



HDMI: When a connection is made via HDMI socket, select the HDMI input through which you have made the connection from the Source menu and press the **OK** button. Your TV will switch to the selected source.

Connect to the HDMI input at the back of your TV by using the connector located on your PC or your digital video-transmission device with a suitable cable (not supplied with the TV).

Note 1: To be able to watch an image in the HDMI mode, your computer must be equipped with a HDMI graphic card.

Note 2: Please adjust the video card settings of your PC if the PICTURE does not fit to the screen when you transfer the picture to your television from a PC with a DVI to HDMI or HDMI to HDMI cable.

You may display the resolution information by pressing the **I** button.

10.4.1-HDCP

Your TV supports HDCP feature. To use this feature, you must set up a connection to your TV set's HDMI video port and select HDMI by pressing the Change Source button on your remote control.

NOTE: In HDMI mode; some resolutions are supported when a DVI to HDMI converter cable from a PC is used. Only 16:9, 4:3, 14:9 (some definitions) are supported as picture format.

10.4.2-High Definition - HD-READY



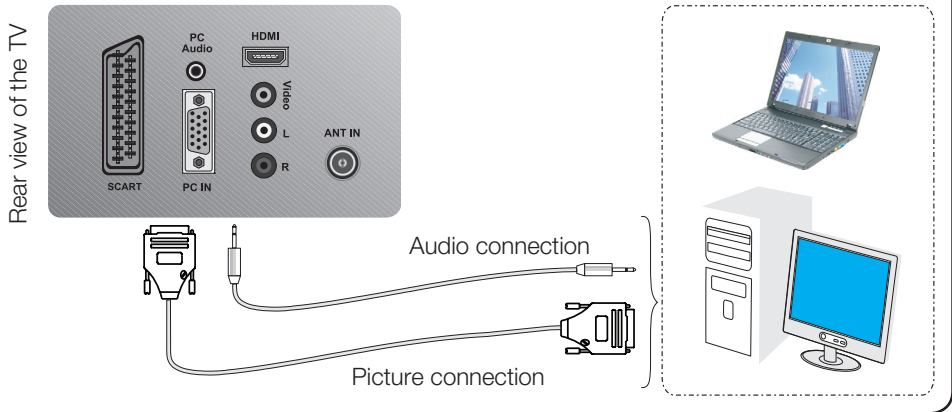
Your television can receive high-definition signals (HDTV). You can connect the input sources (HDTV set-top box or HDTV DVD player) to the (HDMI) socket (digital HDTV signal). This ensures that you can view digital HDTV programmes, even if they are copy-protected (HDCP High-Definition Copy Protection).

10.5-USB connection



USB: To view the picture and listen to the music from the USB devices that are connected through the USB input, USB symbol appears on the screen when you connect your USB device to your television. Select YES and press OK button to switch your television to the USB mode automatically. To switch to the USB mode in any source mode when the USB input is connected, press Input Source button to select the USB tab and confirm with **OK** button.

10.6-PC connection



10.6.1-PC Connection:

Connect the D-Sub15 connector to the **PC-IN** input on the rear of your television using a suitable cable (not supplied with the television). Again using a suitable cable, you can also listen to the sound from your PC by connecting the sound output of your PC to the **AUDIO-IN** input on the rear of your television. You can adjust the volume of the source with **V+/V-** buttons.

10.6.2-Transition to the PC mode

For your LCD-TV to switch to the monitor (PC) mode, press the Change Source button on your remote control. **SOURCE** menu will be displayed. Select **PC** by pressing the **Up/Down** navigation buttons and press the **OK** button.

10.6.3-PC Access Setting

Enter into the **CHANNEL SETUP** menu from the Main Menu by pressing the **M** button in the PC mode. In order to make the necessary settings in this menu, you can select the headings with the **Up/Down** buttons on your remote control to perform the following monitor-related settings.

10.6.4-Auto Adjust

The most suitable geometric settings in accordance with the entry mode are configured by this function. For this operation, just select the **Auto Adjust** tab and press **OK** button.

10.6.5-Horizontal Position: Horizontal position setting.

10.6.6-Vertical Position: Vertical position setting.

10.6.7-Size:This is the pixel clock frequency. User can narrow down or enlarge the display by selecting a desired value.

10.6.8-Phase: Using the **Right/Left** navigation buttons, you can ensure that the colours and shapes are exactly consolidated on the PC image.

10.6.9-PICTURE FORMAT

You can select the PC image to be displayed in 16:9 or 4:3 formats.

10.7-Headphone Connection (optional)

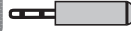
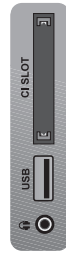
The headphones must have impedance between 8 and 32 ohms and have a 3.5 mm

stereo jack plug. Plug the headphone jack into the headphone socket of the TV.

Side view of the TV

10.8- Inserting the

CI (Common

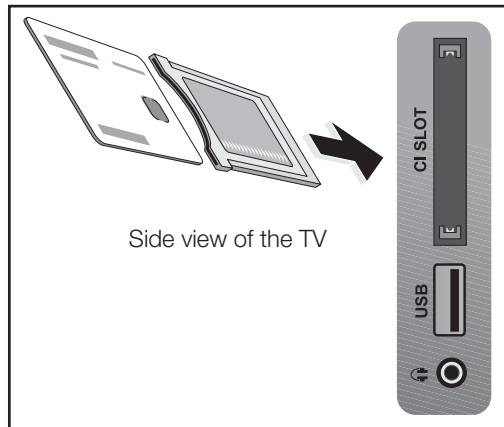


Interface) card

CI module and Smart card allows you to view some scrambled (paid) channels in Digital TV mode. When no CI module is inserted in your television, you can only view the current unscrambled digital/analog channels.

10.8.1-Inserting the CI Module and Smart card

You can not use the smart card in your television independently. You will need a CAM module to use the smart card. Insert your smart card into the CAM module and then insert the CAM Module into the CI slot on your television. When you insert the module correctly, **CA Module Inserted** appears on the screen and the menu for this module is displayed.



10.8.2-Removing the CI Module and Smart card

When removing the Smart card, make sure that you pull the CAM module out completely with the card inserted. **CA Module Removed** will appear on the screen.

11 Help and tips

Failure	Possible cause	Solution
The television does not function	Is the power cord connected to the mains supply?	Check the power cord.
	Is the Power On/Off button on?	Check if the On/Off button is on.
Poor picture quality	Is the antenna cable connected?	Check the antenna cable.
	If you are using a satellite antenna, is it well adjusted?	Have the antenna adjusted.
	Aerial may be affected by two connected external devices.	Try disconnecting one of the devices.
	It may need fine tuning.	Perform fine tuning.
	Picture settings are not correct.	Adjust Brightness, Contrast and Colour.
Shadow and reflection in the picture.	Channel setting	Perform automatic, manual channel setting or fine tuning.
	Antenna	Check antenna cable and system
No picture	Is there any damage to the antenna cable?	Check the antenna cable.
	Are you sure you pressed the correct button on your remote control?	Press the P+ or P- button to turn on the TV.
No colour.	Colour intensity level is at the lowest setting.	Lighten the colour.
	Broadcast system setting (if setting choice is available)	Select the broadcast system.
	Problem in channel broadcasting.	Test with another channel.
No or defective teletext	Television channel (no teletext) or antenna system.	Test another channel for fine tuning and shadowy pictures
	Very weak signal	Check the antenna system.
No sound	Temporary sound mute may be on	Try pressing the mute button
	Is the sound turned down?	Turn on the volume with V + button.
Remote control does not work	Are the batteries correctly placed?	Place the batteries correctly.
	Are batteries exhausted?	Replace the batteries with new ones.
	Is there any obstacle between the remote control and television?	If yes, remove it.
Picture is not readable after turning on the TV	Child lock is active.	Disable the child lock.

If your television does not work properly even though you tried the above mentioned solutions, try turning it on and off again. If you cannot start your television even though you have applied all noted methods, refer to the dealer or authorised service from where you purchased the product. Never attempt to repair a faulty device yourself.

12 Technical Specifications Chart

SCREEN SIZE	15.6"	18.5"	21.6"	22"
Panel type	15.6", 16:9 Active matrix TFT	18.5", 16:9 Active matrix TFT	21.6", 16:9 Active matrix TFT	22", 16:9 Active matrix TFT
Sound output	2x3 W	2x3 W	2x3 W	2x3 W
Power consumption	24 W	30 W	45 W	50 W
Stand by power value	<1 W	<1 W	<1 W	<1 W
Scart / S-VHS input	Standard	Standard	Standard	Standard
Audio/Video RCA input	Standard	Standard	Standard	Standard
HDMI input	Standard	Standard	Standard	Standard
VGA / COMB input	Standard	Standard	Standard	Standard
PC / COMB Audio input	Standard	Standard	Standard	Standard
Headphone input	Optional	Optional	Optional	Optional
USB Input	Standard	Standard	Standard	Standard
CI Slot Input	Standard	Standard	Standard	Standard

General technical specifications

Power supply AC:

220-240 V ~ 50-60 Hz

Power supply DC:

12V (*)

Program memory Analog:

100

Program memory Digital:

200

RF Aerial input:

75 Ohm (Co-axial)

Loudspeaker impedance:

8 Ohm

Sound systems:

Mono / Stereo

Batteries:

2xUM - 4, IEC R03 or AAA 1.5V

Channels received:

VHF (Band I Channel 2-4)

VHF (Band III Channel 5-12)

UHF (Channel 21-69)

Cable TV (S1-S20/S21-S41)

Supported Movie Formats:

MPEG1, MPEG2, MPEG4 (mpg, mpe, vob, dat, avi, mp4, 3gp (sound must be coded as AAC)

Supported Subtitle Formats:

Video SRT, Audio LRC

Supported Image Formats:

JPG, BMP, PNG

Supported Music Formats:

MP3, AAC, WMA

Supported Text Formats:

TXT

Supported Video Codec:

MPEG1, MPEG2, MPEG4 SD

Supported Audio Codec:

MPEG(mp1&mp2), MP3, AAC, AC3

Note 1: Your television supports movie files in standard picture formats. Maximum supported movie file resolution is 720x576 pixel. Movie files with a resolution above this value are not supported.

Note 2: Maximum supported resolution for compressed files in JPEP Progressive format is 1024x768. Resolutions above this value are not supported.

Note 3: Your television has been manufactured in accordance with the system available in your country and this system cannot be changed by the user except as described below: In countries where BG/DK and BG/LL' broadcasts are made (BG or DK / BG and LL'). For further information, see the settings section for your television.

(*): These features are optional and may not be available on all models.

Design and specifications may be changed without prior notification.