

18,5" / approx. 47 cm LCD-TV **MEDION**[®] with DVD-Player and DVB-T Tuner

MEDION[®] P12012 (MD 20103)



Instruction manual

Contents

Features	3	Digital Teletext (** for UK only)	21
Accessories	3	Analogue Teletext	21
Introduction.....	4	Widescreen	21
Preparation.....	4	IDTV Menu System	22
Safety Precautions	4	Channel List.....	22
Power Source	4	Navigating the Entire Channel List	22
Power Cord.....	4	Moving the channels in the channel list.....	22
Moisture and Water	4	Deleting the Channels in the Channel List.....	22
Cleaning.....	4	Renaming Channels	23
Heat and Flames	4	Adding Locks to Channels.....	23
Lightning.....	4	Setting Favourites.....	23
Replacement Parts	5	How to Add a Channel to a Favourites	
Servicing.....	5	List.....	24
Waste Disposal.....	5	Removing a Channel from Favourite	
Information for Users in European Union		List.....	24
Countries	5	On Screen Help	24
Disconnecting the Device	5	Program Guide	24
Headphone Volume	5	Timers.....	24
Installation.....	5	Conditional Access	24
LCD Screen	5	TV Setup.....	25
Warning	5	Setup	25
Overview of the Remote Control	6	Configuration	25
LCD TV and Operating Buttons.....	7	Dolby Digital (* for EU countries only)	25
Viewing the Connections- Back Connectors	8	Hard of Hearing (* for EU countries	
Viewing the Connections - Side Connectors	10	only).....	25
Power Connection	11	Favourite Mode.....	25
Aerial Connection	11	Channel List	25
Connecting the LCD TV to a PC.....	12	Active Antenna	26
Connecting to a DVD Player.....	13	Scan Encrypted (**)... ..	26
Using Side AV Connectors	14	Receiver Upgrade	26
Using Other Connectors	15	Over Air Download (OAD)	26
Connecting Other Equipment via Scart	16	Parental Control	26
Inserting Batteries in the Remote Control		Maturity Lock (*).....	26
Handset	17	Menu Lock	27
Operating Range for the Remote Control.....	17	Set PIN.....	27
Switching the TV On/Off	17	Time Settings	27
To Switch the TV On.....	17	Audio Description (Optional).....	27
To Switch the TV Off	17	Audio Description (Optional)	27
Input Selection.....	18	Preferred Language (Optional).....	27
Basic Operations	18	Relative Volume (Optional).....	27
Operation with the Buttons on the TV.....	18	Standby Search (*)	27
Volume Setting.....	18	Language	28
Programme Selection	18	Preferred.....	28
Viewing Main Menu.....	18	Language Settings	28
AV Mode	18	Installation.....	28
Operation with the Remote Control	18	Automatic Channel Scan.....	28
Volume Setting.....	18	Manual Channel Scan	29
Programme Selection (Previous or Next		Clear Service List (*).....	29
Programme).....	18	First Time Installation.....	29
Programme Selection (Direct Access)	18	Navigating the Analogue TV Menu System	30
Initial Settings	19	Analogue TV Menu System.....	31
General Operation.....	20	Picture Menu.....	31
Information Banner	20	Mode	31
Electronic Programme Guide (EPG)	20	Brightness/Contrast/Colour/Sharpness/	
Displaying Subtitles	21	Hue	31

Colour Temp.....	31	Source Menu	36
Noise Reduction	31	Mute Function.....	37
Film Mode	31	Picture Mode Selection.....	37
Game Mode (optional)	31	Freezing Picture	37
Picture Zoom	31	Zoom Modes.....	37
Store	31	Auto	37
Reset	31	16:9.....	37
Sound Menu	32	4:3.....	37
Volume.....	32	Panoramic.....	37
Equalizer.....	32	14:9.....	37
Balance.....	32	Cinema	37
Headphone.....	32	Subtitle.....	38
Volume.....	32	Zoom.....	38
Sound Mode (optional)	32	Teletext.....	38
AVL.....	32	Tips.....	39
Spdif Out.....	32	Screen Care.....	39
Effect.....	32	Image Persistence.....	39
Store	33	No Power	39
Feature Menu	33	Poor Picture.....	39
Sleep Timer.....	33	No Picture.....	39
Child Lock.....	33	Sound	39
Language.....	33	Remote Control.....	39
Default Zoom.....	33	Input Sources.....	39
Blue Background	33	Appendix A: PC Input Typical Display Modes.....	40
Menu Background.....	33	Appendix B: AV and HDMI Signal Compatibility	
Backlight	33	(Input Signal Types).....	41
Teletext Language	33	Appendix C: Pin Specifications.....	42
Ext Out.....	33	SCART connector pin specifications	42
HDMI PC Full Mode (optional).....	33	HDMI connector pin specifications	42
Install Menu	34	Signal Input.....	42
Program	34	PC RGB Terminal (D-sub 15-pin	
Band	34	connector).....	42
Channel	34	Specifications	43
Colour System	34	Important Instruction.....	44
Sound System	34		
Fine Tune.....	34		
Search	34		
Store	34		
Install Menu in AV Modes.....	34		
Colour System.....	34		
Store	34		
Program Table.....	34		
Name.....	35		
Move.....	35		
Delete.....	35		
APS (Auto Programming System).....	35		
Country	35		
Source Menu	35		
PC Mode Menu System.....	36		
PC Position Menu	36		
Autoposition	36		
H (Horizontal) Position.....	36		
V (Vertical) Position	36		
Phase.....	36		
Dot Clock	36		
PC Picture Menu.....	36		
Sound Menu	36		
Feature Menu	36		

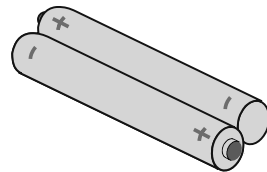
Features

- Remote controlled colour LCD TV.
- Fully integrated digital TV (DVB-T).
- HDMI connectors for digital video and audio. This connection is also designed to accept high definition signals.
- USB input.
- 200 programmes from VHF, UHF(analogue).
- 300 programmes for digital mode (IDTV).
- 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 mute when no transmission.
- NTSC playback.
- AVL (Automatic Volume Limiting).
- When no valid signal is detected, after 5 minutes the TV switches itself automatically to standby mode.
- PLL (Frequency Search).
- PC input.
- Plug&Play for Windows 98, ME, 2000, XP, Vista.
- Audio line out.
- Game Mode (optional).
- Active antenna power (optional).

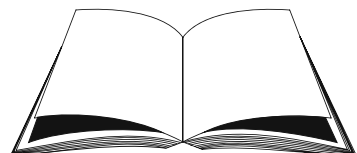
Accessories



Remote Controller



Batteries
2 X AAA



Instruction Book

Introduction

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

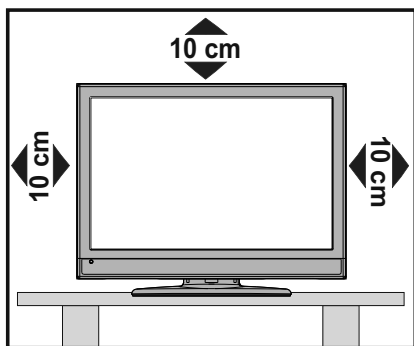


Please do keep this manual in a safe place for future references.

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

Please 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 adaptor 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.

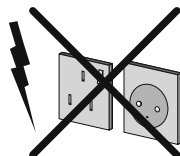
Heat and Flames

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.

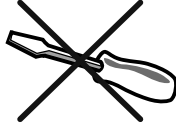


Replacement Parts

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.
- Cold cathode fluorescent lamp in LCD PANEL contains a small amount of mercury; please follow the local laws or regulations for disposal.

Information for Users in European Union Countries

This symbol on the product or on its packaging means that your electrical and electronic device should be disposed at the end of its service life separately from your household wastes. There are separate collection systems for recycling in EU.



For more information, please contact the local authority or the dealer where you purchased the product.

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

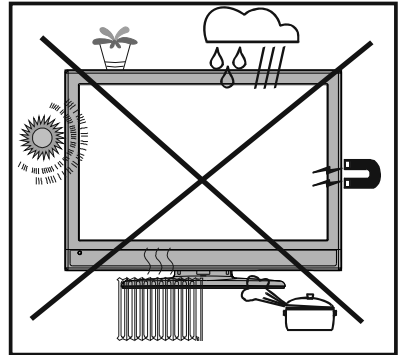
To prevent injury, this device must be securely attached to the wall in accordance with the installation instructions when mounted to the wall (if the option is available).

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.

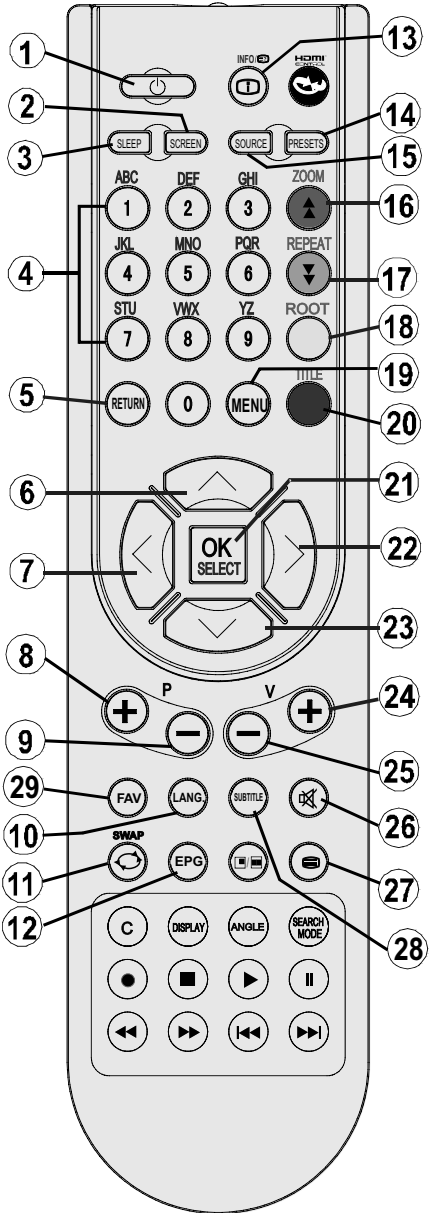
Warning

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



Overview of the Remote Control

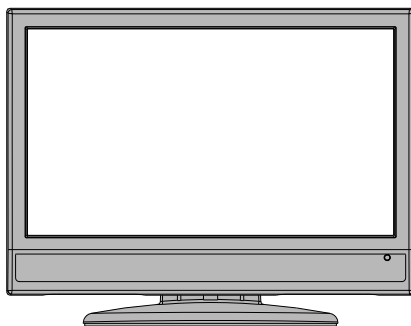
1. Standby
2. Image size
3. Sleep timer
4. Numeric buttons
5. Return / TXT Index
6. Cursor up / TXT up page
7. Cursor left
8. Programme up
9. Programme down
10. Mono-Stereo / Dual I-II
11. Swap
12. Electronic programme guide (in DTV mode)
13. Info / TXT reveal
14. Picture mode selection
15. Source selection
16. Red / Sound / Page up (in DTV mode)
17. Green / Picture / Page down (in DTV mode)
18. Yellow / Feature / Current language (in DTV mode) (*)
19. Menu
20. Blue / Install
21. OK / Select
22. Cursor right / TXT Subpage
23. Cursor down / TXT Downpage
24. Volume up
25. Volume down
26. Mute
27. Teletext / Mix
28. Subtitle (in DTV mode) / TXT Subtitle
29. FAV (Favourite Selection)(in DTV mode)



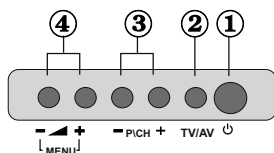
(*) Only available for EU country options.

Note: Buttons that are not indicated with a number on the remote control illustration are not functional in TV mode.

LCD TV and Operating Buttons

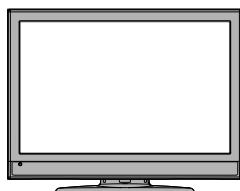


FRONT VIEW



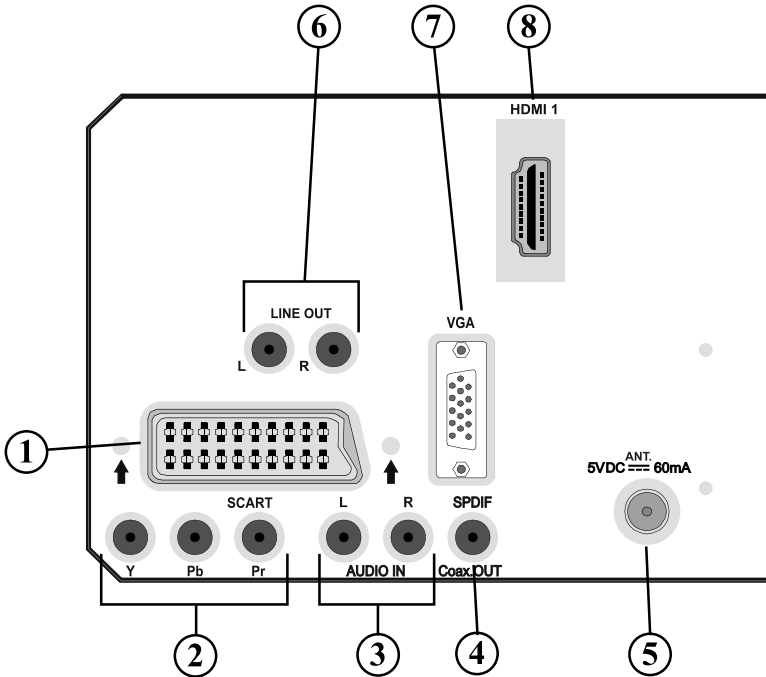
1. STANDBY button
2. TV/AV button
3. Programme Up/Down buttons
4. Volume Up/Down buttons

Note: Press "▲+"/"▶+" buttons at the same time to view main menu.



REAR VIEW

Viewing the Connections- Back Connectors



1. SCART socket inputs or outputs 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.

2. 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.

3. 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.

4. S/PDIF Out outputs digital audio signals of the currently watched source.

Use an **S/PDIF coaxial cable** to transfer audio signals to a device that has S/PDIF input. *You should also set SPDIF Out option in the Sound Menu as On.*

5. RF Input connects to an antenna or a cable.

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.

6. Audio Line Outs output audio signals to an external device such as an optional sound system.

To connect the external amplifier to your TV, use **AUDIO LINE OUTS** of the TV with an audio cable. *Note: Line out feature cannot be used while in HDMI source. You can use SPDIF instead.*

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.

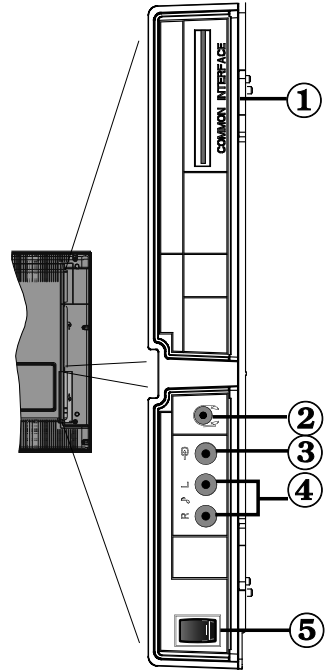
8. HDMI 1 : HDMI input

HDMI Input is for connecting a device that has an **HDMI** socket.

Your LCD Television is capable of displaying High Definition pictures from devices such as a High Definition Satellite Receiver or DVD Player. These devices must be connected via the HDMI sockets or Component Socket. These sockets can accept either 480i, 480p, 576p, 576i, 720p, 1080i, 1080p (Optional) signals. No sound connection is needed for an HDMI to HDMI connection.

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. 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).
3. Video Input 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.
4. Audio Inputs are used for connecting audio signals of external devices. Connect the audio cable between the AUDIO INPUTS on the TV and the AUDIO OUTPUT jacks on your device.
Note: If you connect a device to the TV via the VIDEO INPUT, you should also connect your device with an audio cable to the AUDIO INPUTS of the TV to enable audio.
5. Standby switch is used for turning the TV on or off.



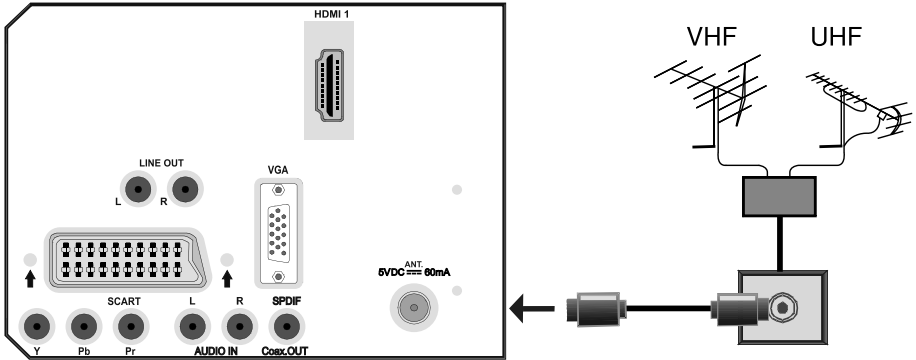
Power Connection

IMPORTANT: The TV set is designed to operate on 220-240V 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.



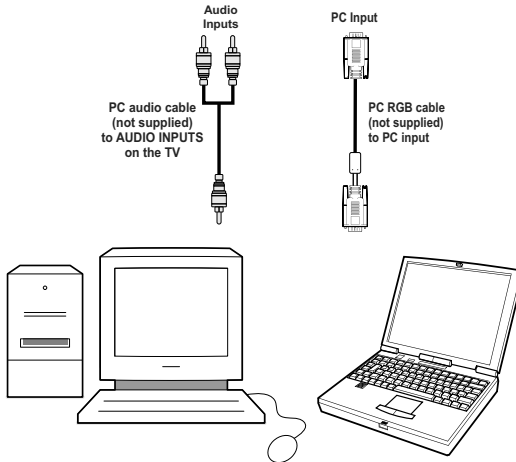
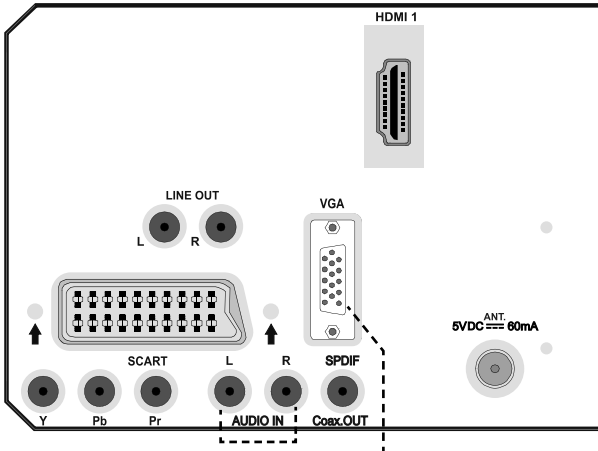
REAR VIEW

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.

REAR VIEW



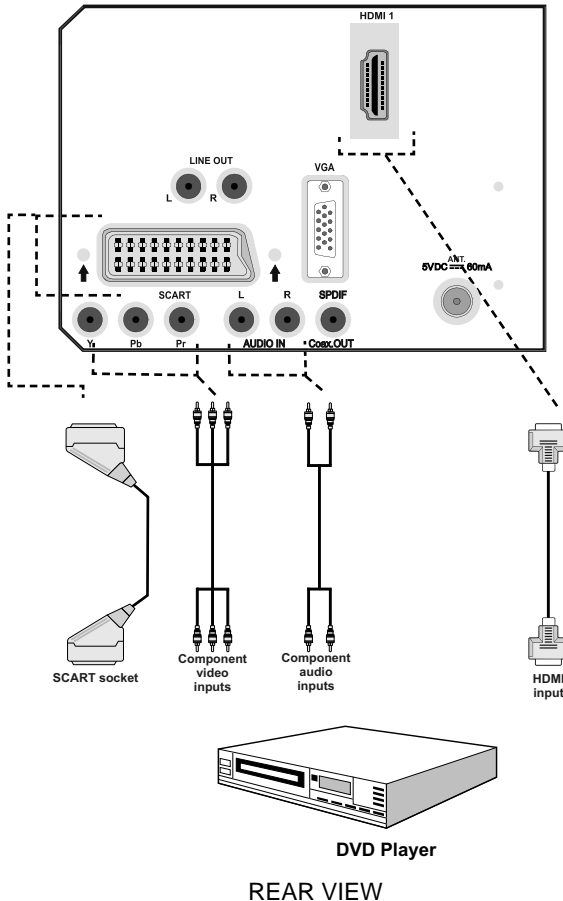
Connecting to a DVD Player

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 socket. Use a SCART cable as shown below.

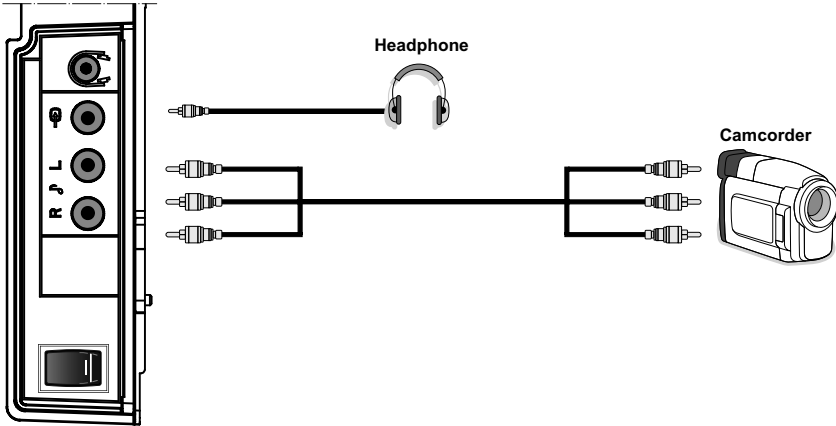
Note: These three methods of connection perform the same function but in different levels of quality. It is not necessary to connect by all three methods.



Using Side AV Connectors

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

- 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.

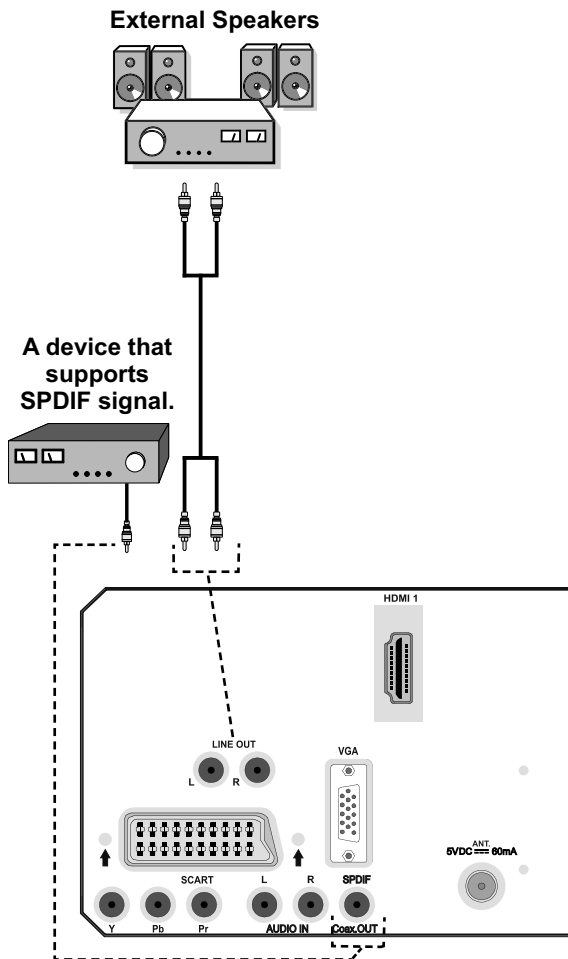


SIDE VIEW

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.

- To connect external amplifier, use an audio cable. Do not reverse the AUDIO LEFT and AUDIO RIGHT jacks. Turn on the LCD TV and external amplifier set after all connections are made. Refer to your amplifier set's manual for further queries.
- For connecting a to a device that has SPDIF support, use an appropriate SPDIF cable to enable sound connection. You should also set SPDIF Out option in the Sound menu as On.



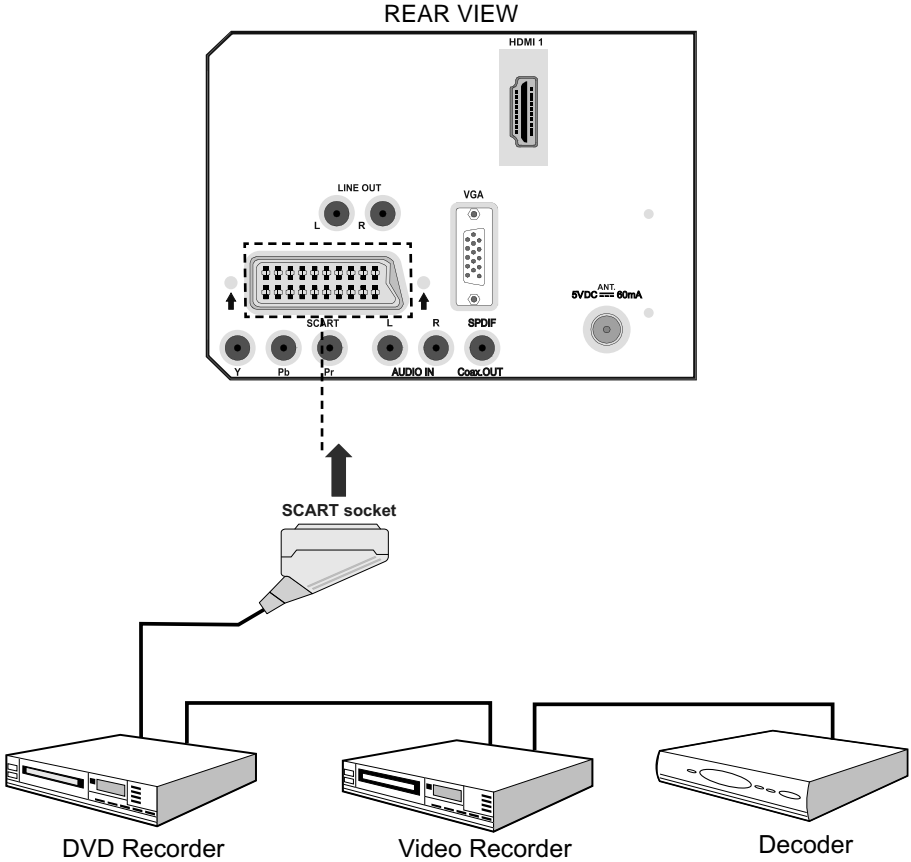
REAR VIEW

Connecting Other Equipment via Scart

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

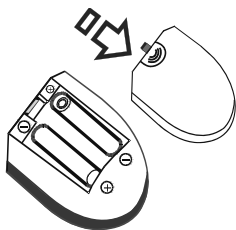
Power off both the TV and the devices before making any connections.

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



Inserting Batteries in the Remote Control Handset

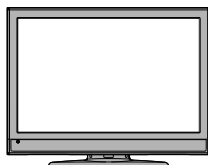
- Remove the battery cover located on the back of the handset by gently pulling backwards from the indicated part.
- Insert two **AAA/R3** or equivalent type batteries inside. Place the batteries in the right directions and replace the battery cover.



Note: Remove the battery from remote control handset when it is not to be used for a long period. Otherwise it can be damaged due to any leakage of batteries.

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 220-240V AC, 50 Hz.
- Switch the “**I**” button to position “**I**” so the TV will switch to standby mode. Then the standby LED lights up.
- To switch on the TV from standby mode either:
 - Press the “**O**” button, **P/CH+ / P/CH-** 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.

Note: If you switch on your TV via standby button on the remote control, the programme/source that you were watching last will be reselected.

By either method the TV will switch on.

To Switch the TV Off

- Switch the “**I**” button to position 2 as illustrated, (②) so the TV will switch off.
- **To power down the TV completely, unplug the power cord from the mains socket.**

Note: When the TV is switched to standby mode, standby LED can blink to indicate that features such as Standby Search, Over Air Download or Timer is active.

Input Selection

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

- Press **"SOURCE"** button on your remote control for directly changing sources.

or,

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

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



Basic Operations

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

Operation with the Buttons 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 **"▲+/-▲"** buttons at the same time to view main menu. In the Main menu select sub-menu using **"P/CH -"** or **"P/CH +"** buttons and enter 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.
- Functions of the menu system are described in the following sections.

Volume Setting

- Press **V+** button to increase the volume. Press **V-** 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 10 - 299 (for IDTV) or 10-199 (for analogue), press the numeric buttons consecutively (e.g. for programme 27, first press 2 and then 7). When the pressing time is due for the second numeric button, only the first digit programme will be displayed. The limit of the delay time is 3 seconds.
- Press directly the programme number to reselect single digit programmes.

Initial Settings

When the TV set is operated for the first time, the IDTV turns on first.

Because this is the first time the TV is used, there are no channels stored in the memory.

When the TV is turned on for the first time, the menu for the language selection appears on the screen. The message "Welcome please select your language!" is displayed in all language options sequentially in the OSD.

By pressing the "▼" or "▲" buttons highlight the language you want to set and press OK button. After then, "First time installation" OSD will appear on the screen. By pressing "◀" or "▶" buttons, select the country you want to set and press OK button (* for EU countries).



Note: Country selection OSD will not be available for UK.

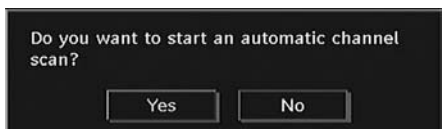
After then, the active antenna selection OSD appears on the screen:

By pressing "◀" or "▶" buttons, set active antenna mode as on or off.



If an active antenna is connected to your TV, you can select this option as On. Antenna power should be "Off" when standard antenna is used instead of the active antenna. See Configuration Menu in the following sections for more information.

Press OK button on the remote control to continue and the following message will be displayed on the screen:



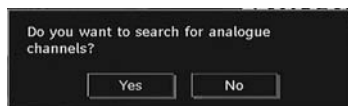
To start installation process, select "Yes", to cancel select "No".

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

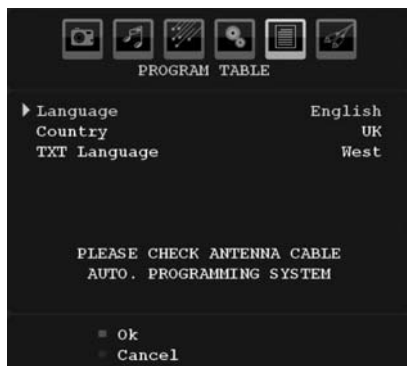
The IDTV will automatically tune to the UHF or VHF(*) (* for EU countries) transmission channels, searching for digital terrestrial TV broadcasts and displaying the names of channels found. This process will take about a few minutes.



After Automatic Search is completed, the following message asking for analogue channel search appears on the screen:



To search for analogue channels, select "Yes". TV switches to the analogue TV mode. The menu below is displayed to search for analogue channels:



Select your Country, Language and Text language by using "◀" or "▶" and "▼" or "▲" buttons. Press OK or RED button to continue. To cancel, press the BLUE button.

For more information on this process, see "Install Menu" section.

Note: For proper functioning of digital teletext in DTV mode, you should set country as UK in analogue AUTO PROGRAM (for UK broadcasts only).

Do not turn off the TV while initializing first time installation.

General Operation

Press the “**SOURCE**” button on the remote control and select DTV/USB to switch the TV set to digital terrestrial television broadcasting.

Information Banner

- Whenever you change channel, using the **P- / P+** button or the numeric buttons, the TV displays the broadcast picture along with an information banner at the bottom of the screen (available only in DTV mode). This will remain on the screen for a few seconds.
- The information banner can also be displayed at any time while watching TV by pressing the **INFO** button on the remote control:

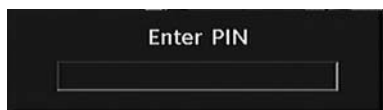


The information banner gives information on the channel selected and the programmes on it. The name of the channel is displayed, along with its channel list number.

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.

- Icons are also displayed in the information banner and if this channel is a favourite channel, favourite channel icon will also be displayed.

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



Electronic Programme Guide (EPG)

- Some, but not all, channels send information about the current and next events.
- Please note that event information is updated automatically. If there is no event information data available in channels, EPG will be displayed with blanks.
- Press **EPG** button to view the EPG menu.
- Electronic Programme Guide appears on the screen. It is able to get Information of the channel - programs weekly by means of 7-DAY-EPG. All programs of channels are displayed. The current program is highlighted and there is brief information about the programs of the channel, such as: name, short/extended event description, start & end time. The time scale can be changed by pressing left or right buttons. If there is any event information data available, only programme names and dates are displayed. On the bottom of the screen; info bar, showing all the available commands, will be displayed.



RED button (Shrink): makes the info boxes smaller.

GREEN button (Expand): makes the info boxes larger.

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

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

INFO (Details): displays the programmes in detail.

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

OK : views options for future programmes.

SWAP : jumps to the current broadcast.

- Press “**0**” button on the remote control to view Guide Search menu. Using this feature, you can search the programme guide database in accordance with the genre selected or with name match. Info available in the programme guide will be searched and results matching your criteria will be listed. You can select programmes or set timers by highlighting a channel and then pressing OK button.


Note: Searching process can be performed by the desired date rate or by the channel basis.

Displaying Subtitles

With digital terrestrial broadcasting (DVB-T), some programmes are broadcast with subtitles. Subtitles can be displayed while watching these programmes.

Press the “**MENU**” button to display the main menu, highlight the **Setup** and then **Language** menu using “**▼**” or “**▲**” button and press the **OK** button to display the “Language settings” menu.

Highlight the “Subtitle” item in “Language settings” menu and use **◀** or **▶** button to set Subtitle to the desired language.


If “Subtitle” is on and a language option is set, pressing the  button causes the following warning message display on the screen (** for UK only):



Digital Teletext (** for UK only)



With digital terrestrial broadcasting (DVB-T), in addition to pictures and sound, you can also view digital teletext.

Digital teletext is sometimes broadcast at the same time with the normal broadcasting.

- Press the  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 “**SELECT**” 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.

Widescreen

Depending on the type of the broadcast being transmitted, programmes can be viewed in a number of formats. Press the “**SCREEN**” button repeatedly to select between Auto, 16:9, 4:3, Panoramic, 14:9, Cinema, Zoom or Subtitle.

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

***PLEASE NOTE:** Menu size changes depending on the chosen image size.*

IDTV Menu System

The IDTV menu can only be viewed when watching digital terrestrial broadcasting. Use the “SOURCE” button to select DTV mode.

Press the “MENU” button. The menu below appears on the screen:



Channel List

Using the “▼” or “▲” button on the remote control, make sure that the first item, Channel List, is highlighted and press the OK button to display the Channel List.

The following operations can be performed in this menu:

- Navigating the entire list of channels
- Deleting channels
- Renaming channels
- Adding locks to channels
- Setting favourites
- Moving channels

Channel List is the place where the channels are managed.



Navigating the Entire Channel List

Press “▼” or “▲” button for selecting the previous or next channel. You can press **RED** or **GREEN** button to move page up or page down.

To watch a specific channel, highlight it using “▼” or “▲” button and then press “OK” button, while the “Select” item on Channel List menu is highlighted by using “◀” or “▶” button.

Then the name and number of the selected channel will be displayed in the top-left and top-right of the channel display at the top-right of the screen, respectively.

Moving the channels in the channel list

- Press “▼” or “▲” buttons to select the channel that will be moved.
- Press “◀” or “▶” buttons to select the “Move” item on Channel List menu.

Following OSD will be displayed next to “OK” item to indicate that enter a number by using the numeric buttons on the remote control and press “OK” to confirm.

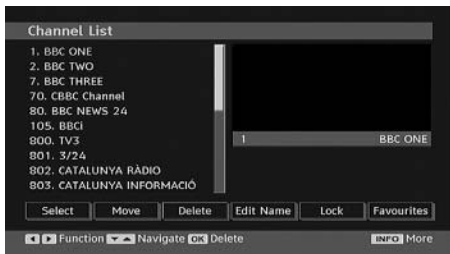


Note: If you enter the same programme number of the channel that you want to move, “... channel services will be replaced. Do you want to continue?” OSD will be displayed. Press OK to confirm or select “No” to cancel.

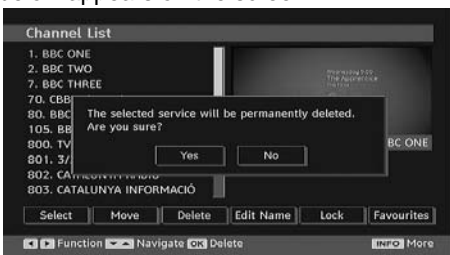
Deleting the Channels in the Channel List

- Press “▼” or “▲” button to select the channel that will be deleted.
- Press “◀” or “▶” button to select the “Delete” item on Channel List menu. As seen on Channel List menu, **SELECT** is displayed next to Delete item at the bottom of the screen to indicate that you must press the **OK** button to

delete the highlighted channel in the channel list.



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



- Press “◀” or “▶” button to highlight the desired option. If **OK** button is pressed while “**Yes**” is highlighted, the highlighted channel is deleted. Selecting “**No**” cancels the deletion.

Renaming Channels

To rename a specific channel, the channel must be highlighted by pressing “▼” or “▲” button. Then highlight the **Edit Name** item by pressing “◀” or “▶” button as illustrated below. Press the **OK** button to activate the rename feature.



Now 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.

Press the “**M**” button to cancel the editing or **OK** button to save the new name.

Adding Locks to Channels

Channel locking provides a password-protected access to channels selected by parents. In order to lock a channel you should know the parental lock password (default value is set to 0000 in the factory and can only be changed from the Configuration menu).

Select the channel to be locked by highlighting it and select the Lock option by pressing “◀” or “▶” button. When the **OK** button is pressed, a dialog OSD asking for the password will be displayed.



Enter the password by using the numeric buttons on the remote control. The lock icon “🔒” will now be displayed next to the selected channel. Repeat the same operation to cancel the lock.

Setting Favourites

You can set various channels as favourites so that only the favourite channels are navigated. To set a favourite you should highlight the “Favourites” item at the bottom of the Channel List menu.

To set a favourite you should highlight the “Favourites” item at the bottom of the Channel List menu. Then press **OK** button and Edit Favourite List menu appears on the screen.

You can list your favourite channels using Favourite List.

Channel list OSD will look like this:



How to Add a Channel to a Favourites List

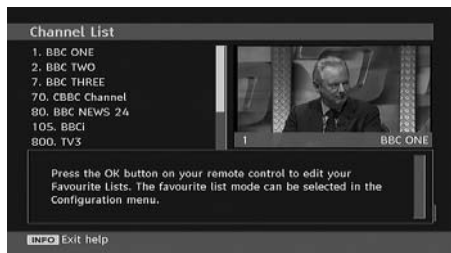
- By pressing “▼” or “▲” buttons, highlight the channel that you want to add to the favourite list.
- By pressing OK button, the highlighted channel is added to the Favourite List.
- F icon indicates that a channel is added to Favourite List.

Removing a Channel from Favourite List

- Highlight the channel that you want to remove from the favourite list and press OK button to remove. You can press OK button again to re-add a channel.
- To activate Favourites, go to the Configuration menu and select Favourite mode. Use “◀” / “▶” to set Favourite mode as on. To cancel Favourites, set Favourite Mode to Off.

On Screen Help

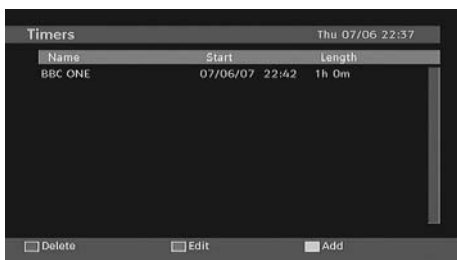
For all menus, press the **INFO** button to display the help information about the menu functions. For Channel List menu the following message is displayed on the screen:



Program Guide

This section is same with the instructions given in the General Operations page. Please see Electronic Programme Guide (EPG) section in the General Operations part.

Timers



To display timers window, activate the item from the main menu. To add a timer, press the **YELLOW** button on the remote control. Then “Add Timer” window appears.

Channel: “◀” or “▶” keys will navigate the user through the TV or Radio list.

Date: Starting date is entered via the Left/Right or the numeric buttons.

Start: Starting time is entered via the Left/Right or the numeric buttons.

End: Ending time is entered via the Left/Right or the numeric buttons.

Change/Delete: permits or prohibits any modifications for other users.

Duration: Duration between Start and End time.

Repeat: You can set a timer to be repeated as Once, Daily or Weekly.

You can save the adjustments by pressing the **GREEN** key or cancel the process by pressing the **RED** button. You can edit the list via **GREEN** key and delete with the **RED** button.

Conditional Access

- Press the **MENU** button to display the main menu and use the “▼” or “▲” button to highlight the “Conditional Access” line and press the **OK** button:



Some Digital Terrestrial channels operate on a Pay Per View basis. These require a subscription and a hardware decoder.

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.

- Switch off the TV and unplug from the mains.

- Insert the CAM and then the viewing card to the slot that is located in the terminal cover at the left-hand side of the TV (from front view).
- The CAM should be correctly inserted, it is impossible to insert fully if reversed. The CAM or the TV terminal may be damaged if the CAM is forcefully inserted.
- Connect the TV to the mains supply, switch on and then wait for few moments until the card is activated.
- Some CAMs may require the following set up. Please set the CAM by entering the IDTV menu, Conditional Access then pressing the OK button. (CAM set up menu is not displayed when it is not required.)
- To see the viewing contract information: enter IDTV; press the “MENU” button, then highlight Conditional Access and press the OK button.
- When no module is inserted, “No Conditional Access module detected” message appears on the screen.
- Refer to the module instruction manual for details of the settings.

NOTE: Insert or remove the CI module only when the TV is switched off or in standby mode.

TV Setup

You can use this item to display the TV functions.

The digital TV Setup menu screen is accessed from the main menu. Press the “MENU” button to display the main menu and use “▼” or “▲” button to highlight “TV Setup”, press the OK button to display TV Setup menu screen.



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

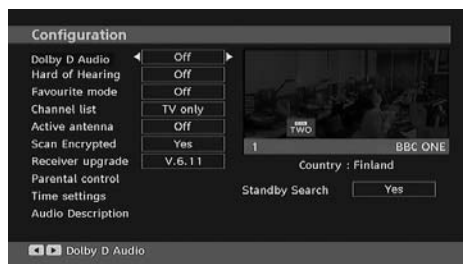
Setup

The adjustments in this menu are given as the following:



Configuration

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



Dolby Digital (* for EU countries only)

In the Configuration Menu, highlight the Dolby Digital item by pressing “▼” or “▲” buttons. Use the “◀” or “▶” buttons to set the Dolby Digital as On or Off. If the channel that you are watching supports Dolby Digital, you can turn this setting on

Hard of Hearing (* for EU countries only)

Use “▼” or “▲” button to select Hard of Hearing and then press “◀” or “▶” button to set this setting as On or Off.

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

Favourite Mode

Use this function to enable or disable favourite mode. Press “◀” / “▶” button to set this function as on or off.

Channel List

Use “▼” or “▲” buttons to go to Channel List option. Use “◀” or “▶” buttons to toggle Channel List Mode. If you select “TV Only”, with the “◀” or “▶” buttons, you navigate through only TV channels. If you select “Radio Only”, with the

“◀” or “▶” buttons, you navigate through only radio channels. If you select “Text Only”, with the “◀” or “▶” buttons, you navigate through only text channels.

Active Antenna

Use “▼” or “▲” buttons to highlight Active Antenna option.

When antenna power option is set as On by pressing “◀” or “▶” button, +5V will be transmitted to the antenna output.

This feature enables the use of active antenna.

Note: Antenna power should be “Off” when standard antenna is used instead of the active antenna.

Scan Encrypted (**)

(**) for UK broadcasts only.

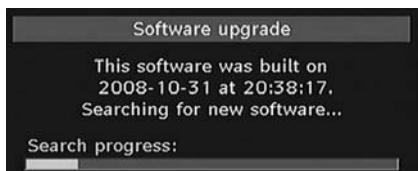
Scan Encrypted Channel feature will always be ON after performing first time installation. When this setting is on, search process will locate the encrypted channels as well. If it is set as OFF manually, encrypted channels will not be located while in automatic search or manual search.

Use “▼” or “▲” button to select Scan Encrypted and then press “◀” or “▶” button to set this setting as On or Off.

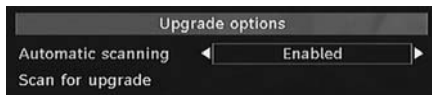
Receiver Upgrade

Over Air Download (OAD)

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



- Press “MENU” button and using the “▼” or “▲” buttons to choose Setup and press the **OK** button.
- Highlight Configuration menu with “▼” or “▲” keys and press **OK**.
- Use “▼” or “▲” buttons to choose “RECEIVER UPGRADE” and press **OK** button.



- Using the “◀” or “▶” button change “Automatic scanning” from Enabled to Disabled.
- Highlight “Scan for upgrade” menu with “▼” or “▲” keys and press **OK** to commence upgrade.
- After the search progress is completed, the message “Completed searching for upgrade. No new software was found” appears on the screen if no new software is found.
- Do not forget to re enable the automatic OAD function after you have made your recording by repeating the above instructions but this time selecting **ENABLE**.

Note: Your TV may start in First Time Installation mode after OAD update.

Parental Control

Use “▼” or “▲” buttons to go to Parental Lock option. Press **OK** button to enter the menu. A dialog box asking for the lock key will be displayed. The key is set to “0000” initially. Enter PIN. If it is incorrect, “Wrong Pin” OSD will be displayed. If it is correct, the Parental Control menu will be displayed:



Maturity Lock (*)

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

When set, this option gets the maturity information from the broadcast and if this maturity level is disabled, does not show video-audio.

Menu Lock

In menu lock you can set locking for all menus, or the Installation Menu to restrict access to these menus. If the menu lock is disabled, there will be free access to the menu system. Use “▼” or “▲” buttons to go to Menu Lock option. Use “◀” or “▶” buttons to choose Menu Lock Mode.

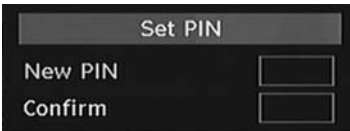
DISABLED : All menus are unlocked.

ALL MENUS : All Menus are accessible only with the correct lock key. So the user cannot add, delete, rename, channels, cannot set timers.

INSTALLATION MENU: Installation menu is locked. So the user can't add channels. Changes will be updated after exiting 'Configuration Menu'.

Set PIN

Use “▼” or “▲” buttons to go to “Set PIN” option. Press **OK** to display the “Set PIN” window. Use numeric buttons to enter new pin number you will need to input your new pin a second time for verification purposes. If both pin numbers are four digits long and the same, the pin will be changed. The factory default pin number is 0000, if you change the pin number make sure you write it down and keep it safe.



Time Settings

(*Time setting will not be available for UK).

In the configuration menu, highlight the Time Settings item by pressing “▲” or “▼” buttons.

Press OK and Time Settings sub menu will be displayed on the screen. Current Time, Time Zone Setting and Time Zone will be available.

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

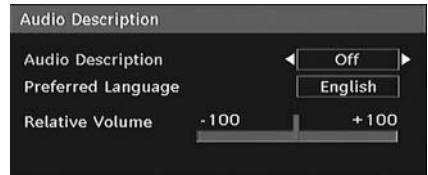
When AUTO is selected, Current Time and Time Zone options will not be available to be set. If MANUAL option is selected as the Time Zone Setting, Time Zone can be altered:

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

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

Audio Description (Optional)

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. Use “▼” or “▲” buttons to select an item. Then use “◀” or “▶” buttons to set.



Audio Description (Optional)

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

Preferred Language (Optional)

By pressing the “◀” or “▶” buttons the preferred audio description language is being changed.

This setting can be used, only if it is available.

Relative Volume (Optional)

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

Standby Search (*)

(*) This setting is visible only when the Country option is set to Denmark, Sweden, Norway or Finland.

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.

Language

In this menu the user can adjust the preferred language. Language is changed by pressing OK button.



Menu: shows the language of the system

Preferred

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

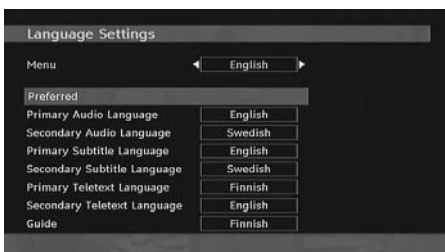
- **Audio:** by pressing “◀” or “▶” keys change the audio language.
- **Subtitle:** alter the subtitle language with “◀” or “▶” keys. The chosen language will be seen in subtitles.

Current

- **Audio:** if audio language is supported change the audio language by pressing “◀” or “▶” buttons
- **Subtitle:** if subtitle is backed up, alter the subtitle language with “◀” or “▶” buttons. The chosen language will be seen in subtitles.

Note: If the Country option is set to Denmark, Sweden, Norway or Finland, the Language Settings menu will function as described below:

Language Settings



In the configuration menu, highlight the Language Settings item by pressing “▼” or “▲” buttons. Press OK and Language Settings submenu will be displayed on the screen:

Use “▼” or “▲” buttons to highlight the menu item that will be adjusted and then press “◀” or “▶” button to set.

Notes:

- System Language determines the on-screen menu language.
- Audio Language is used for selecting the soundtrack of a channels.
- Primary settings are the first priority when multiple choices are available on a broadcast. Secondary settings are the alternatives when the first options are not available.

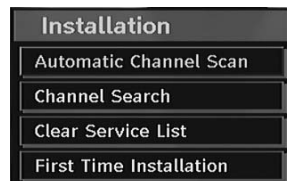
Installation

The Installation menu is mainly intended to help you for creating a Channel Table in the most efficient way. Select Installation from the Configuration menu by pressing “▼” or “▲” buttons.

This menu includes the following items:

- Automatic channel scan
- Manual Channel Scan
- Clear Service List (*)
- First Time Installation

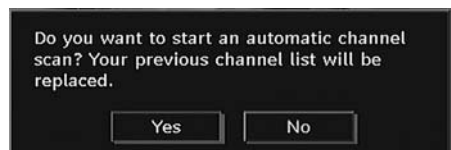
() For Denmark, Sweden, Norway or Finland.*



Automatic Channel Scan

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

The following message appears on the screen:



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

If Yes is selected, automatic search starts.

Selecting No cancels automatic search.

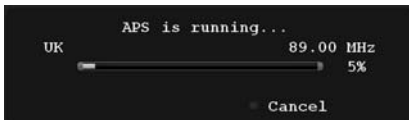
After search is completed for digital channels, a message asking whether to search for analogue channels appears on the screen:



Press the OK button to search for analogue channels. The following menu appears on the screen for analogue channel search:



Select your **Country**, **Language** and **Text language** by using “▼” or “▲” and “◀” or “▶” buttons. Press **OK** or **RED** button to continue. To cancel, press **BLUE** button. The following menu will be displayed during the automatic tuning:



After APS is finalized, the programme table will appear on the screen. In the programme table you will see the programme numbers and names assigned to the programmes.

If you do not accept the locations and/or the programme names, you can change them via the program table.

Manual Channel Scan

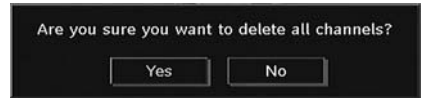
In manual channel scan, the number of the multiplex is entered manually and only that multiplex is searched for the channels. For each valid channel number, signal level and signal quality are shown on the screen.

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

Clear Service List (*)

(*) This setting is visible only when the Country option is set to Denmark, Sweden, Norway or Finland.

Use this setting to clear channels stored. Press “▼” or “▲” button to select Clear Service List and then press OK. The following OSD message will be displayed on the screen:



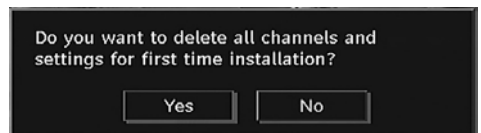
Press OK to cancel. Select Yes by pressing “◀” or “▶” button and press OK to delete all of the channels.

First Time Installation

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

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

Then you will be asked to confirm for deleting all channels and settings:



By selecting Yes and pressing the **OK** button, the existing channel table will be deleted.

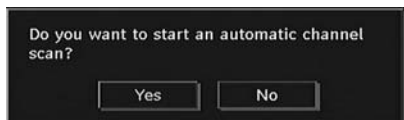
After factory settings are loaded, “First Time Installation” menu will be displayed.

The menu which is displayed for language selection appears on the screen at first. By using “▼” or “▲” buttons, select the desired language option, and press OK button to activate.

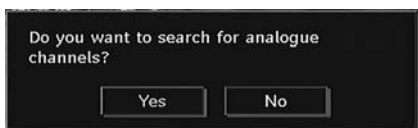
After then, “First time installation” OSD will appear on the screen. By pressing “◀” or “▶” buttons, select the **Country** you want to set and press **OK** button (* only for EU countries).

- Next, active antenna mode selection OSD will appear on the screen. Use “◀” or “▶” to set and press OK to continue. See the section, “Initial Settings” for more information.

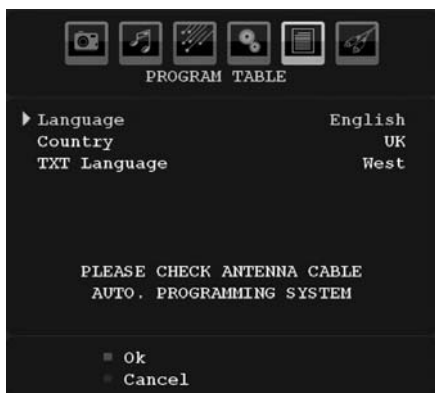
After active antenna mode option is selected, a message asking for automatic search appears on the screen:



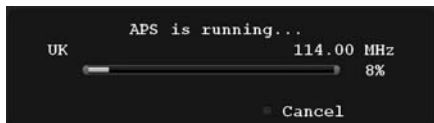
Press the **OK** button to start installation. After search is completed for digital channels, a message asking whether to search for analogue channels appears on the screen:



Press the **OK** button to search for analogue channels. The following menu appears on the screen for analogue channel search:



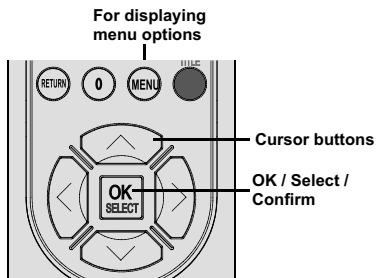
Select your **Country**, **Language** and **TXT Language** by using “▼” or “▲” and “◀” or “▶” buttons. Press **OK** or **RED** button to continue. To cancel, press **BLUE** button. The following menu will be displayed during the automatic tuning:



After APS is finalized, the programme table will appear on the screen. In the programme table you will see the programme numbers and names assigned to the programmes.

If you do not accept the locations and/or the programme names, you can change them via the program table.

Navigating the Analogue TV Menu System

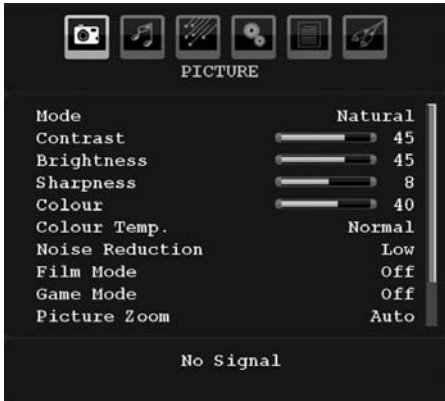


- Press “**MENU**” to display the main menu.
- Press “◀” or “▶” button to select an icon.
- Use “▼” or “▲” button to highlight.
- Press “◀” or “▶” buttons to change the settings.
- Press “▶” for more options.
- Press **OK** to store.
- To exit the menu or return from sub-menu screen, press “**MENU**”.

Note: These explanations are valid for the navigation of the analogue TV menu system. To select options that are explained in the following parts, refer to “Navigating the Analogue TV Menu System”.

Analogue TV Menu System

Picture Menu



Mode

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

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

Brightness/Contrast/Colour/Sharpness/Hue

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

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

Colour Temp

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

Note:

- Setting **Cool** option gives white colours a slight blue stress.
- Setting **Warm** option gives white colours a slight red stress.
- For normal colours, select **Normal** option.

Noise Reduction

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

Press “▼” or “▲” button to select **Noise Reduction**. Press “◀” or “▶” to choose from one of these options: **Low**, **Medium**, **High** or **Off**.

Film Mode

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

Press “▼” or “▲” button to select **Film Mode**.

Press “◀” or “▶” button to set this feature On or Off.

Turn this feature on when you are watching.

films to see the fast motion scenes clearly.

Game Mode (optional)

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

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

Note:

Picture mode selection button on the remote control will have no function while Game Mode is on.

Picture Zoom

Select **Picture Zoom** by pressing “▼” or “▲” button.

Use “◀” or “▶” buttons, to change picture zoom to **Auto**, **16:9**, **4:3**, **Panoramic**, **14:9**, **Cinema**, **Subtitle** or **Zoom**.

Store

Press “▼” or “▲” button to select **Store**. Press “▶” or **OK** button to store the settings. “**Stored...**” will be displayed on the screen.

Reset

Press “▼” or “▲” button to select **Reset**. Press “◀” or “▶” or **OK** button to reset the picture modes to factory default settings.

Sound Menu



Volume

Press “▼” or “▲” button to select **Volume**. Press “◀” or “▶” button to change the level of the Volume.

Equalizer

Press “▼” or “▲” button to select **Equalizer**. Press “▶” button to view equalizer menu.



Press “◀” or “▶” button to change the preset. In equalizer menu, the preset can be changed to **Music**, **Movie**, **Speech**, **Flat**, **Classic** and **User**.

Select the desired frequency by pressing “▼” or “▲” button and increase or decrease the frequency gain by pressing “◀” or “▶” button.

Press the “M” button to return to the previous menu.

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

Balance

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

Press “▼” or “▲” button to select **Balance**. Press “◀” or “▶” button to change the level of the balance. Balance level can be adjusted between **-32** and **+ 32**.

Headphone

Press “▼” or “▲” button to select **Headphone**. Press “▶” button to view the headphone menu.

Note: Headphone will be disabled when SPDIF option is set to on.

Headphone sub-menu options are described below:

Volume

Press “▼” or “▲” button to select **Volume**. Press “▶” button to increase headphone volume level. Press “◀” button to decrease headphone volume level. Headphone volume level can be adjusted between 0 and 63.

Sound Mode (optional)

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

AVL

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

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

Spdif Out

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

Note: If Spdif Out is set to On, headphone will be disabled.

Effect

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

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

Store

Press “▼” or “▲” button to select **Store**. Press “▶” or **OK** button to store the settings. “**Stored...**” will be displayed on the screen.

Feature Menu



Sleep Timer

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

The timer can be programmed between **Off** and **120** minutes in steps of **10** minutes.

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

Child Lock

Press “▼” or “▲” button to select **Child Lock**.

Use “◀” or “▶” button to set the Child Lock **On** or **Off**. When **On** is selected, the TV can only be controlled by the remote control handset. In this case the control panel buttons (except for the **standby** button) will not work.

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

Language

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

Default Zoom

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

Zoom to **Panoramic**, **16:9**, **4:3** or **14:9** by pressing “◀” or “▶” button.

Blue Background

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

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

Menu Background

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

Backlight

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

Menu Timeout

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

Press “▼” or “▲” button to select **Menu Timeout**. Use “◀” or “▶” button to change menu timeout to **15 sec**, **30 sec** or **60 sec**.

Teletext Language

Press “▼” or “▲” button to select **Teletext Language**. Use “◀” or “▶” button to change **Teletext Language** to **West**, **East**, **Turk/Gre**, **Cyrillic**, **Arabic** or **Persian**.

Ext Out

Press “▼” or “▲” button to select **Ext Out**. Use “◀” or “▶” button to set the **Ext Out** as **On** or **Off**.

Note:

*For copying from a DVD or VCR device, you should choose desired source from source menu and turn “On” to **EXT Out** from feature menu.*

Ext Out should be On in order to use Timers function in the DTV mode.

HDMI PC Full Mode (optional)

If you want to view PC screen in HDMI mode by using external connection, **HDMI PC FULL MODE** option should be **On** to adjust the screen ratio correctly. This item might be inactive in some resolutions.

Install Menu



Program

Press “▼” or “▲” button to select Program. Use “◀” or “▶” button to select the program number. You can also enter a number using the numeric buttons on the remote control. There are 200 programme storage between 0 and 199.

Band

Band can be selected either C or S. Press “◀” or “▶” button to set Band.

Channel

Channel can be changed by “◀” or “▶” button or numeric buttons.

Colour System

Press “▼” or “▲” button to select Colour System. Use “◀” or “▶” button to change the colour system to PAL, PAL 60, SECAM or AUTO.

Sound System

Press “▼” or “▲” button to select Sound System. Press “◀” or “▶” button to change the sound system to BG,DK, I, L or L'.

Fine Tune

Press “▼” or “▲” button to select Fine Tune. Press “◀” or “▶” button to adjust the tuning.

Search

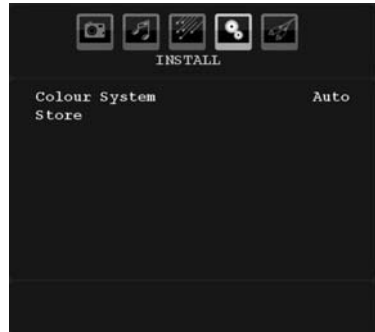
Press “▼” or “▲” button to select Search. Use “◀” or “▶” button to start programme searching. You can also enter the desired frequency using the numeric buttons while Search item is highlighted.

Store

Press “▼” or “▲” button to select Store. Press “▶” or OK button to store the settings. “Stored...” will be displayed on the screen.

Install Menu in AV Modes

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



Colour System

Press “▼” or “▲” button to select **Colour System**. Use “◀” or “▶” button to change the colour system to **PAL, SECAM, PAL60, AUTO, NTSC 4,43** or **NTSC 3,58**.

Store

Press “▼” or “▲” button to select **Store Program**. Press “▶” or OK button to store the settings. “Stored...” will be displayed on the screen.

Program Table

Select **Program Table** by pressing “▼” or “▲” button. Press “▶” to display Program Table:



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

Name

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

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

Move

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

Delete

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

APS (Auto Programming System)

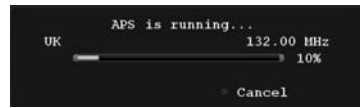
When you press the **BLUE** button for starting automatic tuning, **Auto Programming System** menu will appear on the screen:



Country

Press “▼” or “▲” button to select your country. If you want to exit from A.P.S. function, press the **BLUE** button.

When you press **OK** or **RED** button for starting automatic tuning, all stored programmes will be erased and the TV will search for available channels. During the search, the following OSD will be displayed:



Whenever you press the **BLUE** button, APS function stops and Program Table appears on the screen.

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

Source Menu

Press “▼” or “▲” button and select the sixth icon. Then press “▶” or **OK** button. Source menu appears on the screen:



In source menu, highlight a source by pressing “▼” or “▲” button and switch to that mode by pressing “▶” button. Source options are; **TV, DTV, DVD/USB, EXT-1, FAV, HDMI, YPbPr and PC-VGA.**

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

PC Mode Menu System

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

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

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

PC Position Menu

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



Autoposition

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

Select Autoposition item by using “▼” or “▲” buttons. Press **OK** or “◀”, “▶” button.

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

H (Horizontal) Position

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

Select **H Position** item by using “▼” or “▲” button. Use “◀” or “▶” button to adjust the value.

V (Vertical) Position

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

Select **V Position** item by using “▼” or “▲” button. Use “◀” or “▶” button to adjust the value.

Phase

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

Select **Phase** item by using “▼” or “▲” buttons. Use “◀” or “▶” button to adjust the value.

Dot Clock

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

Select **Dot Clock** item by using “▼” or “▲” buttons. Use “◀” or “▶” button to adjust the value.

PC Picture Menu

For adjusting PC picture items, do the following:

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

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

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

Sound Menu

The items in this menu are described at “**Sound Menu**” section explained in “**Menu System**”.


Feature Menu


Feature menu settings are identical to the settings explained in “**Feature Menu**” section in “**Menu System**”.

Source Menu

Source menu settings are identical to the settings explained in “**Source Menu**” section in “**Menu System**”.

Mute Function

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

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

Picture Mode Selection

By pressing **PRESETS** button, you can change **Picture Mode** settings in accordance with your viewing requirements. Available options are Dynamic, Natural and Cinema.

Note: This feature cannot be set while in PC mode.

Freezing Picture

You can freeze the picture on the screen by pressing the “**OK**” button on the remote control. Press the “**OK**” button to freeze picture. Press again to quit freeze mode.

Zoom Modes

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

Press **SCREEN** button to directly change the zoom mode.

Available zoom modes are listed below.

Note:

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

Zoom mode cannot be changed while in PC mode.

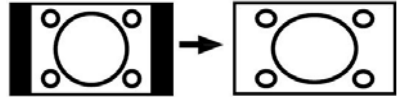
Auto

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

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

16:9

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



- For 16:9 aspect ratio pictures that have been squeezed into a normal picture (4:3 aspect ratio), use the **16:9** mode to restore the picture to its original shape.

4:3

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



Panoramic

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



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

14:9

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



Cinema

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



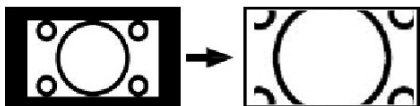
Subtitle

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



Zoom

This option zooms to the picture.



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

Teletext

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

Teletext function buttons are listed below:

“” Teletext On-Off

Activates teletext mode when pressed once. Pressing the button for the second time, activates teletext mix feature. Pressing again will quit the teletext mode.

“RETURN” - Index

Selects the teletext index page.

“” Subcode Pages

Selects subcode pages if available when the teletext is activated.

“INFO” - Reveal

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

“SCREEN” - Expand

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

P+ / P- and numbers (0-9)

Press to select a page.

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

Coloured Buttons

(RED/GREEN/YELLOW/BLUE)

Your TV supports both **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 **P** - or **P +** commands will request the next or previous page respectively.

Teletext Subtitle

If you press SUBTITLE button, teletext subtitle information will be displayed on the bottom right part of the screen (if available). You can set the desired option by highlighting it using “▼” or “▲” button and then by pressing OK button.

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 at the bottom of the TV.

Input Sources

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

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

Appendix A: PC Input Typical Display Modes

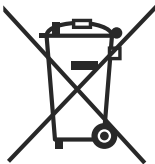
The display has a maximum resolution of 1600 X 1200. The following table is an illustration of some of the typical video display modes.

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

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

Index	Resolution		Frequency		Standard
	Hor	Ver	Ver (Hz)	Hor (KHz)	
1	640	480	60	31.5	VESA
2	640	480	72	37.9	VESA
3	640	480	75	37.5	VESA
4	800	600	56	35.2	VESA
5	800	600	60	37.9	VESA
6	800	600	70	43.8	
7	800	600	72	48.1	VESA
8	800	600	75	46.9	VESA
9	832	624	75	49.7	MAC
10	1024	768	60	48.4	VESA
11	1024	768	70	56.5	VESA
12	1024	768	72	57.7	
13	1024	768	75	60.0	
14	1152	864	70	64.2	VESA
15	1152	864	75	67.5	VESA
16	1152	870	75	68.9	MAC
17	1280	768	60	47.7	VESA
18	1360	768	60	47.7	
19	1280	960	60	60.0	VESA
20	1280	1024	60	64.0	VESA
21	1280	1024	75	80.0	VESA
22	1600	1200	60	75.0	VESA

Information for Users on Disposal of Old Equipment and Batteries



[European Union only]

These symbols indicate that equipment with these symbols should not be disposed of as general household waste. If you want to dispose of the product or battery, please consider the collection systems or facilities for appropriate recycling.

Battery

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

Products

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

Source	Supported Signals		Available
EXT-1 (SCART)	PAL 50/60		O
	NTSC 60		O
	RGB 50		O
	RGB 60		O
FAV	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
HDMI	480I	60Hz	O
	480P	60Hz	O
	576I	50Hz	O
	576P	50Hz	O
	720P	50Hz	O
	720P	60Hz	O
	1080I	50Hz	O
	1080I	60Hz	O
	1080P	50Hz	O
	1080P	60Hz	O
	1080P	24 HZ	O

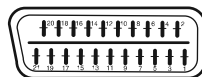
(X: Not Available, O: Available)

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

Appendix C: Pin Specifications

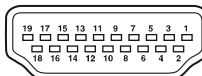
SCART connector pin specifications

Pin	Input signal	Pin	Input signal
1	AUDIO OUT (RIGHT)	12	Not used
2	AUDIO IN (RIGHT)	13	RGB-R GND
3	AUDIO OUT (LEFT/MONO)	14	GND
4	AUDIO GND	15	RGB-R / S.VHS CHROMINANCE IN
5	RGB-B GND	16	BLANKING SIGNAL
6	AUDIO IN (LEFT/MONO)	17	COMPOSITE VIDEO GND
7	RGB-B IN	18	BLANKING SIGNAL GND
8	AUDIO / RGB SWITCH / 16:9	19	COMPOSITE VIDEO OUT
9	RGB-G GND	20	COMPOSITE VIDEO / S.VHS LUMINANCE IN
10	Not used	21	GND / SHIELD (CHASSIS)
11	RGB-G IN		



HDMI connector pin specifications

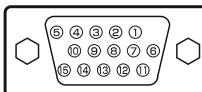
Pin	Input signal	Pin	Input signal
1	TMDS Data2+	11	TMDS Clock Shield
2	TMDS Data2 Shield	12	TMDS Clock-
3	TMDS Data 2-	13	CEC
4	TMDS Data 1+	14	Reserved (N.C. on device)
5	TMDS Data1 Shield	15	SCL
6	TMDS Data1-	16	SDA
7	TMDS Data0+	17	DDC/CED Ground
8	TMDS Data0 Shield	18	+5V Power
9	TMDS Data0-	19	Hot Plug Detect
10	TMDS Clock+		



Signal Input

PC RGB Terminal (D-sub 15-pin connector)

Pin	Input signal
1	R
2	G or sync on green
3	B
4	No connection
5	No connection
6	R.GND
7	G.GND
8	B.GND
9	No connection
10	GND
11	No connection
12	[SDA]
13	H.sync or H/V composite sync
14	V.sync. [V.CLK]
15	[SCL]



Specifications

TV BROADCASTING

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

RECEIVING CHANNELS

VHF (BAND I/III)

UHF (BAND U)

HYPERBAND

Digital Reception	MHEG-5 ENGINE compliant with ISO/IEC 13522-5 UK engine Profile 1	
	Object carousel support compliant with ISO/IEC 135818-6 and UK DTT profile	for UK
	Frequency range: 474-850 MHz for UK models	
	170-862 MHz for EU models	
	Transmission standard: DVB-T. MPEG-2	
	Demodulation: COFDM with 2K/8K FFT mode	
	FEC: all DVB modes	
	Video: MP@ML, PAL, 4:3/16:9	
	Audio: MPEG Layer I&II 32/44.148kHz.	

NUMBER OF PRESET CHANNELS

200

CHANNEL INDICATOR

On Screen Display

RF AERIAL INPUT

75 Ohm (unbalanced)

OPERATING VOLTAGE

220-240V AC, 50 Hz.

AUDIO

German+Nicam Stereo

AUDIO OUTPUT POWER ($W_{RMS.}$) (10% THD)

2 x 3

POWER CONSUMPTION (W)

60 W (max)

< 1 W (Standby)

PANEL

16:9 display, 19" Screen Size

DIMENSIONS (mm)

DxLxH (With foot): 118 x 459 x 348

Weight (Kg): 5,75

DxLxH (Without foot): 63 x 459 x 312

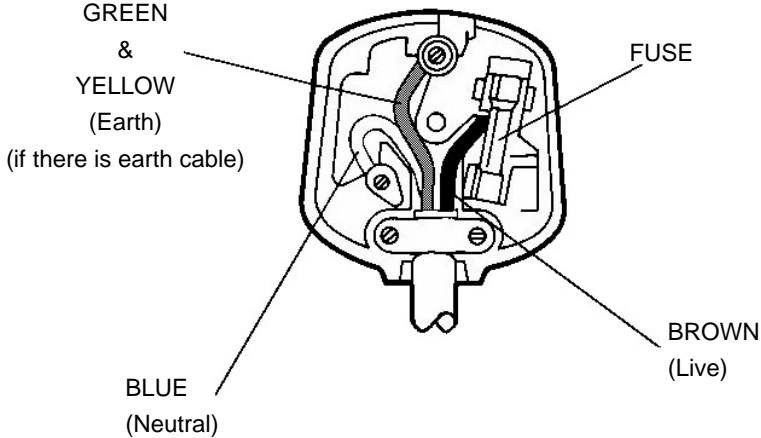
Weight (Kg): 5,50

Important Instruction

For your own safety read following instruction carefully before attempting to connect this unit to the mains supply.

MAINS (AC) OPERATION

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



IMPORTANT

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured green and yellow must be connected to the terminal which is marked with the letter E, or by the earth symbol, or coloured green or green and yellow.

The wire which is coloured blue or black must be connected to the terminal which is marked with the letter N or coloured Black.

The wire which is coloured brown or red must be connected to the terminal which is marked with the letter L or coloured Red.

For continued protection against risk of fire, replace only with same type and rating of fuse (ASTA approved 5A 250VAC fuse).

CAUTION

TO PREVENT ELECTRIC SHOCK DISCONNECT FROM THE MAINS BEFORE REMOVING COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

SAFETY PRECAUTION


THIS EQUIPMENT MUST BE DISCONNECTED FROM THE MAINS WHEN NOT IN USE. DO NOT ALLOW THIS UNIT TO BE EXPOSED TO RAIN OR MOISTURE.

Contents

Features	46	CD Menu	55
General Properties.....	46	Basic Play.....	55
About this Manual.....	46	MP3/MPEG/DivX File	55
Safety Information.....	46	PAUSE.....	56
Notes on Discs	47	Stopping Play.....	56
On handling discs	47	Rapid Advance (Rapid Reverse)	56
On cleaning.....	47	ZOOM	56
Licence Notification	47	Repeat.....	56
How to Watch a DVD.....	47	Display Function	56
DVD Control Panel Buttons.....	47	Setup Menu	57
Using Digital Multimedia Connectors.....	48	DVD MENU ITEMS	57
MC Card Connection	48	VIDEO SETUP PAGE.....	57
USB Memory Connection.....	48	TV Type.....	57
Overview of the Remote Control	49	DivX VOD	57
USB & MC Modes Playback.....	50	LANGUAGE SETUP.....	57
General Control Buttons for Media Mode	50	OSD LANG	57
Control Buttons for Playback	50	AUDIO	57
Picture Playback.....	50	DISC MENU.....	57
DVD Playback	50	SUBTITLE.....	57
Basic Play.....	50	PREFERENCES.....	57
For your reference:	50	DEFAULT	57
Stopping Play	51	DOWNMIX	58
Stopping Play and Returning To The Menu		PASSWORD (Change Password):	58
Screen	51	Troubleshooting.....	58
Rapid Advance (Rapid Reverse)	51	The picture quality is poor (DVD).....	58
Skipping Ahead or Back to Chapters.....	51	Disc does not play	58
Skipping ahead	51	Wrong OSD language.....	58
Skipping back	51	Some functions (Angle, Zoom etc) do	
Still Picture (PAUSE)	51	not work	58
Frame Advance (STEP FORWARD)	51	No picture	58
Slow - motion Play Forward.....	51	No sound	58
Direct Selection of Scenes.....	51	Distorted sound.....	58
Selecting Scenes by Chapter Number.....	51	No response from remote control	58
Selecting Scenes by Title Number.....	52	If nothing works.....	59
Selecting Scenes by Time	52	Definition of Terms.....	59
Convenient Functions.....	52	Angle.....	59
Displaying / Changing Subtitle Language.....	53	Chapter Number	59
Changing Audio Soundtrack Language.....	53	DVD	59
Viewing From Another Angle	53	Subtitles	59
Using a DVD Menu.....	54	Time Number	59
Video CD Playback.....	54	Title Number	59
Basic Play.....	54	Track Number	59
Stopping play.....	54	Dolby Digital.....	59
Rapid Advance / Rapid Reverse.....	54	Dolby Pro Logic	59
Skipping Ahead or Back to Chapters.....	54	LPCM.....	59
Skipping ahead	54	MPEG	59
Skipping back	54	DivX	59
Still Picture (PAUSE)	54	Supported File Formats for USB & MC Modes.....	60
Frame Advance (STEP Forward).....	54	Supported Memory Card Types.....	60
Slow- motion Play.....	54	Disc Types Compatible with This Unit	61
Direct Selection of Scenes.....	55	Specifications	62
Selecting Scenes by Time	55	Restricted Warranty	63-64-65-66
For your convenience:	55		
Convenient Functions	55		

Features

General Properties

- DVD / CD / CD-R / CD-RW / MP3 / JPEG / MPEG / DivX playback.
- USB & MC inputs.
- NTSC/PAL playback (according to disc content)
- User-friendly multilanguage OSD menu control.
-  **DIGITAL**, LPCM audio via coaxial and optical digital audio outputs. (optional)
- Multiple Aspect Ratio support (16:9 Widescreen, 4:3 Letterbox, 4:3 PAN & SCAN)
- Multi-Audio (up to 8) support (According to disc content)
- Multi-Subtitle (up to 32) support (According to disc content)
- Multi-Angle (up to 9) support (According to disc content)
- 8 level parental control
- Fast forward and rewind in 5 different speeds. (2x, 4x, 8x, 16x, 32x)
- Slow motion playback in 4 different speeds. (1/2x, 1/4x, 1/8x, 1/16x forward)
- Frame by frame forward playback.
- Time Search
- Repeat
- A B repeat
- Program function for Audio CD, MP3 and JPEG.
- Coaxial & Optical digital audio outputs (optional)
- Copied disks may be incompatible.

Note:

*** This DVD player may not support some MP3 recordings due to differences in recording formats or disc type.

*** Please read the owner's manual about MP3 playback.

*** CD-R/CD-RW discs recorded by CD-DA method can be played. Some CD-R/CD-RW discs may be incompatible due to laser pick-up and disc design.

*** DVD-R/RW discs recorded by DVD-Video method can be played. Some DVD-R/RW discs may be incompatible due to laser pick-up and disc design.

*** Some discs may be incompatible with JPEG Viewer function due to different recording format or condition of the discs.

About this Manual

Safety Information

CAUTION

DVD Player is a class 1 laser product. However this product uses a visible laser beam which could cause hazardous radiation exposure. Be sure to operate the player correctly as instructed.

CLASS 1 LASER PRODUCT

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

• DTS and DTS Digital Out are trademarks of Digital Theater Systems, Inc.

RISK OF ELECTRIC SHOCK



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock of persons.

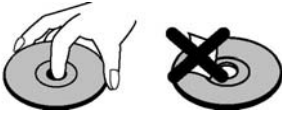


The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Notes on Discs

On handling discs

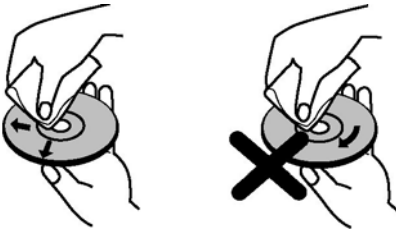
- To keep the disc clean, handle the disc by its edge. Do not touch the surface.
- Do not stick paper or tape on the disc.
- If the disc is contaminated with any substance like glue remove before using it.



- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as the temperature can rise quickly and damage the disc.
- After playing, store the disc in its case.

On cleaning

- Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out.



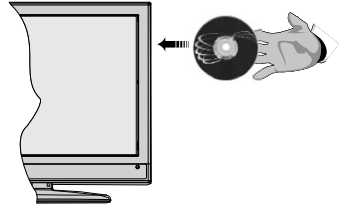
- Do not use solvents such as benzene, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.

Licence Notification

- This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

How to Watch a DVD

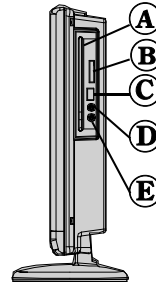
When placing a disc into the loader, labeled side of the disc should be on the front:



When TV set is turned on, first switch to DVD source by using the **SOURCE** button on the remote control. Press play on the remote control, or directly press play button at the front panel. If there is no disc inside the loader, place a DVD first and press play.

Note: You can get DVD source output via scart socket.

DVD Control Panel Buttons



A. Disc loader

B. Memory card slot

C. USB input

D. Play / Pause

Plays/pauses the disc. When DVD menu (root menu) is active, this button functions as "button select" (selects the highlighted item in menu) if this is not prohibited by the disc.

E. Stop / Eject

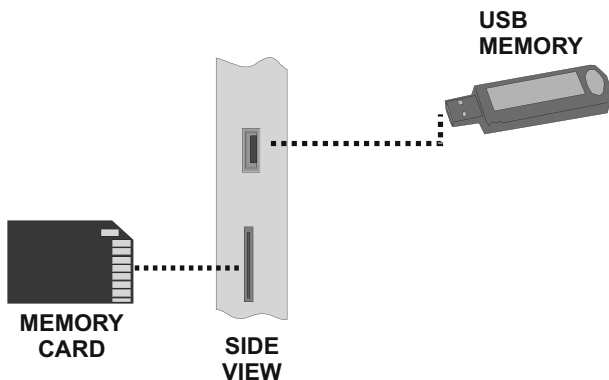
Stop playing disc / Eject or Load the disc
Note:

- You cannot eject the disc via the remote control.
- While playing a file, you should press STOP button three times to eject.

Using Digital Multimedia Connectors

- Use SWAP button on the remote control to switch between USB and memory card.
- You can connect USB/MC devices to your TV by using USB or MC input of the TV. This feature allows you to display/play files stored on a USB device or a MC card.
- It is possible that certain types of USB devices (MP3 Players) or Multimedia Card interfaces may not be compatible with this TV.
- You may back up your files before making any connections to the TV set in order to avoid any possible data loss. Note that manufacturer will not be responsible for any file damage or data loss.
- Do not pull out USB module or MC card while playing a file.

CAUTION: *Quickly plugging and unplugging USB devices, is a very hazardous operation. Especially, do not repeatedly quickly plug and unplug the drive. This may cause physical damage to the USB player and especially the USB device itself.*



MC Card Connection

- Insert the MC card into the Memory Card Input of the TV. Make sure the gold contact area faces up. The card is designed to fit easily into the system one way only. Do not bend the card or force it into the slot. Insert only one card at a time.
- When you want to eject the card, do not grab the card all at once. Push to the card gently. Then it will pop out.

USB Memory Connection

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

Note: *USB hard drives are not supported.**

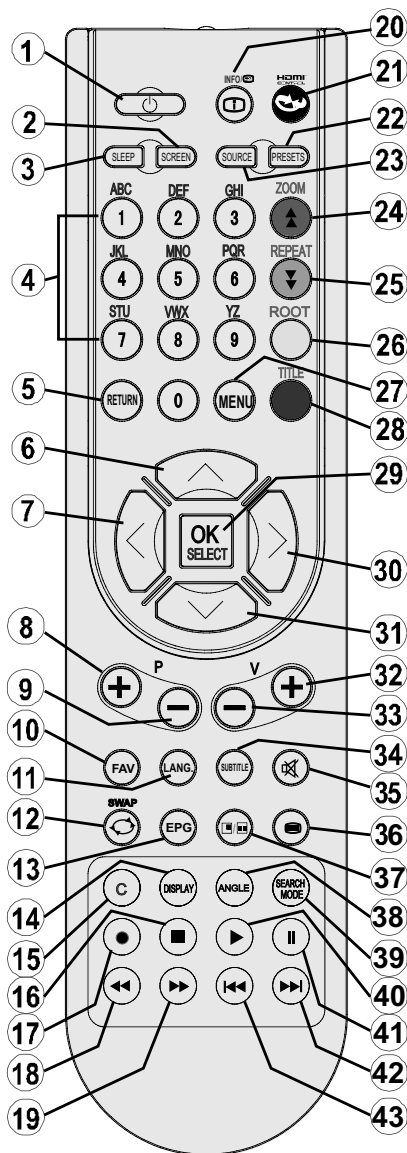
- It is recommended that you connect your USB device directly to the USB input of the TV. Some compatibility problems may occur if you use a separate cable connection..



Note: While in DVD mode, MEDIA screen will be displayed automatically when you plug USB or insert a valid memory card.

Overview of the Remote Control

1. Standby
2. Image size
3. Sleep timer
4. Numeric buttons
5. Return
6. Cursor up
7. Cursor left
8. Programme up
9. Programme down
10. No function in DVD mode
11. Audio-Language selection
12. Swap / DVD media selection
13. No function in DVD mode
14. Display time / DVD menu
15. Clear
16. Stop
17. No function
18. Rapid Reverse
19. Rapid advance
20. Info
21. No function
22. Picture mode selection
23. Source selection
24. Zoom
25. Repeat
26. Root
27. Menu
28. Title
29. OK / Select
30. Cursor right
31. Cursor down
32. Volume up
33. Volume down
34. Subtitle
35. Mute
36. No function in DVD mode.
37. No function
38. Angle
39. Search mode

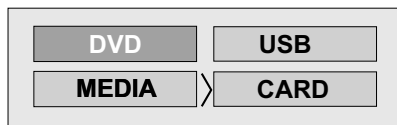


40. Play
41. Pause / Play
42. Skip next
43. Skip previous

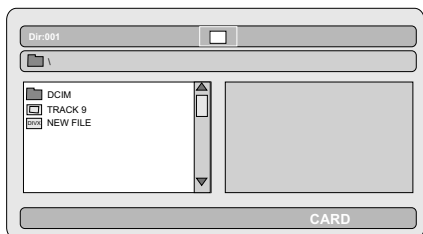
USB & MC Modes Playback

Switch to DVD source by using the **SOURCE** or **PLAY** button on the remote control.

You can connect both USB and MC sources to your TV at the same time. Press **SWAP** button on the remote control to list, available inputs are listed on a menu screen.



Select the desired input by using the cursor button and then press **OK** button to view contents. After **OK** button is pressed, the following screen (depending on the make and contents of the device) will appear after a short while:



You can view or play contents of your device by using the related remote control buttons. See, General Control Buttons for Media Mode and Control Buttons for Video Playback.

Note:

- Whenever you press the **SWAP** key, available media sources will be listed.
- If there is an active playback, you have to press **STOP** button first and then **SWAP** key to list available **DMP** inputs.
- If you have plugged only one source, then only that source will be available to be selected.
- Do not pull out the **MC** module while playing a file.
- It is possible that certain types of **MC** or **USB** devices may not be compatible with this **TV**.

General Control Buttons for Media Mode

OK / SELECT > **Enter/View**

▼ / ▲

> Highlight an item by moving up or down.

▶

> **Play**

▬

> **Pause**

■

> **Stop**

RETURN

> **Media source selection.**

Control Buttons for Playback

◀/▶

> Rapid reverse / rapid advance / .

SEARCH

> Search for a specific time.

DISPLAY

> Displays time.

ZOOM

> Zooms picture.

Picture Playback

◀/▶

> Previous - next picture.

◀/▶

> Rotate picture

REPEAT

> Displays repeat options.

ZOOM

> Zooms picture.

ROOT

> Go back to root folder.

DVD Playback

Basic Play

1. Press on the power button

2. Please insert a disc to the loader.

The disc will be automatically loaded and play commences if the disc does not have any menus recorded on it.

A menu may appear on the TV screen after a few moments or the film may start immediately after the introduction of the Film Company. This behaviour depends on the disc content and may change.

NOTE: Step 3 and 4 is available only when a menu is recorded on the disc.

3. Press "▼" / "▲" / "◀" / "▶" or the number button (s) to select the preferred title.

4. Press **SELECT**.

Play of the selected items now starts. The played item may be a motion picture, a still picture or another submenu depending on the disc.

For your reference:

If an action corresponding to a button is prohibited the "⊘" symbol appears.

Stopping Play

Press stop (■) twice (only for videos).

To stop the play permanently, press STOP (■) twice. When the STOP (■) button is pressed for the first time, a message "PRESS PLAY KEY TO CONTINUE" will appear on the screen to remind you if you want to continue the play. To stop the play, press the STOP (■) button again or you can press **SELECT** to continue.

Stopping Play and Returning To The Menu Screen

(When a menu is available on the disc)

Press **MENU** or **TITLE** button depending on the disc. Play is suspended, and the Disc menu screen is displayed.

Rapid Advance (Rapid Reverse)

Press SEARCH/SLOW (▶▶) on the remote control during play.

Normal play is resumed when the SELECT button or PLAY/PAUSE (▶||) button is pressed.

The speed of advance (▶▶ 2x, ▶▶ 4x, ▶▶ 8x, ▶▶ 16x, ▶▶ 32x) or reverse (◀◀ 2x, ◀◀ 4x, ◀◀ 8x, ◀◀ 16x, ◀◀ 32x) changes for every press of the ▶▶ or ◀◀ button.

Note: No sound will be heard during Rapid advance or Rapid reverse.

Skipping Ahead or Back to Chapters

Skipping ahead

Press SKIP/ FRAME (▶▶▶) on the remote control during play.

A chapter is skipped forward each time the button is pressed.

Skipping back

Press SKIP/ FRAME (◀◀◀) on the remote control during play.

When the button is pressed once midway through a chapter, play returns to the previous chapter.

Still Picture (PAUSE)

Press PAUSE (||) once during play.

The screen freezes.

To return to normal play press PLAY (▶).

Frame Advance (STEP FORWARD)

Press PAUSE (||) once during play.

The screen freezes.

Press SKIP/ FRAME (▶▶▶) on the remote control.

The next frame of the movie is displayed.

You can press SKIP/ FRAME (▶▶▶) for the following frames.

To return to normal play press PLAY (▶).

NOTE: Reverse stepping is not available.

Slow - motion Play Forward

Press PAUSE (||) once during play.

The screen freezes.

Press SEARCH/SLOW (▶▶) on the remote control.

The unit starts playing the movie at four different speeds (▶▶ 1/2, ▶▶ 1/4, ▶▶ 1/8 and ▶▶ 1/16).

You can increase or decrease the speed of the slow-motion play by pressing SEARCH/SLOW (◀◀ or ▶▶).

The speed of slow motion play is displayed on the screen each time you change it.

To return to normal play, press PLAY (▶).

NOTE: No sound will be heard during Slow motion play.

NOTE: Reverse slow motion play is not available.

Direct Selection of Scenes

Selecting Scenes by Chapter Number

Press **SEARCH MODE** on the remote control once during playback.


The chapter/title search box is displayed on the screen. You can see the currently playing and total number of chapters in right hand side of the display bar as -- / xx.

Enter the number of the chapter using number buttons.

The selected chapter is played just after you enter the chapter number.

For your convenience:

- If the chapter number you entered is between 0 and 9, player will automatically jump to the related chapter.
- You can clear the field by pressing the **C** button if you enter a wrong number.
- If you attempt to enter a number greater than the total number of chapters on the current

title, the search box disappears and “ Input Invalid” message is displayed on screen.

- If you wait five seconds without pressing any key for selecting scenes by chapter number, the operation is cancelled.
- You can press RETURN key to cancel title search.

Selecting Scenes by Title Number

Press SEARCH on the remote control once during playback.

The chapter/title search box is displayed on the screen. You can see the currently playing and total number of titles in left hand side of the display bar as -- / xx.

Enter the number of the title using the numeric buttons.

The selected title is played just after you enter the title number.

Selecting Scenes by Time

You can view the DVD starting from any time point you want.

Press SEARCH MODE on the remote control “twice” during playback.

The time search box is displayed on the screen as Title xx/xx Time -- : -- : --.

Enter the time using number buttons.

The title is played beginning from the desired time just after you enter the time. If not prohibited by the DVD.


Press SEARCH MODE on the remote control “three times” during playback.

The time search box is displayed on the screen as Chapter xx/xx Time -- : -- : --.

Enter the time using number buttons.

The Chapter is played beginning from the desired time just after you enter the time. If not prohibited by the DVD.

For your convenience:

- You can clear the fields by pressing the C button if you enter wrong numbers.
- If you attempt to enter a number greater than the total time of the current title, the time search box disappears, “ Input Invalid” message is displayed on screen.

- If you wait five seconds without pressing any key to enter time, selecting scenes by time option is cancelled.
- You can press RETURN key to cancel time search.

Convenient Functions

Displaying the time information

Press DISPLAY during play.

Some information is displayed on TV screen to indicate the current status of the disc. On the display screen you can find the following information lines:

Line 1: Time Counter Mode

Line 2: Title Number, Chapter Number, Time Counter

Line 3: Audio Number, Audio Format, Number of Output Channels, Audio Language

Line 4: Subtitle Number & Subtitle Language

Time counter modes can be selected by pressing INFO key consecutively.

The sequence for time counter modes is as follows: TITLE ELAPSED, TITLE REMAIN, CHAPTER ELAPSED and CHAPTER REMAIN.







- If “TITLE ELAPSED” is displayed, the elapsed time for the title is being displayed.
- If “TITLE REMAIN” is displayed the remaining time for the title is being displayed.
- If “CHAPTER ELAPSED” is displayed, the elapsed time for the chapter is being displayed.
- If “CHAPTER REMAIN” is displayed, the remaining time for the chapter is being displayed.

Pressing the DISPLAY key for the second time closes display menu screen. “DISPLAY OFF” is displayed.

Displaying a scene with a larger and closer view

The ‘zoom in’ function enables you to take a closer look at the scene you are viewing that is especially an impressive function when you are seeing science fiction or adventure film.

Press ZOOM during play.

 "2X" is displayed on the screen and the picture is now larger. By pressing ZOOM key consecutively you can reach  "3X",  "4X",  "1/2x",  "1/3x",  "1/4x" modes.

NOTE: You can move in the picture, i.e. change the zoomed location, by using the "◀" (Left) or "▶" (Right) / "▼" (Down) / "▲" (Up) arrow keys.

To return to normal play


Press ZOOM again.

Displaying / Changing Subtitle Language

It is possible to change the subtitle language from the one selected at the initial settings to a different language, if available.

(This operation works only with discs on which multiple subtitle languages are recorded.)

Press SUBTITLE during play.

When no subtitles are recorded  will be displayed instead of the selected language.

Press SUBTITLE a number of times until the preferred language is selected.

When this button is pressed once, the first subtitle recorded on the disc will display. The rest of the subtitles recorded will display in sequence for every press of the SUBTITLE button

NOTE:

<?> In some cases, the subtitle language is not changed immediately to the selected one.

For your convenience:

- When the preferred language is not selected even after pressing the button several times, it means that the language is not available on the disc.
- When the player is restarted or the disc is changed, the subtitle selection is automatically changed back to the initial settings.
- If a language is selected, which is not supported by the disc, the subtitle language will automatically be set to the disc's priority language.
- Usually a circulation will happen while switching to another language, that is you can cancel the subtitle by pressing this button a

number of times until "Subtitle Off" appears on the screen.

Changing Audio Soundtrack Language

It is possible to change the audio language from the one selected at the initial settings to a different language, if available.

(This operation works only with discs on which multiple audio soundtrack languages are recorded, if not prohibited by the DVD.)

Press LANG. during play.

Press LANG. a number of times until the preferred language is selected.


For your convenience:

- When the preferred language is not selected even after pressing the button several times, it means that the language is not available on the disc.
- When the power is turned on or the disc is removed, the language heard is the one selected at the initial settings. If this language is not recorded on the disc, only the available language on the disc will be heard.

Viewing From Another Angle

Some DVD discs may contain scenes, which have been shot simultaneously from a number of different angles. For these discs, the same scenes can be viewed from each of these different angles using the ANGLE button.

The number of recorded angles differs depending on the disc used.

 "y/x" is displayed shortly on the screen during playback. This indicates that the multi-angle scene has just started. From that moment on, the yth angle of total x angles is played and you can change the viewing angle until the end of the multi-angle scene.

Press ANGLE during play.

The current angle is changed.

Press ANGLE a number of times until the preferred viewing angle is selected.

- This function will only work on discs where different angles have been recorded.

Using a DVD Menu

Some DVD discs have unique menu structures called DVD menus. For example, DVDs programmed with complex contents provide guide menus, and those recorded with various languages provide menus for audio and subtitle language. Although the DVD menus' contents and operation differ from disc to disc, the following explains basic operation when this feature is used.

Press TITLE on the remote control.

The DVD menu available on the disc is now displayed.

NOTE:

- If you press MENU, the root menu of DVD is displayed.
- If you press TITLE, the menu of the current title is displayed.

Press “◀” / “▶” / “▼” / “▲” to select the preferred item.

Press SELECT.

The selected item is now executed.

For your convenience:

- You can also use number keys to select a DVD menu item. The player will automatically execute the item. To enter an item number which is more than 1 digit, press +10 key and then enter the item number.

NOTE:

- Some DVDs may not contain root and/or title menus.
- To resume the playback, select PLAY item in DVD menu.

Video CD Playback

Basic Play

The details differ depending on the disc concerned. Also refer to the instructions accompanying the disc.

Press the number button(s) to select the preferred item and press OK button.

The player now starts to play the selected item.

NOTE:

- “◀” / “▶” / “▼” / “▲” arrow buttons can be used for selecting items for video CDs.

Stopping play

- To stop the play permanently, press STOP (■) twice. When the STOP (■) button is pressed for the first time, a message “Press Play Key To Continue” will appear on the screen to remind you if you want to continue the play. To stop the play, press the STOP (■) button again or you can press PLAY (▶) to continue.

Rapid Advance / Rapid Reverse

Press ◀◀ (or) ▶▶ on the remote control during play.

- Normal play is resumed when the SELECT button or PLAY (▶) button is pressed.
- The speed of advance (▶▶ 2x, ▶▶ 4x, ▶▶ 8x, ▶▶ 16x, ▶▶ 32x) or reverse (◀◀ 2x, ◀◀ 4x, ◀◀ 8x, ◀◀ 16x, ◀◀ 32x) changes for every press of the ◀◀ (or) ▶▶ button.

Note: No sound will be heard during Rapid advance or Rapid reverse.

Skipping Ahead or Back to Chapters

Skipping ahead

Press (▶▶) on the remote control during play.

A track is skip ahead each time the button is pressed.

Skipping back

Press (◀◀) on the remote control during play.

A track is skip back each time the button is pressed.

Still Picture (PAUSE)

Press PAUSE (||) once during play. The screen freezes.

To return to normal play press PLAY (▶) again.

Frame Advance (STEP Forward)

Press PAUSE (||) once during play. The screen freezes.

Press (▶▶) on the remote control.

The next frame of the movie is displayed.





You can press (▶▶) for the following frames.

NOTE: Reverse stepping is not available.

Slow-motion Play

Press PAUSE (||) once during play. The screen freezes.

Press (▶▶) on the remote control.

You can increase or decrease the speed of the slow-motion play by pressing SEARCH/SLOW (◀◀ (or) ▶▶). There are 4 slow motion modes as  1/16,  1/8,  1/4,  1/2.

The speed of slow motion play is displayed on the screen each time you change it.

To return to normal play press PLAY (▶) again.

NOTE: No sound will be heard during Slow motion play.

NOTE: Reverse slow motion play is not available.

Direct Selection of Scenes

Selecting Scenes by Time

You can view the video CD, starting from any time point you want.

Press SEARCH MODE on the remote control once time during playback.

The time search box is displayed on the screen as SELECT :__ / xx

Player goes to entered track of the disc.

Press SEARCH MODE on the remote control two times during playback.


The time search box is displayed on the screen as GOTO: : __ : __

Player goes to entered time of the current track.

Enter the time using number buttons.

The title is played beginning from the desired time just after you enter the time.

For your convenience:

- If you attempt to enter a number greater than the total time of the current title, the time search box disappears and  "Input Invalid" message appears on up-left corner of screen.
- If you give up entering the time simply press RETURN button, and the operation is cancelled.

Convenient Functions

Displaying the time information

Press INFO during play.

Each time this button is pressed, a different time information box is displayed on the screen.

- If "Single elapsed" is displayed, the elapsed time for the title which is being played will be displayed.
- If "Single remain" is displayed, the remaining time for the title which is being played will be displayed.

Pressing the INFO key again closes display menu screen. "DISPLAY OFF" is displayed.

Displaying a scene with a larger and closer view.

CD Menu

CD Menu is used to display the directory structure of data discs which would contain files such as JPEG/MPEG/MP3/DivX and to display the tracks of Audio CDs.

Basic Play

1. Please insert a CD-R disc to the loader.

"Loading" message appears on screen. Please wait for a moment.

CD MENU appears. Directories and the files in the root directory are listed. (For Audio CD, the tracks are listed.)

2. Press "▼" or "▲" to select files or directories.

In the stop mode or while playing MP3 the user can navigate in the current directory.

3. Press SELECT, "◀" or "▶" to switch between directories & files.

If a directory is selected and SELECT or "▶" key is pressed then the selected directory content is displayed after reading directory.

To switch from a sub directory to an upper directory, press SELECT or "▶" key while the top-most option in the directory ("...") is selected or press "◀◀".

4. Press SELECT on a file to play.

MP3/MPEG/DivX File

Selected MP3 / MPEG / DivX starts to play.

Elapsed or Remaining Time can be displayed using DISPLAY key and can be changed using INFO key.

JPEG File :

Selected JPEG is displayed in full screen and Slide Show starts automatically.

During slideshow, you may change slide type (effect) by pressing ANGLE button.

Audio CD Track:

Elapsed or Remaining Time can be displayed using DISPLAY key and can be changed using INFO key.

PAUSE

Press PAUSE (⏸) once during play. The play freezes.

PAUSE message appears on screen.

To return to normal play press PLAY (▶) again.

Stopping Play

Press STOP (■).

The play is stopped.

NOTE: If a JPEG file is displayed, pressing MENU also stops the play.

MP3/MPEG/DivX File: CD MENU is displayed.

Rapid Advance (Rapid Reverse)

MP3/MPEG/DivX CD Track:

Press SEARCH/SLOW (◀◀ or ▶▶) during play to decrease/increase play speed.

◀◀ 32x, ◀◀ 16x, ◀◀ 8x, ◀◀ 4x, ◀◀ 2x, PLAY, ▶▶ 2x, ▶▶ 4x, ▶▶ 8x, ▶▶ 16x, ▶▶ 32x are the play speed modes.

Skipping Ahead or Back to Tracks

Press SKIP/ FRAME (◀◀◀/▶▶▶) during play to jump to the previous/next file.




Next file in the current directory will be played. Press SKIP/ FRAME ((◀◀◀/▶▶▶)) during stop mode to jump to the previous/next page of the current directory.

ZOOM

MPEG:

This "zoom in" function enables you to take a closer look at the scene you are viewing that is especially an impressive function when you are seeing science fiction or adventure film.

Press ZOOM during play.

" 2X" is displayed on the screen and the picture is now larger. By pressing ZOOM key consecutively you can reach " 3X", " 4X" modes.

NOTE: You can move in the picture, i.e. change the zoomed location, by using the (◀) / (▶) / (▼) / (▲) arrow keys.

To return to normal play;

Press ZOOM again.

JPEG :

Press PLAY (▶) to start slide show. During slideshow, you may change slide type (effect) by pressing ANGLE button.

It is provided both ZOOM in/out and Zoom pan functions for JPEG pictures.

Press ZOOM to turn on/off this function.

When this mode is on, a message will indicate the current ratio on screen.

If zoom mode is on,

Press ◀◀ / ▶▶ to control the ratio of zoom in/out.

The zoom ratios are %50 and %75 for zoom out and %100, %125, %150 and %200 for zoom in. (The order is: %50, %75, %100, %125, %150, %200)(The initial ratio is %100)

With ZOOM mode off, a picture is scaled to fit the whole screen.

Note: Slide Show is disabled when the ZOOM mode is on.

Repeat

Press REPEAT to change current repeat mode.

In CD MENU it is displayed at the bottom.

The options available are:

FOLDER: When this mode is selected, the current folder will be played once.

SINGLE: When this mode is selected, the current track will be played once.

REPEAT ONE: When this mode is selected, the current track will be repeated continuously.

REPEAT FOLDER: When this mode is selected, the current folder will be repeated continuously.

Display Function

Press INFO to change displayed time mode.

There are two time modes :

- Single Elapsed
- Single Remain

Time is displayed during MP3,MPEG/DivX and Audio CD track playback.

Setup Menu

Press DISPLAY key on the remote control when the player is not in playback mode.

The setup menu-main page appears. To close the setup menu, press DISPLAY key.

MAIN PAGE

In the main page, the first page is selected by default.

Select pages using ◀/▶ arrow buttons.

When selected, the page will be highlighted and the items of the selected page will be displayed.

Press SELECT or ▼ arrow button to enter selected page.

When entered a page, the first item of the page is selected and the sub-items of that item are listed on the right.

NOTE: To return to main page, press ◀ arrow button. To close the setup menu, press DISPLAY key.

USING PAGES

When entered a page, the first item of the page is selected by default and the sub-items of the selected item are listed on the right.

Use ◀ arrow buttons to change the selected item in the page.

The sub-items of the selected item are listed on the right.

Press SELECT or ▶ arrow button to select the sub-items of the selected item.

The sub-item is selected on the right menu.

Use ▼/▲ arrow buttons to change the selected sub-item.

Press SELECT to choose the selected sub-item on the right menu.

DVD MENU ITEMS

VIDEO SETUP PAGE



TV Type

TV Type is only available as 'PAL'. The TV set also supports NTSC signal; however, the signal will be converted to PAL when it appears on the screen.

DivX VOD

DivX VOD provides the convenience of streaming video in terms of quality and performance.

LANGUAGE SETUP



OSD LANG

You can select the default OSD language of the player menus

AUDIO

You can select the default audio language if supported by the DVD disc.

DISC MENU

You can select the DVD's disc menu language among these languages. Disc menu appears in the selected language, if supported by the DVD disc.

SUBTITLE

You can select the default subtitle language if supported by the DVD disc.

PREFERENCES



DEFAULT

If you choose RESET and press SELECT, the factory-presets are loaded. Parental level and parental password does not change.

DOWNMIX

This mode can be selected when the digital audio output of the TV is used.

SURROUND: Surround sound output.

STEREO: Two channels stereo.

PARENTAL (Parental Level)



Playing some DVDs can be limited depending on the age of users. The "Parental Control" function allows playback limitation level to be set by the parent.

Parental Level can be adjusted to one of the eight levels. Level "8 ADULT" adjustment let you watch all of the DVD titles ignoring the DVD disc's parental level. You can watch the DVD discs, which has the same or lower parental level than the player's level only.

PASSWORD (Change Password):

Using this item you can change the current password.

To change the password you will be prompted to enter your old password. After you have entered your old password, you can now enter the new 4-digit password.

You can use C key to delete the incorrect entry.

Note: Factory preset of the password is "0000". You have to enter XXXX digital password every time you want to change the parental level. If you forget your password please contact technical service.

Troubleshooting

The picture quality is poor (DVD)

- Make sure the DVD disc surface is not damaged. (Scratch, fingerprint etc.)
- Clean the DVD disc and try again.

See instructions described in "Notes on Discs" to clean your disc properly.

- Ensure that the DVD disc is in the drawer with the label uppermost.

- A damp DVD disc or condensation may effect the equipment. Wait for 1 to 2 hours in Stand-by to dry the equipment.

Disc does not play

- No disc in the machine.

Place a disc into the loader.

- Disc incorrectly loaded.

Ensure that the DVD disc is in the drawer with the label uppermost.

- Wrong type of disc. The machine cannot play CD-ROMS etc.
- The region code of the DVD must match the player.

Wrong OSD language

- Select the language in the set-up menu.
- The language for the sound or subtitles on a DVD cannot be changed.
- Multilingual sound and/or subtitles not recorded on the DVD.
- Try to change the sound or subtitles using DVD's title menu. Some DVD's do not allow the user to change these settings without using the disc's menu

Some functions (Angle, Zoom etc) do not work

- These functions are not available on the DVD.
- Angle can only be changed when the angle symbol is displayed.

No picture

- Have you pressed the correct buttons on the remote control? Try once more.

No sound

- Check the volume is set to an audible level.
- Make sure you have not switched the sound off accidentally.

Distorted sound

- Check that the appropriate listening mode setting is correct.

No response from remote control

- Make sure the remote control is in the correct mode.
- Check batteries are fitted correctly.
- Change the batteries.

If nothing works

If you have tried the above solutions and none seem to work, try switching your TV-DVD off and on again. If this does not work, contact your supplier or TV-DVD repair technician. Never attempt to repair a defective TV-DVD yourself.

Definition of Terms

Angle

Recorded onto some DVD discs are scenes, which have been simultaneously shot from a number of different angles (the same scene is shot from the front, from the left side, from the right side, etc.). With such discs, the ANGLE button can be used to view the scene from different angles.

Chapter Number

These numbers are recorded on DVD discs. A title is subdivided into many sections, each of which are numbered, and specific parts of video presentations can be searched quickly using these numbers.

DVD

This refers to a high-density optical disc on which high-quality pictures and sound have been recorded by means of digital signals. Incorporating a new video compression technology (MPEG II) and high-density recording technology, DVD enables aesthetically pleasing full-motion video to be recorded over long periods of time (for instance, a whole movie can be recorded).

DVD has a structure consisting of two 0.6-mm thin discs, which are adhered to each other. Since the thinner the disc, the higher the density at which the information can be recorded, a DVD disc has a greater capacity than a single 1.2 mm thick disc. Since the two thin discs are adhered to each other, there is the potential to achieve double-sided play sometime in the future for even longer duration play.

Subtitles

These are printed lines appearing at the bottom of the screen, which translate or transcribe the dialogue. They are recorded on the DVD discs.

Time Number

This indicates the playtime, which has elapsed from the start of a disc or a title. It can be used to find a specific scene quickly. (Not all discs permit the time search feature to be used. Availability is determined by the disc's manufacturer.)

Title Number

These numbers are recorded on DVD discs. When a disc contains two or more movies, these movies are numbered as title 1, title 2, etc.

Track Number

These numbers are assigned to the tracks, which are recorded on AudioCDs. They enable specific tracks to be located quickly.

Dolby Digital

Many movie theatres are equipped with 5.1 channel surround systems. This same type of technology is available to you in your home. To enjoy full 5.1-channel surround, your DVD player must be connected to an external Dolby Digital decoder via the digital outputs (either coaxial or optical).

Dolby Pro Logic

This is Dolby Laboratories' technology to decode Dolby Surround encoded programs actively. Dolby Surround programs have four channels of audio (Left, Center, Right and Surround) encoded into a standard 2-channel stereo signal. The rear channel is monaural.

LPCM

LPCM stands for Pulse Code Modulation and is digital audio.

MPEG

Short for Moving Picture Experts Group. This is an international standard for compression of moving images. On some DVDs digital audio has been compressed and recorded in this format.

DivX

DivX is a digital video compression technology based on MPEG-4 and developed by DivX Networks Inc.

Supported File Formats for USB & MC Modes

Media	File Extension	Format		Remarks
		Video	Audio	(Maximum resolution/Bit rate etc.)
Movie	.mpg/ .dat/ .vob	MPEG1	MPEG Layer 1/2/3	
		MPEG2	MPEG2	
	.avi	XviD/ 3ivx	PCM/MP3	XviD Version up to: 1.1.2 / DivX 3.1.x, 4.x, 5.x
		MPEG4	PCM/MP3	
Music	-	-	PCM	Sample Rate: 8K ~ 48KHz
	.mp3	-	MPEG 1/2 Layer 1/ 2/ 3 (MP3)	Sample Rate: 8K ~ 48KHz, Bit Rate: 64K~320Kbps
Photo	.jpg	Baseline JPEG		WxH = 8902x8902 up to 77Mega-pixel Support format: 444/ 440/ 422/ 420/ Grayscale
		Progressive JPEG		Up to 4 Mega-pixel Support format: 444/ 440/ 422/ 420/ Grayscale
External Subtitles	.srt			Support Text File Format, but do not support Picture File Format
	.smi			
	.sub			
	.ssa			
	.ass			

Note: Necessary bitrates for some video types are higher than USB limits. For this reason, some video types cannot be played.

Note: It is not guaranteed that all DivX formats are supported.

Supported Memory Card Types

- SD (Secure Digital TM)
- MMC (Multi Media Card TM)
- MS (Memory Stick TM)
- MS PRO (Memory Stick Pro TM)

“Memory Stick” is a trademark of Sony Corporation.






“Secure Digital” is a trademark of SD Card Association.

“MULTIMEDIACARD” is a trademark of MultiMediaCard Association (MMCA).



Disc Types Compatible with This Unit

This player can play the following discs.

Disc Types (Logos)	Recording Types	Disc Size	Max. Playing Time	Characteristics
DVD 	Audio + Video	12 cm	Single - sided; 240 min. Double - sided; 480 min.	<ul style="list-style-type: none"> • DVD contains excellent sound and video due to Dolby Digital and MPEG-2 System. • Various screen and audio functions can be easily selected through the on screen menu.
		8 cm	Single - sided; 80 min. Double - sided; 160 min.	
AUDIO-CD 	Audio	12 cm	74 min.	<ul style="list-style-type: none"> • An LP is recorded as an analog signal with more distortion. CD is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.
		8 cm	20 min.	
MP3-CD 	Audio (xxxx.mp3)	12 cm	It depends on MP3 quality.	<ul style="list-style-type: none"> • MP3 is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.
		8 cm		
PICTURE-CD 	Video (still picture)	12 cm	It depends on JPEG quality.	<ul style="list-style-type: none"> • JPEG is recorded as a Digital Signal with better picture quality over time.
		8 cm		
DivX® 	Audio + Video	12 cm	It depends on DivX quality	<ul style="list-style-type: none"> • Video & Audio with MPEG-4 Compression technology.
		8 cm		

Specifications

DVD / CD / CD-R / CD-RW / MP3 / JPEG / MPEG / DivX player,

Types of Discs Supported	<u>DVD:</u> SS/SL 4.7" (DVD-5) SS/DL 4.7" (DVD-9) DS/SL 4.7" (DVD-10) DS/DL 4.7" (DVD-18) <u>CD-DA</u> <u>CD-R</u> <u>CD-RW</u> <u>MP-3/JPEG</u>
Video Type	MPEG-2 Video Standard Decoding (MPEG-1 supported) Full-Screen Video Display of 720 x 576 (PAL) & 720 x 480 (NTSC) pixels 50 and 60 Hz frame refresh rates (PAL & NTSC) Digital bit-stream processing rate up to 108Mbits/sec Line resolution more than 500 lines
Audio Type	Dolby Digital Decoding MPEG Multichannel Decoding LPCM
Audio Output	<u>Digital Audio Outputs:</u> IEC 958 TOSLINK <u>Analog Outputs:</u> 24 bit /48, 44.1kHz down-sampling DAC

Restricted Warranty

1. General Conditions of Warranty

1. General

This warranty covers defects relating to workmanship and manufacture in MEDION products. The period during which this warranty is valid and during which claims against the warranty can be made to MEDION must be in accordance with the following terms in order to be considered eligible:

- Is effective from the date of purchase or receipt of the MEDION product from an authorised seller of MEDION products; and
- expires at the end of the warranty period specified on the warranty card provided with the product.

For the warranty to be valid, you must:

- provide suitable evidence of purchase, a copy of the original purchase receipt from an authorised seller of MEDION products is preferred; or
- register your product within 28 days of purchase either online at www.MEDION.co.uk or by completing and returning the pre-paid registration card included with the product.

Please keep the original purchase receipt and the warranty card in a safe place. MEDION and its authorised sellers reserve the right to refuse a repair under warranty or a warranty confirmation if a proof of purchase [or registration of purchase] cannot be established, or has not been, submitted.

When it is necessary to return your product for repair please ensure that your product is suitably packed for transportation.

Provided that your product is still within warranty (please check the duration of the warranty period as described above) and is eligible for repair or replacement under the terms of the warranty, to return your product, please telephone MEDION on the service hotline number. You will be sent a pre-paid transportation box suitable for returning your product to MEDION. PLEASE MAKE SURE THAT YOU HAVE A BACKUP COPY OF ALL DATA ON THE PRODUCT BEFORE RETURNING THE PRODUCT TO MEDION. MEDION shall bear the costs of postage and packaging for returning the product and the transportation risk. However, if following examination of the defective product in question, MEDION, in its reasonable opinion, considers that the defect has been caused by:

- your operating and/or using the product other than as instructed in the accompanying documentation;
- damage caused in transit as a result of your negligence in packaging of the product; and/or
- otherwise than in accordance with the terms of this warranty;

This warranty shall be void and you may be required by MEDION to reimburse MEDION for the reasonable costs of postage and packaging before MEDION will return the product to you. If so and you would still like MEDION to repair or replace the product, MEDION may do so but you will be charged MEDION's standard rates for repair and replacement for this service.

Before returning the product, please contact MEDION via the service hotline or via the internet (www.MEDION.co.uk). You will receive a reference number (RMA No.) on the warranty card. Please mark the outside of your package to ensure that this reference number is clearly visible. Please submit a letter containing as much detailed information as possible and, a full description of the defect or fault.

This should include:

- a description of the fault;
- when it occurred, how long it has been evident and how frequently it occurs ;
- any errors message(s) displayed when using the product;

- a description of the circumstance(s) and conditions in which the fault occurs; and
- whether it is an intermittent or persistent fault;

This will greatly assist MEDION in identifying the defect, when submitted together with the defective product.

Unless otherwise instructed by a MEDION representative in all cases, the product must be returned complete with all parts which were included with the original product. Incomplete contents of the returned package may lead to a delay in the repair or replacement. MEDION does not accept any liability for any additionally submitted material(s) which were not supplied with the original MEDION product.

This warranty does not affect your statutory rights in any way and is subject to the applicable legal statutes of the country where the product was sold to you by an authorised MEDION seller.

2. Scope

Subject to any exclusions set out within this warranty, where there is a defect in your MEDION product covered by this warranty, MEDION will repair or replace the MEDION product. The decision whether to repair or replace the product will be made solely at the discretion of MEDION. MEDION may, in its own discretion, replace the product returned for repair under warranty with a replacement product that is either identical or, in the event that such product(s) are no longer available, a product of equal or superior specification and quality.

No warranty is given for batteries or rechargeable batteries or for consumable materials subject to wear and tear, i.e. for parts which have to be replaced periodically during the normal use of the product, such as video-projector lamp.

Non critical failures that fall within industry specified tolerances e.g. noise, LCD pixels are not covered by this warranty. Please consult the appropriate section in your user or instruction manual for this product for exact specifications and tolerances.

To the extent which is permitted under law, MEDION will accept no liability for burnt-in images on plasma or LCD products as a result of normal wear and tear during the operation of the product. Please refer to your user or instruction manual for this product for detailed operating instructions for your plasma or LCD product.

The warranty does not cover errors relating to the playback of data media in an incompatible format or created with unsuitable software.

If it is found during repair or assessment that the defect concerned is not covered under warranty, MEDION reserves the right to invoice you for all reasonable costs incurred by MEDION. These costs will be in relation to the return of the product, including reasonable administration costs, plus reasonable costs for materials used and labour provided when repairing or replacing the product. This is subject to MEDION providing you with an estimate for carrying out such work prior to costs being incurred and that you have accepted the estimate.

You are entitled to seek independent advice or consultation relating to your product or any of MEDION's findings. MEDION will not be liable for any costs incurred to you when doing so.

3.Exclusion from warranty

To the extent permitted by law, this warranty shall be void in the event that defects or loss caused by:

- a. failure and damage resulting from the operation of the product in an environment other than that recommended in the accompanying user or instruction manual (e.g. in direct sunlight or in a damp room);

- b. accidental damage;
- c. use other than in accordance with the accompanying user or instruction manual;
- d. modifications, conversions, expansions, maintenance and/or repairs made to the MEDION product by unauthorised repairers or use of unauthorised third party parts;
- e. negligence;
- f. virus attack or software errors; or
- g. improper transportation or packaging during return of the product.

This warranty will also be considered void if labels or serial numbers of the product or of a component of the product are modified or made illegible.

To the extent permitted by law, MEDION shall; only be responsible for losses which are a reasonably foreseeable consequence of the relevant defect in the product; MEDION will not be responsible for any costs incurred in relation to software configuration; economic loss; loss of opportunity; loss of income; or loss of data or software arising out of its repair or replacement of a MEDION product under this warranty.

4. Service Hotline

Before returning the product to MEDION you must contact us using the service hotline or via the internet (www.MEDION.co.uk). You will receive further instructions for making your claim under warranty when you call.

The service hotline is available on 362 days in the year, including Sundays and bank holidays but excluding Christmas day, New Years Day and Easter day. The service hotline is subject to [national rate] telephone call charges. These charges are subject to change. The price of your call will be stated at the beginning of the call.

II. Special warranty conditions for MEDION PC, notebook, pocket PC (PDA) and navigation devices (PNA)

The following terms apply to MEDION PC, notebook, desktop, pocket PC and laptop products and optional items included with such products. If one of these items has a fault, you also have a warranty claim for its repair or replacement, from MEDION. The warranty covers the costs of materials and labour for repairing or replacing the defective MEDION product or the optional item in question.

Hardware connected to your product that was not produced or marketed by MEDION can invalidate the warranty if MEDION can reasonably demonstrate that damage to the MEDION product or of the optional item included with the delivery was caused by such hardware. You are entitled to seek independent advice or consultation relating to your product or any of MEDION's findings. MEDION will not be liable for any costs incurred to you when doing so.

This warranty is restricted in relation to any pre-installed operating system as well as to application programme software that is included with the MEDION product in question. This warranty is restricted as follows:

For pre-installed operating system as well as to application programme software included in the MEDION product, MEDION only guarantees the data media (e.g. the diskettes and CD-ROMs) upon which this software is delivered and warrants that such data media shall be free from material and processing defects for a period of 90 days from the date of purchase of the MEDION product from an authorised seller of MEDION. MEDION will replace defective data media free of charge.

Any claims in respect of defective pre-installed operating system as well as to application programme software are hereby expressly excluded and you should contact the relevant licensor or copyright owner of the defective software in question. MEDION does not guarantee that any software supplied with MEDION products will function without interruption, will be free from errors or that it will fulfil your requirements. MEDION does not guarantee the 100% accuracy of the maps provided with the Navigation device.

It may be necessary to delete all data in the product in order to repair the MEDION product. PLEASE MAKE SURE THAT YOU HAVE A BACKUP COPY OF ALL DATA ON THE PRODUCT BEFORE RETURNING THE PRODUCT TO MEDION. To the extent permitted by law, MEDION excludes all liability for loss of data and MEDION recommends in all cases that you back up all data on your MEDION product before returning the product to MEDION.

III. Special warranty conditions for repair on site or replacement on site

If a claim for repair or replacement on site is included within the terms of the warranty card provided with the product, the special warranty conditions for repair or replacement of your MEDION product on site apply.

The following provisions must be made by you for carrying out repairs or replacements on site:

- MEDION or its authorised personnel must have unrestricted, safe and immediate access to the products.
- Telecommunication facilities required by MEDION or its authorised personnel for proper execution of your order, for testing and diagnostic purposes and for remedying faults are provided by you at your own expense.
- You are responsible yourself for restoring the application software after the repair services have been carried out by MEDION or its authorised personnel.
- You must take all other necessary steps to enable MEDION or its authorised personnel to carry out your order properly.
- You are responsible yourself for connecting and configuring any existing external peripheral products after MEDION or its authorised personnel have carried out their repairs.
- The free cancellation period for repairs or replacements on site is 24 hours, thereafter our reasonable costs resulting from late or missing cancellation shall be invoiced at your expense.

MEDION[®]

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(costs 7p/min from a BT landline, mobile costs may be higher)

To contact us by email please visit the "Service and Support" section of our website at

www.medion.co.uk