

OPERATING INSTRUCTIONS

LCD22-921

COLOUR TELEVISION WITH REMOTE CONTROL



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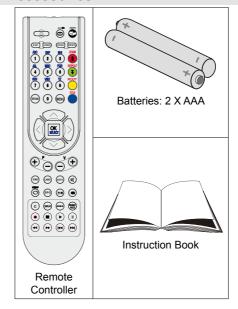


Features

- 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 (Digital TV).
- · 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



Introduction

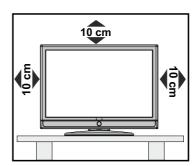
Thank you for choosing this product. This manual will guide you for the proper operation of your TV. Before operating the TV, please read this manual thoroughly.

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.



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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 VAC, 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.



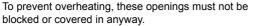
If any solid object or liquid falls into the cabinet, unplug the TV and have it checked by qualified personnel before operating it any further.

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.



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.



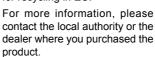
Waste Disposal

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 metalfree, 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.





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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).

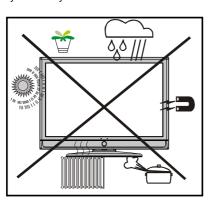
LCD Screen

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.







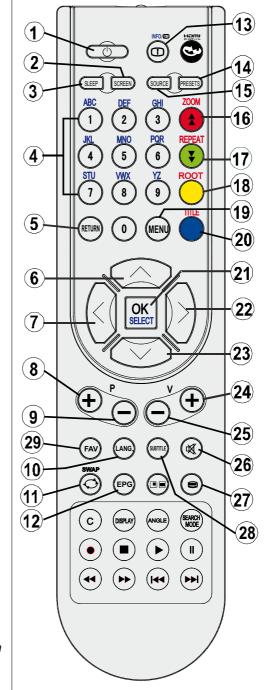
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Overview of the Remote Control

- 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 (*This button is used to select the different functions of the TV please see* **page 11**)
- 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.



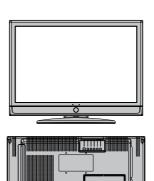


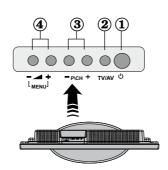
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LCD TV and Operating Buttons

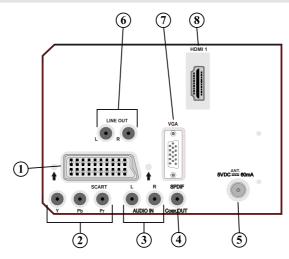




- 1. Power On/Off Switch
- 2. TV/AV button
- 3. Programme Up/Down buttons
- 4. Volume Up/Down buttons

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

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 on the TV and the component video outputs of your device. While connecting, be sure that the letters on your TV, "Y", "Pb", "Pr" correspond with your device's connectors.
- PC/YPbPr Audio Inputs are used for connecting audio signals of a PC or a device that connects to the TV via YPbPr.
 - Connect the PC audio cable between the **AUDIO INPUTS** on the TV and audio output of your PC to enable PC audio.

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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 illustrationin the following pages.
- **6. Audio Line Outs** output audio signals to an external device such as an optional sound system. To connect the external speakers to your TV, use **AUDIO LINE OUTS** of the TV with an audio cable. *Note: Line out feature cannot be used while in HDMI source. You can use SPDIF instead.*
- 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

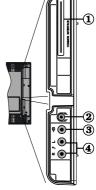
HDMI Input is for connecting a device that has an HDMI socket.

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 signals. No sound connection is needed for an HDMI to HDMI connection.

Viewing the Connections - Side Connectors

- 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.
- 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).
- 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.







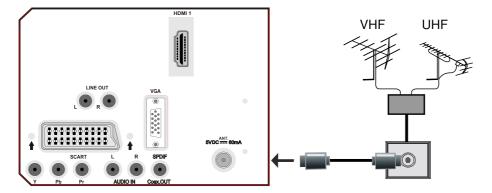
Power Connection

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.







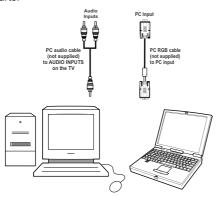
English -8-



Connecting the LCD TV to a PC

For displaying your computer's screen image on your LCD TV, you can connect your computer to the TV set.

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



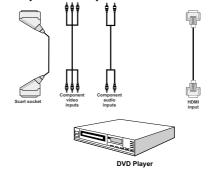
Connecting to a DVD Player and external sources

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.



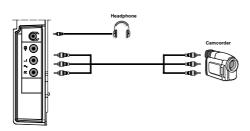


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Using Side AV Connectors

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.

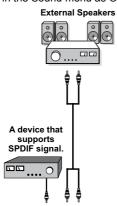
- For connecting a camcorder, connect to the VIDEO IN socket and the AUDIO SOCKETS. Do not connect the camcoder to VIDEO IN socket at the same time since it can cause noise in the picture. For selecting the related source, see the section "Input selection" in the following parts.
- To listen the TV sound from headphones, connect to the HEADPHONE jack of the TV.



Using Other Connectors

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

- To connect external speakers, use an audio cable. Do not reverse the AUDIO LEFT and AUDIO RIGHT jacks. Turn on the LCD TV and external speaker set after all connections are made. Refer to your speaker 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.

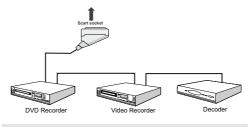


Connecting Other Equipment via Scart

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.

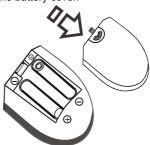
Power off both the TV and the devices before making any connections.

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.

Remote range is approximately 7m/23ft.

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Switching the TV On/Off

To Switch the TV On

- Connect the power cord to the 220-240V AC, 50 Hz.
 Then the standby LED lights up.
- To switch on the TV from standby mode either:
- Press the "O" button, P+ / P- or a numeric button on the remote control.
- Press the STANDBY button, -P/CH or P/CH+ button on the TV. The TV will then switch on.

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

By either method the TV will switch on.

To Switch the TV Off

- Press the "O" button on the remote control or press the STANDBY switch on the TV, so the TV will switch to standby mode.
- 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

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 submenu 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 Vbutton 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 och 299 (for Digital TV) eller 10-199 (för analog), press the numeric buttons consecutively. The limit of the delay time is 3 seconds.
- Press directly the programme number to reselect single digit programmes.

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Initial Settings

When the TV set is operated for the first time, the Digital TV 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 "\nstackspace" or "\textstackspace" or "\textstackspace" or "\textstackspace" or "\textstackspace" or button. After then, "First time installation" OSD will appear on the screen. By pressing "\square\textsform or "\textsform" 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 "\(\Pi \)" or "\(\rightarrow \)" buttons, set active antenna mode as on or off.



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 select the "Yes" or "No" option, highlight the item by using "◄" or "▶" buttons and press the OK button. The Digital TV 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. Analogue search menu will be displayed.



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.

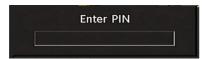
Information Banner

- 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:



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

If the selected channel is locked, you must enter the correct four 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. 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 boradcast.

 Press "0" button on the remote control to view Guide Search menu. Using this feature, you can search the programme guide database.

Displaying Subtitles

Press the "**MENU**" button to display the main menu, highlight the **Setup** and then **Language** menu using "**V**" or "**A**" 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)

- Press the button.
- The digital teletext information appears.
- Operate it with the coloured buttons, cursor buttons and **OK** button.

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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 change zoom mode.

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.

Dijital TV Menu System

The Digital TV 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.

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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.



 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.

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

Adding Locks to Channels

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

Select the channel to be locked by highlighting it and select the Lock option by pressing "\(\Pi \)" or "\(\Pi \)" 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 "lil" will now be displayed next to the selected channel. Repeat the same operation to cancel the lock.

Setting Favourites

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:

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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.

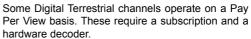
Repeat: You can set a timer to be repeated as Once, Daily or Weekly.

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:





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.

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- Some CAMs may require the following set up. Please set the CAM by entering the Digital TV 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 Digital TV; 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.



AC3 Audio (* for EU countries only)

In the Configuration Menu, highlight the AC3 Audio item by pressing "▼" or "▲" buttons. Use the "◀" or "▶" buttons to set the AC3 Audio as On or Off.

If the channel that you are watching supports AC3 Audio, 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 " \blacktriangleleft " or " \blacktriangleright " 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

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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 pres OK to commence upgrade.
- After the search progress is completed, the message "Completed searching for upgrade. No new software was found" appears on the screen if no new software is found.
- 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 "\nsigma" or "\nsigma" buttons to go to Menu Lock option. Use "\nsigma" or "\nsigma" 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. 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

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.

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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. 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 " \blacktriangleleft " or " \blacktriangleright " 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 decrased 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.
- **Guide**: By pressing "◀" or "▶" buttons change the guide language.

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 "\nsland" or "\texts" buttons. Press OK and Language Settings submenu will be displayed on the screen:

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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

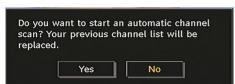
The Installation menu is mainly intended to help you for creating a Channel Table in the most efficient way. Select Installation from the Configuration menu by pressing "\nscalebar" or "\textstar" buttons.



Automatic Channel Scan

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

The following message appears on the screen:



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

If Yes is selected, automatic search starts.

Selecting No cancels automatic search.

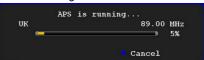
After search is completed for digital channels, a message asking whether to search for analogue channels appears on the screen:



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 "\nstar" or "\nstar" and "\nstar" 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.

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 "\rightarrow" or "\rightarrow" 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

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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

This process is same as described in Automatic Search section.

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 "▼" 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 "V" or "A" button to select **Noise Reduction.**Press "V" or "V" 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.

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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 " \mathbf{V} " or " \mathbf{A} " 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

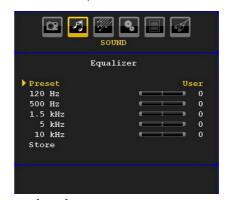


Volume

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 " \P " or " \P " 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 "\nsigma" or "\texts" button and increase or decrease the frequency gain by pressing "\nsigma" or "\nsigma" button.

Press the " \mathbf{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.

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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 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 " \blacktriangledown " or " \blacktriangle " button to select Language. Use " \blacktriangleleft " or " \blacktriangleright " 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 "V" or "A" button to select **Menu Background**. You can set menu background level by pressing "V" or "V" 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 "V" or "A" button to select **Menu Timeout**. Use "\[\sigma \]" 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.

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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.

Note: If you connect an HDMI device and switch the TV to HDMI mode, this feature will be visible (except for 1080i/1080P resolution).

Full Mode (optional)

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

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.

Rand

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 "V" or "\(^x\)" button to select Colour System. Use "\(^x\)" 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 "V" or "\Lambda" button to select Search. Use "\sqrt{n}" or "\times" 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:



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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:



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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, Feature and Source settings are identical to the settings explained in Analog TV menu system.

Displaying TV Information

Programme Number, Programme Name, Sound Indicator and Zoom Mode information is displayed on the screen when a new programme is entered or "INFO" button is pressed.

Mute Function

Press "X" 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 "X" 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.

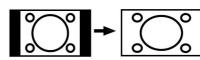
Auto

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.

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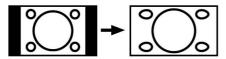
4:3

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.



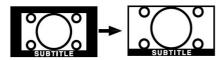
Cinema

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



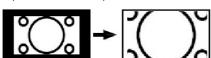
Subtitle

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 "\nsigma" / "\textit{\textit{A}}" buttons while picture zoom is selected as panaromic, 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 **FASTEXT** and **TOP text** systems. When these systems are available, the pages are divided into groups or topics.

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

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

Teletext Subtitle

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 "\nstar" or "\nstar" button and then by pressing OK button.

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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 ℜ 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.









Battery

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.

Information for Users on Disposal of Old Equipment and

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

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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.

	Resolution		Frequency		
Index	Hor	Ver	Ver (Hz)	Hor (KHz)	Standard
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

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

Source	Supp Sigr		Available
	PAL 5	0/60	0
EXT-1 (SCART)	NTSC 60		0
	RGB 50		0
	RGE	8 60	0
FAV	PAL 5	60/60	0
FAV	NTS	C 60	0
	4801	60Hz	0
	480P	60Hz	0
	5761	50Hz	0
	576P	50Hz	0
YPbPr	720P	50Hz	0
TPDPI	720P	60Hz	0
	10801	50Hz	0
	10801	60Hz	0
	1080P	50Hz	0
	1080P	60Hz	0
	4801	60Hz	0
	480P	60Hz	0
	5761	50Hz	0
	576P	50Hz	0
HDMI4	720P	50Hz	0
HDMI1	720P	60Hz	0
	10801	50Hz	0
	10801	60Hz	0
	1080P	50Hz	0
	1080P	60Hz	0
	1080P	24 HZ	0



(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 expereince such a problem please contact your dealer and also the manufacturer of the source equipment.

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Specifications

TV BROADCASTING

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

RECEIVING CHANNELS

VHF (BAND I/III)

UHF (BAND U)

HYPERBAND

	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	
Digital Reception	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 4

POWER CONSUMPTION (W)

70 W (max)

< 1 W (Standby)

PANEL

22" Wide Display

DIMENSIONS (mm)

DxLxH (With foot): 117 x 532 x 376

Weight (Kg): 5,40

DxLxH (Without foot): 60 x 532x 347

Weight (Kg): 5,25

(

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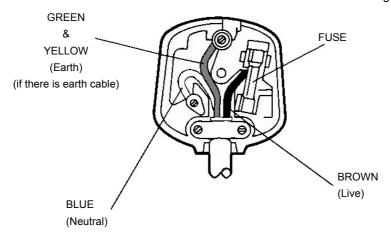


Important Instruction

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.

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Features

General Properties

- DVD / CD / CD-R / CD-RW / MP3 / JPEG / MPEG.
- · USB & MC inputs.
- NTSC/PAL playback (according to disc content)
- User-friendly multilanguage OSD menu control.

DOLBY

- 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 pickup 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.

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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.





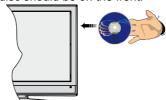
 Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.

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

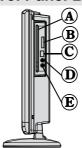
When placing a disc into the loader, labeled side of the disc should be on the front:



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.

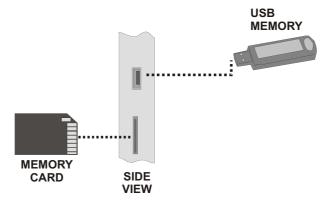
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Using Digital Multimedia Connectors

- 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.

IMPORTANT: The TV supports only FAT32 disk formatting. NTFS format is 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..



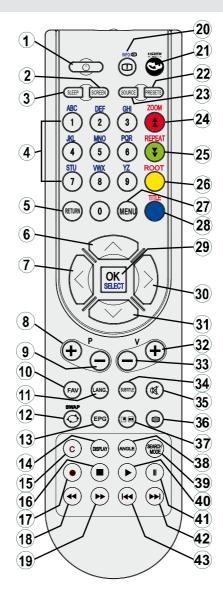
Note: While in DVD mode, MEDIA screen will be displayed automatically when you plug USB or insert a valid memory card.

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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





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

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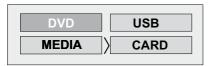




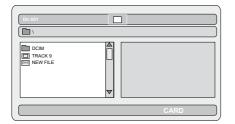
USB & MC Modes Playback

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 "▼" / "A" / ▼ 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 "O" symbol appears.

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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.

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 (II) once during play.

The screen freezes.

To return to normal play press PLAY (>).

Frame Advance (STEP FORWARD)

Press PAUSE (II) 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 (II) once during play.

The screen freezes.

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

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.

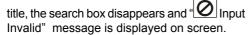
For your convenience:

- 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

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- 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 ollows: 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.

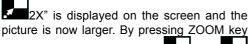
Displaying a scene with a larger and closer view

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.

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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 "\(\text{"} (Left) \) or "\(\text{"} (Right) / "\(\text{"} " (Down) / "\(\text{"} " (Up) \) 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 "O" 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 multiangle 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.

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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 (III) once during play. The screen freezes.

Press (►►I) 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 (**III**) once during play. The screen freezes.

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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 diplayed.

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 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 File

Selected MP3 / MPEG 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.

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Audio CD Track:

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

PAUSE

Press PAUSE (**III**) 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 File: CD MENU is displayed.

Rapid Advance (Rapid Reverse)

MP3/MPEG CD Track:

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



32x are the play speed modes.

Skipping Ahead or Back to Tracks

Next file in the current directory will be played. Press SKIP/ FRAME ((I◄◄ / ▶►))) 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 $(\blacktriangleleft) / (\blacktriangleright) / (\blacktriangledown) / (\blacktriangle)$ 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 and Audio CD track playback.

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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 \P/ \triangle 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.

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



DFFAUI T

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.

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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 Standby 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.

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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.

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Supported File Formats for USB & MC Modes

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





Supported Memory Card Types

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



- "Secure Digital" is a trademark of SD Card Association.
- "MULTIMEDIACARD" is a trademark of MultiMediCard Association (MMCA).







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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	12 cm	Single - sided; 240 min. Double - sided; 480 min.	DVD contains excellent sound and video due to Dolby Digital and MPEG-2 System.
VIDEO	Video	8 cm	Single - sided; 80 min. Double - sided; 160 min.	Various screen and audio functions can be easily selected through the on screen menu.
AUDIO-CD		12 cm	74 m in .	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.
DIGITAL AUDIO	Audio	8 cm	20 min.	
M P 3 - C D		12 cm	It depends	MP3 is recorded as a Digital Signal with better audio quality, less distortion and
MPS READABLE	Audio (xxxx.mp3)	8 cm	quality.	less deterioration of audio quality over time.
PICTURE-CD	Video		It depends	 JPEG is recorded as a Digital Signal with
JPEG READABLE	(still picture)	8 cm	quality.	better picture quality over time.







Specifications

DVD / CD / CD-R / CD-RW / MP3 / JPEG / MPEG

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)			
	CD-DA CD-R CD-RW MP-3/JPEG			
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			
	Analog Outputs: 24 bit /48, 44.1kHz down-sampling DAC			



















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