LOGIK

LDVR1608
DVD RECORDER

USER MANUAL

TABLE OF CONTENT

ABOUT THIS MANUAL

Instructions in this manual describe the controls of the DVD Recorder. You can also use the remote control buttons with the same name as those on the unit.

Dear Customers

We would like to thank you for purchasing this DVD+R/RW and DVD-R/RW Recorder.

We strongly recommend that you carefully study the operating instructions before attempting to operate the unit and that you note the listed safety precautions.

IMPORTANT SAFEGUARDS

Power Cord

Do not place the unit, a piece of furniture, etc., on the power cord (mains lead), or pinch the cord. Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet 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 routed in such a way that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask closest service agent for help. When the AC power cord need to be changed, it should be done at a qualified service shop only.

This unit is designed to operate on a 220-240V~ 50Hz supply only. Connecting it to other power sources may damage it. Ensure that the supply corresponds to the information on the rating label on the bottom of the unit.
This component system may be fitted with a non-rewireable plug. If it is necessary to change the fus in a non-rewireable plug the fuse cover must be refitted. If the fuse cover becomes lost or damaged, the plug must not be used until a replacement, available from the manufacturer, is obtained. It is important that the colour of the replacement fuse cover corresponds with the colour marking on the base of the plug.
If the plug needs to be changed because it is not suitable for your socket, or becomes damaged, it should be cut off and an appropriate plug fitted following the wiring instructions below. The plug must then be disposed of safely, as insertion into a 13A socket is likely to cause an electrical hazard.

IMPORTANT

The wires in the mains plug should be connected as shown in the diagram.
The colours of the wires in the mains lead of the unit may not correspond with the coloured markings identifying the terminals in your plug. Connect them as follows:-
The wire which is coloured blue must be connected to the terminal which is marked with the letter 'N' or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter 'L' or coloured red.
There should be no connection to the earth terminal of your plug.
If you use a 13 Amp (BS1363) plug, you will need a 5 Amp fuse.

How to replace the fuse
Open the fuse compartment with a blade screwdriver, and replace the fuse.

When replacing the fuse in the plug use ASTA approved 5 AMP fuse and be sure to re-fit the fuse cover.

If the plug supplied with this equipment has a detachable fuse cover, be sure attach the fuse cover after you change the fuse. Never use the plug without the fuse cover.

If you should lose the fuse cover, please contact your nearest service station.

If in doupt – consult a competent electrician how to replace the fuse
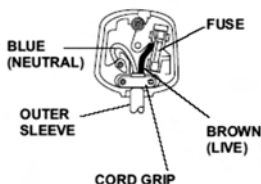
This symbol means that this unit is double insulated. An earth connection is not required.

DANGER

LASER SAFETY

CAUTION : USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK FAILED OR DEFEATED. AVOID DIRECT EXPOSURE TO BEAM
This unit employs a laser. Only a qualified service person should remove the cover or attempt to service

CAUTION

To prevent electric shock, disconnect from the mains before removing cover.No user serviceable parts inside. Refer servicing to qualified service personnel.

<u>**SAFETY INFORMATION**</u>

<u>**CAUTION**</u>

	LASER CLASS 1	
CLASS 1 LASER PRODUCT	Wave Length	: 650 nm ±15nm (DVD) 790 nm ±15nm (CD)
	Maximum output of accessible laser radiation	: < 0,39 mW (continuous wave)
	Classified according to IEC 60825-1	: 1993 + A1 : 1997

This unit 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 recorder correctly as instructed.

While this recorder is plugged to the wall outlet, do not place your eyes close to the opening of the disc tray or other openings to look inside the recorder for your own safety.

Use of performance control or adjustment procedures other than those specified may result in hazardous radiation exposure. Do not open the covers and do not attempt to repair any damaged parts. Please refer to a service technician or qualified personnel for any necessary repairs.

<u>**WARNING**</u>

To reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture.

To reduce the risk of fire or electric shock, and any interference, use the recommended accessories only.

Do not move your device for 20 seconds after removing AC power to ensure that the Hard Disk Drive (HDD) is completely locked. This helps prevent the media and the heads from accidental damage due to vibration, moving or shipping.

The device shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

The mains plug or the appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable and easily accessible.

WARNING
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.

SAFETY PRECAUTIONS

Power Source

The unit should be operated only from a 220-240V~ 50 Hz outlet. Please do not open the cover by yourself. There is high voltage in the set, which will endanger your life. Please contact local service agent for help and advice. Repairs to be carried out by a qualified technician only.

• The apparatus is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the apparatus itself has been turned off.

• If you are not going to use the apparatus for a long time, be sure to disconnect the apparatus from the wall outlet.

IMPORTANT NOTE: The voltage markings and other safety markings are found on the under or rear side of the appliance.

Choice of Location

• Please do not place the set in a place subject to direct sun light, excessive dust or mechanical shock or in a location near heat sources.

• The set should be placed on a solid and safe base. Do not place the apparatus on a soft surface such as a rug that might block the ventilation holes on the bottom.

• A location should not be selected such as a room with high humidity, as the condensation, arising in the kitchen for example, may cause malfunction or damage the set.

• Heating or other thermal radiation under the set also may cause malfunction or damage the set.

• The hot air, which arises during the operation, should be ventilated with sufficient air circulation. Please do not put the set into closed areas and do not cover it.

• Please avoid the contact of the set with water or humidity. Do not put into operation near bath, swimming pools.

• Take care to provide a good air circulation. Place the apparatus in a location with adequate ventilation to prevent heat build-up in the apparatus.

• Should any solid object or liquid fall into the cabinet, unplug the apparatus and have it checked by qualified personnel before operating it any further.

SAFETY PRECAUTIONS

PROPER VENTILATION

CAUTION

•Do not block the ventilation openings or holes.

(If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)

•Do not place any naked flame sources, such as lighted candles, on the apparatus.

•Do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

•Use this apparatus in moderate climates.

Caution:

To avoid risk of electric shock and fire and to protect from damage.

Locate the apparatus as follows:

Front: No obstructions and open spacing.

Sides: No obstructions within 3 cm from the sides.

Top: No obstructions within 5 cm from the top.

Back: No obstructions within 15 cm from the back

Bottom: **No obstructions, place on a level surface.**
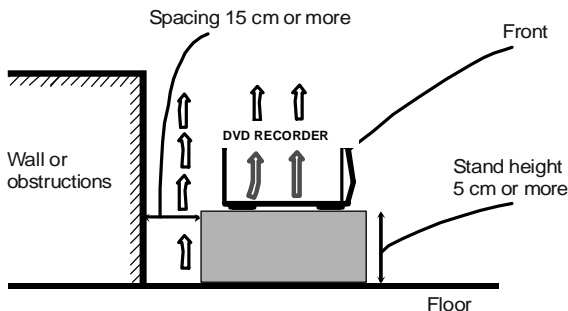
GENERAL PROPERTIES

1) DVD+R/RW, DVD Video, DVD-R/RW, Audio CD, (S)VCD, CD-R/RW, MP3 , JPEG, playback, DVD+R/RW and DVD-R/RW Dual Media recording.
2) Integrated FreeView Digital Terrestrial Receiver
3) Up to 60 minutes timeshift mode.
4) 160 GB hard disk
5) Vacuum Fluorescent Display (VFD)
6) User-friendly OSD menu control
7) Recording onto hard disk and playback from hard disk (another title) simultaneously
8) Recording onto hard disk and playback a DVD simultaneously
9) Title copying from HDD onto DVD (Dubbing)
10) Dubbing to DVD and Time shifting simultaneously
11) NTSC/PAL playback (according to disc content) and recording
12) Recording in different qualities (HQ, SP, LP, EP, SLP)
13) One Touch Recording
14) Auto title menu with thumbnail index pictures
15) Finalize for DVD+R and DVD-R/ DVD-RW disc
16) 7 Day Electronic Program Guide (EPG)
17) Adding chapter markers, appending, overwriting, deleting titles (For DVD)
18) Hide/unhide chapters (For DVD)
19) Rename, delete, split, segment, lock and protect titles on hard disk
20) Recording with timer
21) Dolby Digital, LPCM audio via coaxial & optical digital audio outputs
22) Multiple Aspect Ratio support (16:9 Widescreen, 4:3 Letterbox, 4:3 PAN&SCAN)
23) Multi-Audio (up to 8) support (According to disc content) (For DVD)
24) Multi-Subtitle (up to 32) support (According to disc content) (For DVD)
25) Multi-Angle (up to 9) support (According to disc content) (For DVD)
26) 8 level parental control
27) Fast forward and rewind in 5 different speeds (2x, 4x, 8x, 16x, 32x Fast Forward/Backward)
28) For DVD; frame by frame forward playback
29) For DVD / (S)VCD; slow forward playback (1/2x, 1/4 x, 1/8x Slow Forward)
30) Maximum 5K*5K resolution for baseline, 1280*1024 resolution for progressive JPEG playback
31) 32-320 kbit bit rate for MP3 playback
32) Repeat modes (Disc, Chapter, Title, Track, Folder)
33) A → B repeat
34) Program function for Audio CD, MP3, JPEG and MPEG
35) Simultaneous playback of audio and pictures
36) Pause recording
37) Low power standby mode support
38) FreeView Antenna input / output (loop through)
39) 2 SCART socket
40) Composite Video input/output
41) Coaxial and Optical Digital Audio outputs

NOTES ON CD-R/RW, DVD-R/RW AND DVD+R/RW DISCS

- CD-R, DVD-R, DVD+R (Recordable) and CD-RW, DVD-RW, DVD+RW (Rewritable) discs, recorded on the equipment by the users, may only be used after finalization process.
- CD-R/RW, DVD-R/RW and DVD+R/RW discs may not be usable, depending on the disc features, recording conditions and damage or dirt on disc. The disc configuration and features are determined by the tool and device used for recording. Therefore, users may face the following undesired consequences:
  - Some discs may not be read at all
  - Some discs may cause the system to crash after playing for a while
  - Some parts of the disc may be skipped or work abnormally
- Compare with the original discs, the time passed for reading a CD-R/RW, DVD-R/RW and DVD+R/RW discs may be longer.
- This DVD player may not support some MP3 recordings due to differences in recording formats or disc type.
- Please read the user's manual MP3 playback.
- CD-R/CD-RW discs recorded by CD-DA method can be played. Some CD-R/CD-RW disc may be incompatible due to laser pick-up and disc design.
- DVD-R discs recorded by DVD-Video method can be played. Some DVD-R discs may be incompatible due to laser pick-up and disc design.
- Some discs may be incompatible with JPEG Viewer function due to different recording format or condition of the disc.

NOTES ON DISCS

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.

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.
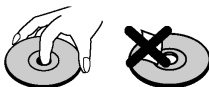
On cleaning:
• Before playing, clean the disc with a cleaning cloth. Wipe the disc from the inside   to the outside.
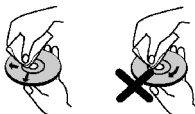
• Do not use solvents such as benzene, thinners, commercially available cleaners or anti-static spray intended for vinyl LPs.

Discs that should not be used:

Only the discs including the marks (See Supported Discs - Page 13) can be played.
NOTE: However, that discs with special shapes (heart-shaped discs, hexagonal discs, etc.) cannot be played. Do not attempt to play such discs, as they may damage the unit.

NOTE:
Do not use record spray or antistatic. Also do not use volatile chemicals such as benzene or thinner.
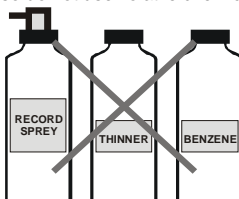
CONNECTION

Antenna Connection
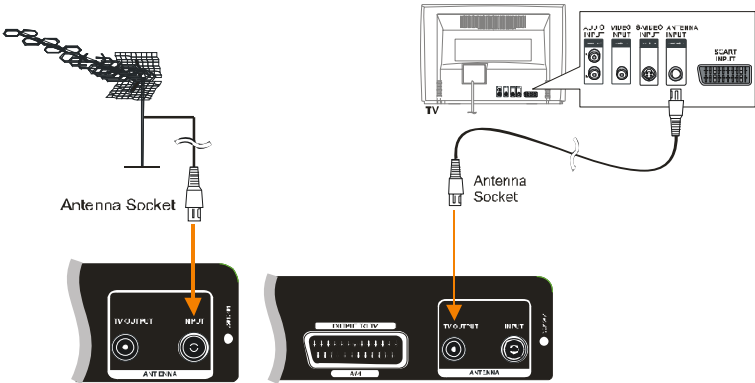
VIDEO & AUDIO OUTPUT SOCKETS
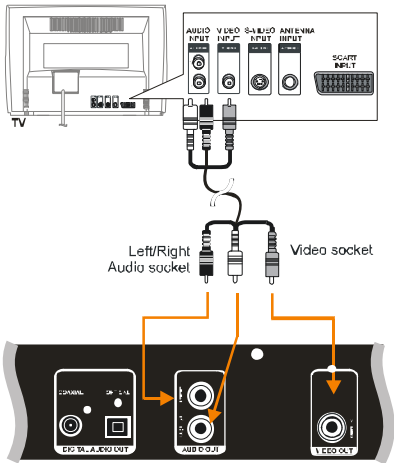
Analog Audio Connection

Hi-Fi

Left/Right
Audio socket
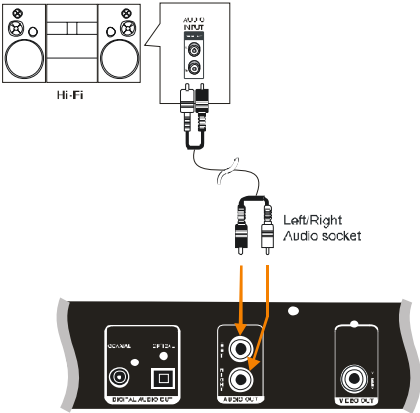
Digital Audio Connection

Digital A/V Receiver, A/V Amplifier

Coaxial Digital
Audio socket

Optical Digital
Audio socket

Scart Connection

Scart connection to TV

Scart connection to A/V Receiver
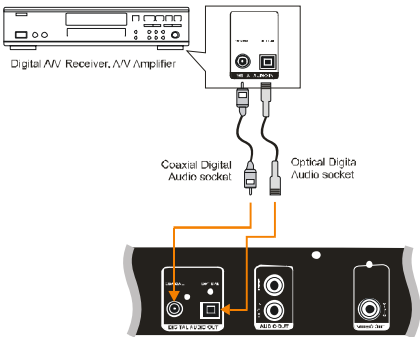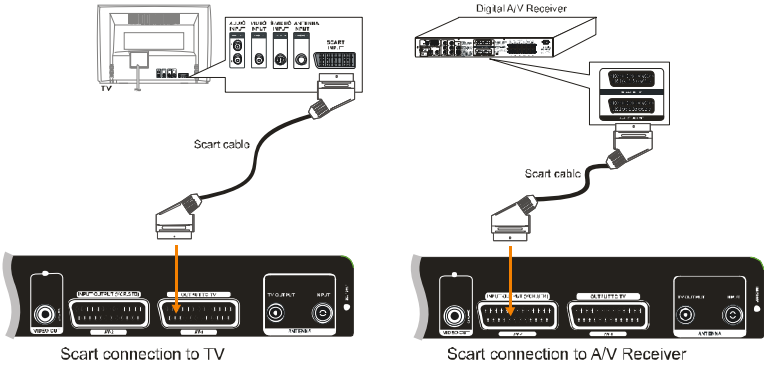
Connect Camcorder to the Front Sockets of DVD Recorder
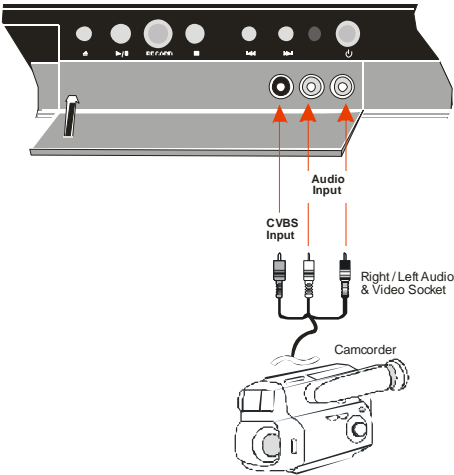
SUPPORTED DISCS

Playback and Recording
DVD+RW (Digital Versatile Disc+ Rewritable)
DVD+R (Digital Versatile Disc+ Recordable)
DVD-RW (Digital Versatile Disc- Rewritable)
DVD-R (Digital Versatile Disc- Recordable)

Playback only

Disc Types (Logos)	Recording Types	Disc Size	Max. Playing Time	Characteristics
DVD	Audio + Video	12 cm	Single - sided; 240 min. Double - sided; 480 min.	• DVD contains excellent sound and video due to Dolby Digital and MPEG-2 System.
		8 cm	Single - sided; 80 min. Double - sided; 160 min.	• Various screen and audio functions can be easily selected through the on-screen menu.
VIDEO-CD	Audio + Video	12 cm	74 min.	• Video with CD sound, VHS quality and MPEG-1 compression technology.
		8 cm	20 min.	
AUDIO-CD	Audio	12 cm	74 min.	• An LP is recorded as an analogue signal with more distortion. CD is recorded as a digital signal with better audio quality, less distortion and less deterioration of audio quality over time.
		8 cm	20 min.	
MP3-CD	Audio (xxxx.mp3)	12 cm	It depends on MP3 quality.	• MP3 is recorded as a digital signal with better audio quality, less distor - tion and less deterioration of audio quality over time.
		8 cm		
PICTURE-CD	Video (still picture)	12 cm	It depends on JPEG quality.	• JPEG is recorded as a digital signal with better picture quality over time.
		8 cm		

1. THE REMOTE CONTROL

STANDBY	: To switch the set ON or OFF.
OPEN/CLOSE	: To Open/close the disc tray.
PLAY MODE / RED	: For MP3, CD-DA, JPEG and MPEG tracks switches between play modes. In FreeView mode move up a page through channel list. It is used to select RED option in digital Teletext.
ZOOM /BLUE	: Enlarge the image. In FreeView mode move down a page through channel list. Move to bottom in EPG program details. It is used to select BLUE option in digital Teletext.
REPEAT / GREEN	: To play titles, chapters and tracks repeatedly. In FreeView mode, scroll up through EPG program details. It is used to select GREEN option in digital Teletext.
A-B / YELLOW	: Repeat a selection from point A to point B. In FreeView mode, scroll down through EPG program details. It is used to select YELLOW option in digital Teletext.
TITLE / GUIDE	: If DVD supports, to choose the title menu in DVD discs. Display and exit EPG in FreeView mode.
DISPLAY/ INFO	: Opens Display menus. Opens Display menu Help in FreeView mode.
TEXT	: Start and stop digital text.
MENU	: Displays the DVD or (S) VCD menu. In FreeView mode, displays FreeView system menu.
SETUP	: It opens and closes the system-menu.
RETURN / EXIT	: Returns to previous menu on a video CD. Also for CD Menu and Setup menu, it returns to the upper folder.
WATCH TV	: To switch to monitor mode.
SELECT	: Select function/value.
ARROW BUTTONS	
(◀ / ▶ /▲/▼)	: To navigate inside menus.
PLAY/PAUSE (►/ ❙❙)	: Playback a disc. If this button is pressed during playback or recording, operation is paused. Also use this button to switch to disc playback from the beginning in monitor mode. For any DVD title that has a root menu with still picture, this button functions as "button select" (selects highlighted item) in the root menu. Otherwise this functioning of "play/pause" button on the root menu will be prohibited by the disc, and will appear.
STOP (■)	: Stop playback/recording.
SKIP (◀◀)	: Press this button during playback: Previous chapter/ film or previous file.
SKIP (▶▶)	: Press this button during playback: Next chapter/ film or next file. Press this button during pause mode: Shows next frame at each press.
SEARCH (►►) (◄◄)	: Fast forward and fast backward in x2, x4, x8, x16 and x32. Slow forward in Pause state.
REC MODE	: Select quality and duration of recording.
FAV	**:** It enables/disables the Favorite Mode.
TV/DVD	: Enables/disables the SCART socket output to the TV set. This lets you watch another program via TV set while DVD recorder is recording another program or source without unplugging the SCART cable.
RECORD/DUB	: Records the selected video source or start dubbing and resumes paused recording. Activates One-Touch-Recording while recording is in progress.
INSERT CHAPTER	: Inserts a chapter manually to recording media during recording or playback of recorded content at Edit mode.
SUBTITLE	: If DVD supports, changes the subtitle language, turns it on or off. Also used to switch DVB subtitles on and off if the channel provider supports.
VIDEO SOURCE	: Switches the video source in the order of FreeView Input, SCART Input, Front CVBS, Front.
AUDIO	: If DVD supports, switches between audio formats during DVD playback. Also used to change DVB audio language if the channel provider supports.
ANGLE/WIDE	: Selects the angle to view the scene. This only works when multiple angles are provided for a scene. Selects screen format in FreeView mode.
TIMER	: To program a recording or to alter/clear pre-programmed recordings.
NUMERIC BUTTONS (0- 9)	: 0 - 9. Also used for channel rename in FreeView mode.
ADD/CLEAR	: Add files to make playlist in PROGRAM play mode, remove files from playlist. Also erases the number you previously entered.
PROGRAM+	: Tunes to next program while watching TV.
PROGRAM-	: Tunes to previous program while watching TV.
SEARCH MODE	: Press to move to any desired title/chapter/track/time within the disc.
HDD/DVD	: Switch between harddisk title list window and play disc.
FUNCTION	: Opens Functions menu.
V+	: Increases volume
V-	: Decreases volume
MUTE	: Mutes function

1.1.1 PREPARING THE REMOTE CONTROL FOR OPERATION

The remote control and its batteries are packed separately in the original DVD recorder packaging. You must install the batteries in the remote control before use.

- ➢ Take the remote control of the DVD recorder and the enclosed batteries (2 x 1.5 V batteries)(R03/AAA)
- ➢ Open the battery compartment, insert the batteries as shown and then close the compartment.
- ➢ The remote control range is approximately 5 to 10 meters.
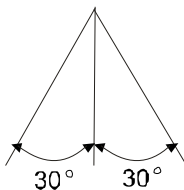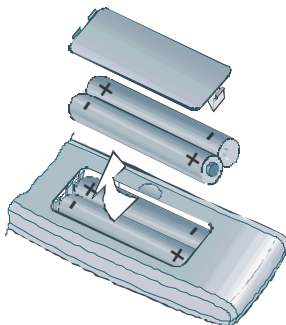
Within About 5-10m infront of the device

1.2 FRONT PANEL FUNCTIONS
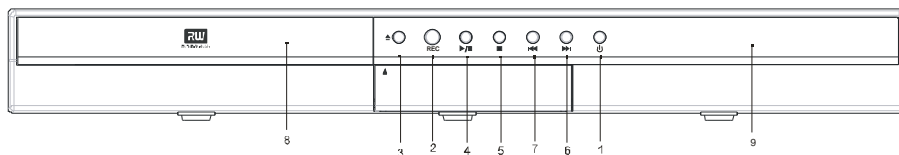
1.	**STANDBY**		: Switches the set ON or OFF.
2.	**RECORD**		: Records the selected video source or start dubbing, and resumes paused recording. It activates One-Touch-Recording while recording is in progress.
3.	**OPEN/CLOSE**	▲	: Opens/closes the disc tray.
4.	**PLAY/PAUSE (▶ / ‖)**		: Playback a disc. If this button is pressed during playback or recording, operation is paused. For any DVD title that has a root menu with still picture, this button functions as "button select" (selects highlighted item) in the root menu. Otherwise this functioning of "play/pause" button on the root menu will be prohibited by the disc, and will appear.
5.	**STOP(■)**		: Stops playback/recording.
6.	**SKIP FORWARD (▶▶)**		: Plays next chapter/ title/ track/ file.
7.	**SKIP BACKWARD (◀◀)**		: Plays previous chapter/ title/ track/ file.
8.	**DISC TRAY**		: Place a disc on the tray.
9.	**Front Panel Display (VFD)**		: Indicates the playing time, title, chapter/track etc.

1.3 FRONT PANEL CONNECTIONS
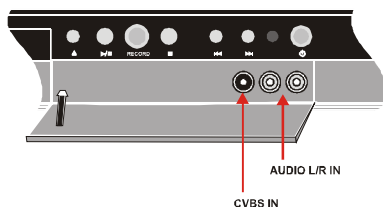
CVBS in: Video input socket: Connection of composite video source (camcorders, video recorders, set top box).
AUDIO L/R in: Left/Right audio input socket: L/R Audio inputs are used for both CVBS.

1.4 REAR PANEL CONNECTIONS

ANTENNA INPUT	: Aerial input : Connection of the aerial antenna.
ANTENNA TV OUTPUT	: Connection to the TV set.
OUTPUT TO TV	: SCART Socket 1(AV1): Connects to the scart-input connector on the TV. RGB output.
INPUT/OUTPUT (VCR, STB)	: SCART Socket 2(AV2): Connection of an external device (satellite receiver, set-top box, video recorder, camcorder, etc.)
CVBS	: Video output : Connection of a TV set with a video output (CVBS, Composite Video).
AUDIO CONNECTORS (AUDIO OUT)	: Connects to the AV amplifier by using 2 cords (Left, right).
DIGITAL AUDIO OUT (OPTICAL)	: Connects to an audio component using the optical digital connection cord.
DIGITAL AUDIO OUT (COAXIAL)	: Connects to an audio component using the coaxial digital connection cord.

1.5 VFD ICONS
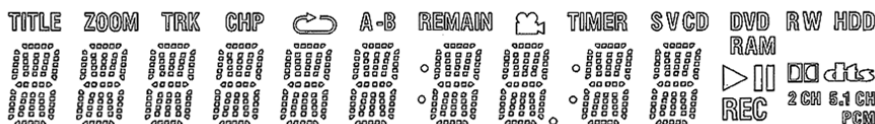
TITLE	: Displays the selected/played title number (DVD)
TRK	: Displays the selected/played track number (CDDA/MP3/JPEG/MPEG)
DVD	: Displays the type of inserted DVD disc: DVD
DVD R	: Displays the type of inserted DVD disc: DVD+R / DVD-R
DVD RW	: Displays the type of inserted DVD disc: DVD+RW / DVD-RW
(S)VCD	: Indicates that an (S)VCD disc is inserted
CD	: Indicates that a CD disc is inserted
CHP	: Displays the selected/played number of chapter (DVD)
REMAIN	: Indicates that remaining time is being displayed
□□	: A Dolby Digital audio signal is available on the digital audio output
DTS	: DTS audio signal is available on the digital audio output
PCM	: A PCM audio signal is available on the digital audio output
►	Playback in progress
‖	Playback/record interrupted (Pause)
REC	: Recording in progress
TIMER	: A recording (timer) has been programmed
2 CH	: During playback, a HiFi/2 channel signal was detected
ZOOM	: Zoom mode is activated
5.1 CH	: During playback a HiFi/6 channel signal was detected.
⟳	: A repeat mode is activated
A → B	: A → B repeat mode is activated
🎥	: Displays multi-angle scenes.
HDD	: Indicates that HDD title list is active or playback / recording from HDD is in progress.

Multi-function display/Text line
- Clock
- Disc/Title playing time
- Display of a program number of TV channel/ position/ channel name/ function
- Display of information, warnings

1.6 MESSAGES IN THE DVD RECORDER DISPLAY

The following messages may appear in your DVD recorder display:

OPEN	: Disc tray is open
CLOSE	: Disc tray is closing
LOAD	: Disc is being read
NO DISC	: No disc has been inserted for playback or recording. If a disc has been inserted, perhaps it cannot be read.
ERROR	: Error disc, faulty disc
UPDATE	: Updating flash
BLANK	: Inserted disc is blank
MENU	: While in file playback, file content menu is on screen
STOP	: Stop to play the content
ROOT	: In root menu for recorded content
COMPOSITE	: CVBS source
SCART-IN	: SCART source
PREPARING	: Preparing a new DVD+R/DVD-R or DVD+RW/DVD-RW disc, after recording to disc or starting (booting) the system.
SETUP	: Setup menu is active on screen
FINALIZE	: Finalizing a DVD+R/ DVD-R / DVD-RW disc
FINISH	: Flash update procedure is finished
DUBBING	: Dubbing is in progress

2. INSTALLING YOUR DVD RECORDER

INTRODUCTION

Setup encompasses setting general options such as language, clock and so on that are applicable to DVD playing and recording functions. Other setup options apply to specific functions of the DVD recorder.

Important note about time shift feature: In time shift mode, this unit records all DVB-T specific OSD information including DVB-T menus and MHEG, along with the video. This means that when you go back in time, you may also see the DVB-T menus you opened before and all the actions you made.

2.1 INSTALLATION MENU

2.1.1 First Time Setup (See 2.2 and 3.3 for subsequent setup)

After exiting standby the system turns on FreeView mode. Since this is the first time that the receiver has been used, there are no channels stored in the receiver and the Auto search selection menu is displayed on the screen. If you do not see the APS (Automatic Program Search) search menu on the television screen after a few minutes, ensure your television is set to the correct input.

Using the ◄ / ► buttons on the remote control, make sure that YES is highlighted, and press **SELECT** button to start the automatic search. The FreeView receiver will automatically tune to the UHF transmission channels 21 to 68 looking for digital terrestrial TV broadcasts and displaying the names of channels found. This process may take about a few minutes.

If no digital terrestrial television broadcasts are found, the receiver will display a warning message. Check that an aerial is connected to the aerial input socket of the recorder.

NOTE: Important that you must NOT turn off the recorder within 5 seconds after the automatic search since the unit is updating the program table and all channels may be lost.

Date and time of the recorder will be updated according to the channels found during APS. Initial Setup Menu for you to set date and time of the recorder will now be displayed. Use ▲/▼ buttons to select the date box and press **SELECT** to edit the date. Now use the ◄ / ► buttons and make the changes by using number buttons and ▲/▼ buttons. Once changes are complete press SELECT to save changes.
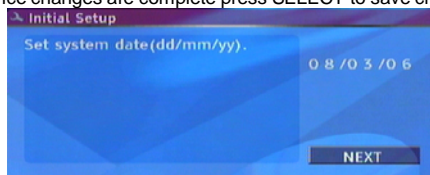
You can also set system time with the same steps as written above.

When the search has finished, a progress bar is seen on display. This means that program table is saved. Then the first channel of the channel list and the information banner is displayed you can now watch digital terrestrial television, selecting the channel you desire using the number buttons on the remote.
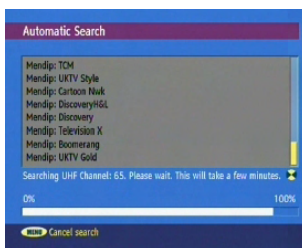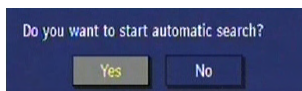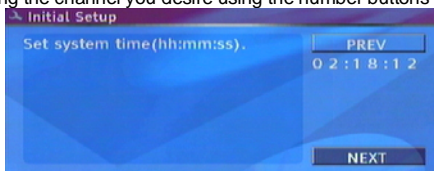
2.2 FUNCTIONS MENU

INTRODUCTION

Press the FUNCTION button to enter the functions menu.
This menu is used as a shortcut menu for switching to DVD playback, time shift monitor mode, setup menu, timer recording menu, hard disk playback. You can highlight items and press **SELECT** on one of them to go directly to the selected menu. If you wait for more than 5 seconds this menu disappears.

DVD - Switches to DVD playback window.
TV/Video - Switches to monitor mode.Same as pressing the the Watch TV button (see note).
Setup – Switches to setup menu.
Timer Recording – Switches to timer recording menu.
HDD – Switches to hard disk title window.
Note: If DVD menu was previously viewed selecting TV/Video or using Watch TV button will enter Monitor mode without timeshift. If HDD menu was previously viewed selecting TV/Video or using Watch TV button will enter Monitor mode with timeshift.

2.3 SETUP MENU

If you press **SETUP** button on the remote control or select Setup from the Functions menu, the setup menu will be displayed. You can use arrow buttons for navigation and **SELECT** button to change highlighted option.

NOTE: Some Setup Menu items may not be available during playback or monitor mode.

2.3.1 RECORDING

2.3.1.1 Auto Chapter Marker

You can select one of the time periods (5 min, 10min, 20min, 30min) for setting the chapter length or cancel this function by choosing "Off" option.
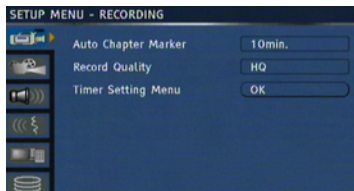
2.3.1.2 Record Quality

You can choose the quality level for custom recording. Each quality level offers different recording time period, listed below:
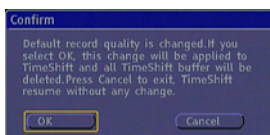
Record Quality	Recording Time (4.7GB,DVD)	Recording Time (160 GB, HDD)
HQ (High Quality)	~ 1 Hour	~ 37 Hours
SP (Standard Play)	~ 2 Hours	~ 74 Hours
LP(Long Play)	~ 3 Hours	~ 101 Hours
EP (Extended Play)	~ 4 Hours	~ 141 Hours
SLP (Super Long Play)	~ 6 Hours	~ 211 Hours

If you change the Record Quality in Time Shift mode, the buffer will be over written. Therefore, a confirmation message is displayed before changing quality.
NOTE: This menu item will be active only in monitor mode.
NOTE: During time shifting, record quality changes can not be refreshed unless you switch between monitor mode with and without time shift.

2.3.1.3 Timer Setting Menu
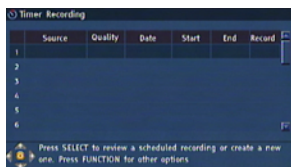
You can list all pre-set timer records, edit stored record list or set the timer for a new recording by using this menu option. This menu can also be activated with the **TIMER** button on the remote control.

If you press **SELECT** on the first blank item an additional menu will appear on screen. For detailed information, please look at section 4.5.

2.3.2 VIDEO

2.3.2.1 TV Type

MULTI: Select this option if your TV supports both NTSC and PAL.
PAL: Select this option if your TV supports only PAL.
NTSC: Select this option if your TV supports only NTSC.

2.3.2.2 TV Display

TV Display controls the presentation of the picture on the screen.

| 4:3 PS | 4:3 LB | 16:9 WS |

4:3 PS: (Normal/PS Pan& Scan)
This setting allows the movie to fill the entire screen height of your TV, but not the right and left edges.

4:3 LB: (Normal/LB Letterbox (4x3))
This setting allows you to see movies in their original aspect ratio. You will see the entire frame of the movie, but but there will be a black band at the top and bottom of the screen.

16:9 WS: (Wide Widescreen (16x9))
Choose this setting if your DVD recorder is connected to a widescreen TV.

NOTE: Depending on the format of the DVD disc, e.g. 2.35:1 the picture may still have black lines above and below the picture.

2.3.3 AUDIO

2.3.3.1 Downmix

Downmix means mixing 5.1 channels down to two channels. Set these options to agree with the speakers installed in your home entertainment system.

Stereo: Two channels stereo. Use this option if you have a stereo TV or a HI-FI stereo system.
Surround: Surround encoded output.
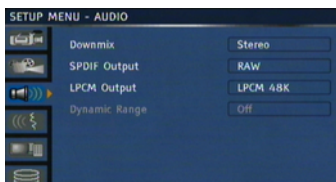
2.3.3.2 SPDIF Output

This item can be selected as "RAW" or "LPCM". However, in terms of which item to select will depend upon the connected equipment's SPDIF input requirements.

2.3.3.3 LPCM Output

This item can be selected as "LPCM 96K" or "LPCM 48K".
Choose "LPCM 96K" if your AV amplifier/receiver is compatible with 96K sampling rate audio, otherwise leave it set to "LPCM 48K".

2.3.3.4 Dynamic Range

Dynamic range adjusts frequency response. This control is useful to turn down the level of loud passages (explosions, car crashes, and etc.), while at the same time keeping soft passages loud enough to hear them clearly. This option is active only when downmix is selected as "Surround".
Full: The range between loudest and softest is compressed to the maximum.
Off: There is no compression. You can adjust the level of the dynamic range compression to different levels between off and full. The other settings are expressed as a fraction of the full dynamic range.

2.3.4 LANGUAGE

2.3.4.1 Audio Language

You can select default audio language with this option. The selected audio language will be activated, if supported by the disc being played.
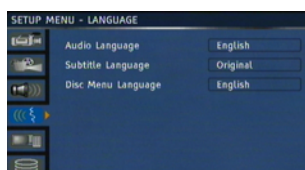
2.3.4.2 Subtitle Language

You can select default subtitle language for DVD discs by this option. The selected subtitle language will be activated, if supported by the disc played.

2.3.4.3 Disc Menu Language

You can select default DVD disc menu language by this option. The selected DVD disc menu language will be activated, if supported by the disc played.

2.3.5 PREFERENCES
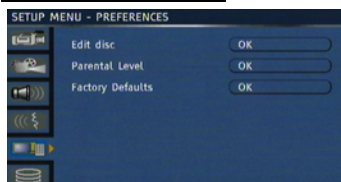
2.3.5.1 Edit Disc

ERASE DVD RW
This menu option is used for erasing a recorded DVD+RW/ DVD-RW disc. A warning dialogue asking whether you want to erase or not will be displayed. Select "Yes" to start erasing disc, or select "No" to return to the Setup menu.

NOTE: This option is enabled if only the disc is not in use. If you're playing the disc or viewing title menu (Root), please exit from DVD mode and select this menu option for erasing the disc.
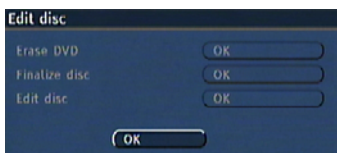
FINALISE DISC
This menu option is used for finalising a recorded DVD+R/ DVD-R / DVD-RW disc. It is not possible to do any operation on the disc after this process. A warning dialogue asking whether you want to finalise or not will be displayed. Select "Yes" to start finalising the disc, or select No to return to the Setup menu.

EDIT DISC

This menu option is used for viewing Disc Edit Menu of DVD+R/RW/ DVD-R/RW discs.
You can perform disc edit operations such as play disc, rename disc or record a new title with this menu.
For the details, please refer to Section 4.2.4.

2.3.5.2 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**

Parental level can be adjusted to one of the eight levels or "NO PARENTAL". "NO PARENTAL" or level "8 ADULT" adjustments let you watch all of the DVD titles ignoring that DVD disc's parental level. You can watch the DVD discs, which has the same or lower parental level than the recorder's level only.

NOTE: This will only function if the DVD disc supports Parental level coding.

NOTE: Parental Level menu option will not be available if the player is in RESUME (Pre-Stop) mode.

➤ **CHANGE PASSWORD**

The password for parental level can be set and changed by using this option.
The default password is: 0000.
You have to set a 4 digit digital password when it is the first time to select a parental level.
You have to enter your password every time you want to watch a movie with a higher parental setting or to change the parental level of the system.

To change the password, you will be prompted to enter your old password. After that, it becomes possible to enter a new 4-digit password.

Enter password: Enter your current password (four numbers you previously set in here)
Enter new password: Enter your choice for a new password.
Confirm new password: confirm new password by entering again. Select "OK".

NOTE: If you forget your password. you can use the password at last page, to enter this menu.
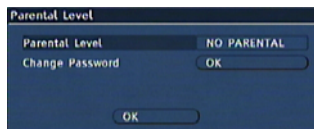
2.3.5.3 Factory Defaults

When you choose Factory Defaults option, after resetting all your Setup options back to factory settings, the device will restart automatically and the initial setup will start. If the standby button is pressed to switch the device on, first time installation starts.

CAUTION: Parental level and parental password do not change after Factory Defaults.

2.3.6 HDD

2.3.6.1 Time Shift Buffer Mode

This option is used for whether storing time shifting data or not. If time shifting buffer option is selected as "Refresh", buffer information will be lost and time shifting will start from the beginning when you change the channel or video source.

If "Preserve" is selected, buffer information will be maintained during channel or video source change.

2.3.6.2 Hard disk Info

When you select the SHOW option on the this menu, a new pop-up menu is displayed; title number, total hard disk size, used and remain space information is shown.

2.3.6.3 Erase Hard disk

This option is used for erasing all titles on the hard disk. A warning message asking whether you want to erase or not will be displayed. Select YES to start erasing hard disk, or select No to return to the Setup menu. After erase operation, the device will restart automatically.

NOTE: You have to proceed with caution because this operation is irreversible.
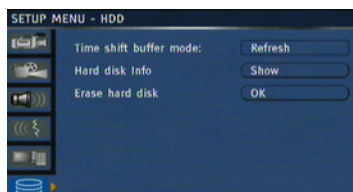
3. Free View MENU

In Free View Mode, if you press the **MENU** button on the remote control, this menu will be displayed.
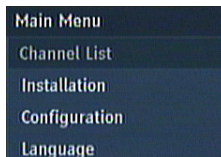
3.1 CHANNEL LIST

Here, you can preview any channel stored by the receiver before viewing it full screen. The complete list of channels is displayed in pages of 10 channels at a time, with their channel list number. The name and a quarter-screen preview of the channel last viewed is displayed in the top right of the screen.
Press ◄ / ► to highlight **SELECT** option and press **SELECT** on the remote to change channels.

DELETE
To delete a channel from the list, highlight the channel to be deleted using ▲/▼ buttons, then highlight DELETE using ◄ / ► and press **SELECT**. The highlighted channel is deleted from the list after the confirmation menu appears.

EDIT NAME
The channel names which appear in the channel list and the information banner are assigned by the broadcasters. You can edit the names to suit your preferences with the Edit Name function. Highlight the channel to be renamed, highlight EDIT NAME at the base of the screen using the ◄ / ► buttons, and press **SELECT**. The highlighted channel name appears on the right of the screen with the first character highlighted by a cursor. Any of the characters that make up a channel name can be highlighted using the ◄ / ► buttons and the highlighted character changed by pressing the ▲/▼ buttons to cycle through the alphabet, numbers and other characters available. Press SELECT to save changes.

CHANNEL LOCK
Some channels broadcast material which you do not want younger members of the family to watch. Any channel can be 'locked' so that it cannot be selected for viewing without a four-digit Password being entered. In this way any channel not suitable for younger viewers can be protected.
The channel lock is applied in the Channel List menu. Highlight the channel to be locked using the ▲/▼ buttons. You can move through the list 10 channels in one jump using RED or GREEN. Now select LOCK at the base of the screen with the ◄ / ► buttons and press **SELECT**.

NOTE: If you forget your new password, you will need to use the password printed on the last page of this manual. To change the password in the Parental Level setting of the Setup Menu (See section 2.5.2).

A window requesting the Password is displayed and the four-digit code should be entered using the number buttons on the remote control, followed by the **SELECT** button. A lock icon is then displayed alongside the channel name in the channel list.

You can now leave the Channel List screen and return to normal TV viewing by pressing **MENU**. Any attempt to change channel to the locked channel will now display the same window requesting the Password and the channel will only be displayed on entry of the correct code. To remove the lock on a channel, repeat the same process as to lock the channel.

FAVOURITES
In the channel list highlight "FAVOURITES" by pressing ◄ / ► buttons then press **SELECT** to add your favourite channel a favourites icon will be shown in the menu, indicating the favourite channel you chose, after a channel is chosen as a favourite. You can choose as many channes as you desire to your favourite list by using ◄ / ► buttons, the RED/GREEN buttons move up/down one page at a time.
You can then switch the favourite list on/off with the FAV button on the remote.

The favorite status of a channel can be removed by repeating this procedure. Leave the Favorites menu by pressing ◄ / ► or MENU buttons. Once the desired channels have been marked as favorite channels, the favorite mode can be activated to allow easy access to them. Press the **MENU** button to display the Main Menu and to highlight Configuration, then press **SELECT** to display the Configuration menu. Highlight the Favourite Mode line and using the ◄ / ► buttons to change to On.

When you leave the Configuration menu by pressing **MENU** the favorite mode is activated. Now, changing channel using the **PROGRAM + /-** buttons will switch to only those channels marked as favorites in the channel list. Similarly, the on-screen list in the electronic program guide

contains only the favorite channels. You can still access all the channels in the channel list by button ing in their channel list number or by selection from the Channel List screen. Alternatively you can switch off the favorite mode from the Favorite Mode line of the Configuration menu.

Hint: The favorite mode can only be activated if one or more channels in the channel list are marked as favorites. Similarly, if the favorite status is removed from all the channels in the Channel List, the favorite mode is turned off automatically.

3.2 INSTALLATION
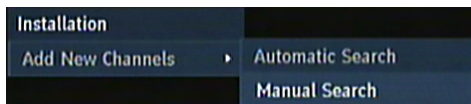
The options located in the Installation Menu are:
1. Automatic Search
2. Manual Search

AUTOMATIC SEARCH

Although your FreeView receiver will not loose its settings or stored channels when switched off, you may wish to reinstall the receiver because you have moved to a different area with different broadcast frequencies, you wish to reinstate a channel previously deleted from the channel list, or you want to watch new channels which have started broadcasting.

When in FREEVIEW mode, press the **MENU** button to display the Main Menu and using the ▲/▼ buttons, highlight the Installation line and press **SELECT** to display the Installation menu.
Then press **SELECT** to open the Add New Channels Menu. Then select Automatic Search to start automatic search.
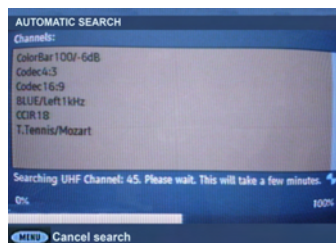
MANUAL SEARCH

The FreeView receiver can search for channels automatically (searching all the broadcast frequencies for free-to-air channels) or manually (searching one specified broadcast frequency only for any channels to be found there).

This is for searching for digital channels on a single broadcast frequency. The frequency channel number (21-68) is entered in the box at the top left of the screen and the received signal level and signal quality can be observed on the two bar graphs at the bottom. When **SELECT** is pressed, the receiver searches that frequency and display a list of the channels found before returning to the Installation menu.
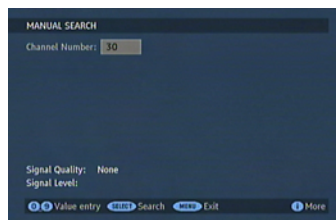
3.3 CONFIGURATION

You can configure the settings of the Digital Tuner of your recorder by selecting Configuration from the Free View Menu and Press **SELECT** to enter this menu. Press **MENU** button to exit. Configuration Menu includes the following main items:

➢ Audio Language
➢ Subtitle
➢ Favourite Mode
➢ EPG Preference
➢ Scan Encrypted Chans
➢ Receiver Upgrade
➢ Parental Settings

3.3.1. AUDIO LANGUAGE (Freeview only)

Change Audio language by using ◀ / ▶ button.

3.3.2. SUBTITLE (Freeview only)

Digital terrestrial television channels can broadcast with subtitles displayed on-screen for the hard-of-hearing. This function selects the desired subtitle language and enables the display of subtitles whenever subtitle information is broadcast.Highlight the Subtitle line in the Configuration menu and use the "◀" or "▶"buttons to select the languages or Off. The Subtitles can also be turned on or off using the Subtitle button on the remote control.

3.3.3. FAVOURITE MODE

This function enables or disables the favourite channel list mode by pressing "◀ / ▶" buttons. If there is no favourite channel, a warning message is displayed.

3.3.4. EPG PREFERENCE

Digital terrestrial television channels can broadcast simultaneous Now & Next and 7-Day electronic program guides. Highlight the EPG Preference line in the Configuration menu and use the "◀" or "▶"buttons to select NOW&NEXT or 7-Day.

3.3.5. SCAN ENCRYPTED CHANNELS

If selected when searching, the "Encrypted" channels will also be stored and displayed. If No is chosen only "Free to Air" channels will be stored.
NOTE: This unit cannot decode encrypted channels.

3.3.6. RECEIVER UPGRADE

To ensure that your digital receiver always has the most up-to-date software. Please ensure that after use it is set to its standby mode. The Receiver automatically powers up at 3 am each day and searches for any new information which may be broadcast and will download this to your box automatically. This operation will normally take approximately 30 minutes. If you have an important recording to make at 3 am which must not have a 30 minute interrupt then you can disable the auto OAD search by performing the following:
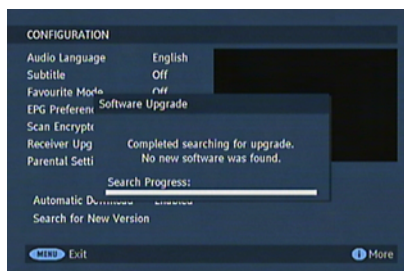
1. Press Menu button and using the "▲/▼" buttons highlight CONFIGURATION and press the SELECT button,

2. Use the "▲/▼" buttons to highlight "RECEIVER UPGRADE" and press SELECT button. Use the ◀ / ▶ buttons to change Automatic Upgrade option to Disabled. Press the MENU button to save the change.

Do not forget to re-enable the automatic OAD function after you have made your recording by repeating the above instructions.
3. Use the ▲/▼ buttons to highlight "Search for New Version" to perform an immediate search.

NOTE: If there is no new software to download, this procedure will take only about 20-30 seconds.

3.3.7. PARENTAL SETTINGS

Use "▲/▼" buttons to go to Parental Settings option. Press SELECT button to enter Parental Settings Menu. A box asking for the lock key is displayed. Password is set to "0000" initially. Enter lock key. If it is incorrect, "Wrong lock key " will be displayed and you will be returned to the menu. If it is correct, the Parental Settings Menu including the following items is displayed: There you can set/reset locking for the Main Menu, or the Installation Menu to restrict access. If the menu lock is disabled, there will be free access to the menu system. You can change the password from the SETUP menu only.
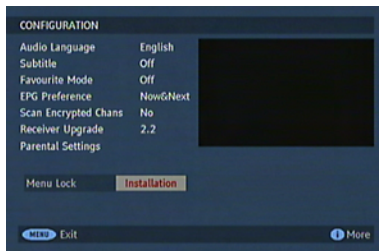
Menu Lock
Use "◀ / ▶"buttons to toggle Menu Lock Mode.
DISABLED : All menus are unlocked.
MAIN MENU : Main Menu is accessible only with the correct lock button. So the user can't add, delete, rename, channels, can't set timers.
INSTALLATION: Installation menu is locked. So the user can't add channels.
Changes will be updated after exiting 'Configuration Menu'.

3.4 LANGUAGE

In this menu, the user can adjust the preferred language (if various languages are supported by the broadcast). The language is changed by pressing **SELECT** button in the Main Menu. Then supported languages by the broadcast are listed. Select the desired one by using the "▲/▼" and SELECT buttons.

NOTE : Supported languages can be changed due to the broadcast.

4. RECORDING

4.1 RECORDING SETUP

4.1.1 Record Quality

You can select from up to five record quality settings to define the picture quality of the recordings and the amount of space you want to use on the HDD. Higher quality recordings will consume more space and low quality recordings will consume less space on the HDD.

You can also change record qualities by pressing **RECORD MODE** button on the remote control in monitor mode without time shift.

Record Quality	Recording Time (4.7GB,DVD)	Recording Time (160 GB, HDD)
HQ (High Quality)	~ 1 Hour	~ 37 Hours
SP (Standard Play)	~ 2 Hours	~ 74 Hours
LP(Long Play)	~ 3 Hours	~ 101 Hours
EP (Extended Play)	~ 4 Hours	~ 141 Hours
SLP (Super Long Play)	~ 6 Hours	~ 211 Hours

NOTE: During time shifting, record quality changes can not be refreshed unless you switch between monitor mode with and without time shift.

4.1.2 Source Selection

Video input source modes: Tuner (Freeview), SCART, Front CVBS than back to Tuner. Please check your setup first before starting a record process. In order to navigate between video sources press the **VIDEO SOURCE** button on the remote control.

If you press **VIDEO SOURCE** button on the remote control in HDD mode it will switch to time shift monitor mode. In this mode you can record only to hard disk.

4.1.3 OTR (One Touch Recording)

Every press of **RECORD/DUB** button will increase recording time for 30 minutes after recording has been started.

The timer list is circular. According to the record quality and the empty space available on the disc/ harddisk; after reaching to the maximum recording time, it switches back to OTR cancelled mode.

4.1.4 How To Watch Another Channel At TV During Recording?

This feature is valid only for a SCART connected TV. Press **TV/DVD** button on the remote control. This will disable the SCART output of the unit. By using your TV remote control, you can navigate through channels that are tuned in on your TV and watch those channels. In order to enable the SCART output of the DVD recorder, press **TV/DVD** button again.

4.2 RECORDING TO DVD

4.2.1 General Information

With this DVD recorder, you can record on four types of DVD.

DVD+ RW and DVD- RW: This typ of disc can be recorded and erased multiple times.

DVD+ R and DVD- R: This type of disc can only be recorded until the disc is full or you finalize the disc. After that, it is not possible to make further recordings on the same disc.

NOTE: If a RW disc was previously recorded, formatted or erased on any other recorder or PC, please first erase the disc with this device, before starting any record operation.

4.2.2 Recording

After being sure about your device setup and general recording setup, check whether there is a recordable DVD in tray or not. Now you are ready to record. In order to start manual record to DVD you must switch to monitor mode without time shift.

Press **VIDEO SOURCE** button in DVD mode, it will switch to monitor mode without time shift. When you switch to this mode, you will see a record status display on screen. You can see the state of system (Recording, stop, and pause), destination of the record, record quality, and time information about recording on this display.

Ensure that destination is set to "DVD" at record status display on screen. If destination has been set to "Hard disk", press the HDD/DVD button to change the destination.

Press the **RECORD MODE** button to change the record quality before starting to record.

Then press **RECORD/DUB** button on your remote control or front panel of device. Recording process will start.

To stop the recording process, press the **STOP** button.

Press **PLAY/PAUSE(►/II)** button to pause recording and **RECORD/DUB** button to resume.
NOTE: If you try to record to a pre-recorded DVD+RW disc that has been recorded on a different platform or PC, a warning message may be displayed. This message explains that the disc is not compatible and it has to be erased. Select "Yes" to erase disc or No to cancel erase and record operation. DVD+RW and DVD-RW should be erased before recording to prevent unusual operations as detailed on Page 8.

4.2.3 Inserting chapter

INSERT CHAPTER button on the remote control inserts a chapter marker at the moment you press this button (only DVD).
NOTE: Editing will not be possible if a DVD+R disc is recorded entirely.

4.2.4 Disc Edit Menu

Disc Edit Menu will be activated by pressing ▶ button of the remote control on the disc thumbnail picture. If you press ▲ button while the first title picture is focused, you can view the disc thumbnail picture.
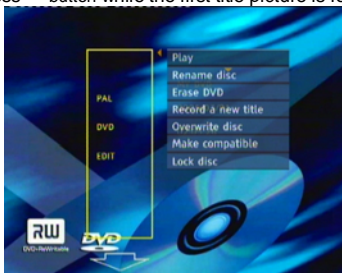
* For DVD + RW

*For DVD +R / DVD-R

*For DVD -RW

Play: You can play the recorded disc from the first title.

Rename Disc: You can change the disc's name using this option.

Erase DVD: This option allows you to erase the recorded disc if it's a DVD+RW or DVD-RW.

Record a New Title: This option allows you to record a new title to the disc.

Overwrite Disc: With this option you can overwrite all titles on the disc.

Lock Disc: You can lock the disc in order to protect from overwriting or continuing to record. Only you can play the disc.

Unlock Disc: You can unlock the disc and continue to record.

NOTE: You can see "Unlock Disc" option if the disc is locked before.

Make Compatible: When you do chapter operations (add/delete marker, hide/unhide, etc.) on a title, this menu option will appear on the Disc Menu (available only with DVD+RW).

Since DVD+RW discs do not need to be finalized, if you have performed edit operations on a rewritable disc, in order to play the disc and see your changes on other recorders, "Make Compatible" operation must be done.

NOTE: Make Compatible operation may take a long time.

Finalize Disc: It finalises the disc recorded. It is not possible to do any operation on the disc after this process (available only with DVD+R or DVD-R/ DVD-RW).

When a DVD+R/DVD-R disc runs out of space, the disc is automatically finalized after finishing recording. Therefore, further editing will not be possible.

4.2.5 Title Edit Menu

Title Menu lists all the actions you can do with the titles recorded on a recordable disc. It will be activated by pressing ▶ arrow button of the remote control on the thumbnail picture of the title. Use ▲/▼ to highlight option and press SELECT.

Play Title: You can play the selected title on the disc.

Edit Title: You can edit the titles on the disc. A new menu is displayed on the screen, and you can insert chapter marker, hide chapter or select index picture using this menu. (See Editing Title section)

Rename Title: You can rename the title.

Erase Title: This option allows you to erase the selected title (available only with DVD+RW or DVD-RW).

Overwrite Title: You can overwrite and record another title onto the selected title (New title cannot be longer than the overwritten one) (available only with DVD+RW or DVD-RW).

Overwrite Disc: With this option you can overwrite all titles in the disc (available only with DVD+RW or DVD-RW).

Append Title: A new recording can be appended to the last title (available only with DVD+RW and unfinalized DVD+R/ DVD-R/ DVD-RW).

4.2.6 Editing Title
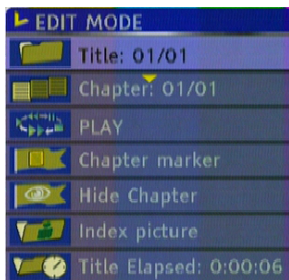
Title number: View / select the number of current title / total title.

Chapter number: View / select the number of current chapter / total chapter.

Playback operations: Current operation status. It includes PLAY, PAUSE, STOP, Fast Forward/Backward, Slow Forward/ Backward …

Chapter marker: When Insert marker is selected by pressing **SELECT**, a new chapter marker will be added to the current point.
When Delete marker is selected by pressing **SELECT**, the marker of the current chapter will be deleted.
When Delete all markers is selected by pressing **SELECT**, all of the chapter markers will be deleted.

Chapter hide or unhide: You can make a chapter invisible by selecting "Hide chapter" option. In this way, invisible chapters will be skipped during disc playback.

NOTE: First chapter of the title cannot be hidden.

If the current chapter is hidden before, "Unhide chapter" will be displayed; and selecting this will make the chapter visible again.

Index picture: When you want to set the current frame as the title thumbnail picture of the current title, press **SELECT**.

Title Elapsed: Display the title elapsed time.

To exit editing mode, press **TITLE** button.

NOTE: Editing will not be possible if a DVD+R disc is recorded entirely.

4.3 RECORDING TO HARDDISK

4.3.1 Time Shifting

When you turn on the device if there is no disc inside, it will automatically switch to time shifting mode and the time shift bar will be displayed on screen.

Other ways to switch time shifting mode are, pressing **VIDEO SOURCE** or WATCH TV buttons when in the hard disk title menu.

Time shifting allows buffering of live TV broadcast for 60 minutes. At any time you can pause and resume live broadcast. You can also replay previously buffered scenes by going backward on the time shift bar.

In order to open the time shift bar, press **WATCH TV** button.
While in time shifting mode, you can use the following buttons:

HDD/DVD	: Hard disk title list
FUNCTION	**:** Opens Functions menu
SETUP	**:** Opens Setup menu
TIMER	**:** Opens Timer menu
VIDEO SOURCE	**:** Changes video source
PROGRAM +/-	**:** Changes the channel
SEARCH(►► / ◄◄)	**:** Fast forward / backward (In 3 different speeds)
SKIP Fwd ► ►I	**:** Jump forward 10 minutes.
SKIP Bkd I◄ ◄	**:** Jump backward 10 minutes.

NOTE: If you change the source of video or the video standard is different (NTSC vs. PAL), the Time shifting buffer will be erased.

NOTE: During Time shifting, a Timer recording (programmed recording) may come up. But watching a channel in time shifting and recording another channel can not be done simultaneously. Therefore, a confirmation message will be shown as whether you want to keep watching the current channel (select No option) or proceed with the timer recording (select Yes option). If there is no response, the recorder assumes timer recording should be started. The confirmation message will be shown 3 minutes before the timer recording will be started.

Time shifting is stored in a buffer that contains 60 minutes of recording. After 60 minutes, the buffer will be progressively overwritten. If you need to keep the video contained in this buffer for future usage, you can Save the desired part of the buffer.

NOTE: When the hard disk is full, buffering will not be possible in time shift mode.
NOTE: During time shifting all of the Freeview menus will be recorded, if they were open.
NOTE: During time shifting, pressing **PLAY/PAUSE(►/ II)**button may cause 10 seconds of saved title loss.

4.3.2 Save Operation

While watching a program, press **RECORD/DUB** on the remote control or REC on the front panel. The recorder will start to save from the part you are watching. By pressing **RECORD/DUB** button again, OTR (one Touch Recording) function will be activated and record length will be increased by 30 minutes up to 3 hours according to the selected record quality. The part that is being saved will be in red on the time shifting bar. In order to finish saving operation, press **STOP** button on the remote control.

NOTE: While saving operation is in progress, you can not change the channel or source. In order to change channel or source, you have to stop saving operation manually (by pressing **STOP** button). The segment will be saved on hard disk.

NOTE: Only one segment in time shifting buffer can be identified for saving. It is not possible to identify multiple segments. Once the segment has been saved and registered on title list, then this segment (and its preceding video part) will be removed from the time shifting buffer when **STOP** button is pressed.

NOTE: In time shifting mode, maximum record length for one title is 3 hours. Therefore, if you want to save a program longer than 3 hours, one or more titles will be created. For example, if you are saving a program for 10 hours, four titles will be created; 3 titles with 3 hours and one title for one hour.

NOTE: When you pause time shift saving and then stop it, approximately 10 seconds of recording may be lost.

4.3.3 Manual Record

In order to record manually to hard disk you have to switch to monitor mode without time shift as it is explained above for DVD. Please be sure about the destination of record. If it is not set as hard disk, press **HDD/DVD** button in order to change it. You can change record quality by pressing **RECORD MODE** button. Then press **RECORD/DUB** button on your remote control or front panel of device. Recording process will start. To stop the recording process, press **STOP** button. Press **PLAY/ PAUSE(▶/ Ⅱ)** button to pause recording and **RECORD/DUB** button to resume.
Each recording information will be displayed on monitor mode's information view.

4.3.4 Harddisk Title List
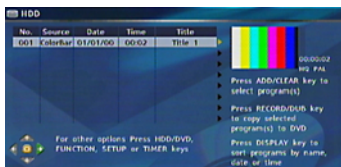
In order to switch to the hard disk title list, press **HDD/DVD** button on the remote control or select **HDD** from the Functions menu.

The title list displays the list of all the titles you have saved on the harddisk. For each title, the duration, a thumbnail picture, and the recording mode (HQ, SP etc) are shown. Also you can see if a title has been segmented (Edit icon next to the thumbnail), protected against deleting, or editing (Safe box icon next to the thumbnail) or locked for playback or editing unless the correct password has been entered (Lock icon next to the thumbnail).

The title list also allows you to select title(s) for dubbing to DVD, start playing or editing a title. Most common hot buttons and navigation information are provided below the harddisk title list.

NOTE: The dynamic navigator shows you which arrow buttons are active.
NOTE: Maximum number of titles saved on the hard disk and maximum number of chapters per title are 254.

4.3.5 Title List Sorting

This function allows you to view the HDD tile list in different orders. You first have to be in the harddisk title list screen. Press on the **DISPLAY/INFO** button repeatedly for one of the following sorting options:
- **Sort by date/time descending:** The most recent recording appears on top of the list
- **Sort by name ascending:** Names in order: A to Z (titles with the same name will appear in ascending time order, with the oldest one being higher than the more recent one)
- **Sort by name descending**. Names in order: Z to A (titles with the same name will appear in ascending time order, with the oldest one being higher than the more recent one)
- **Resume to default**, **sort by date/time ascending**: Most recent recording appears last on the list.

NOTE: The default order is by date/time ascending and will be applied every time you enter the HDD title list.

4.3.6 Harddisk Title Edit Menu

The hard disk Title Menu lists all the actions you can do with the titles recorded on the harddisk. It can be activated by pressing the ▶ arrow button of the remote control on the title of the harddisk title list.

Play: Press **SELECT** to play the selected title.

Delete: Title can be deleted unless the title is protected or locked. A message will be shown to confirm the operation.

Split: Title can be split into two titles with this option. After choosing Split option, it will switch to playback view and by pressing **SELECT** button you can determine the point of splitting operation. A message will be shown to confirm the operation.

NOTE: Split operation is irreversible. Once the program has been split, the 2 titles can not be joined back.
NOTE: Split screen can only be accessed if the title you want to split is not Protected or Locked.
       - Return button will switch back to HDD title list without splitting
       - If the splitting point is not chosen and the title playback comes to an end, then the system will switch to HDD title list.
       - When the operation is finished, the system will switch back to title list and the first part of the program will be highlighted.
NOTES: Split operation can be done after approximately 1 second of title.

Segment: With this option you can select a part to become hidden in a title. The title will begin playback and you can navigate in the segment screen and press **SELECT** button at the start and end points of the the hidden parts of the title. After the operation, the title will be played without the parts you have hidden with this operation. Also hidden parts will not be copied to DVD if segmented title is selected for dubbing. If you re-enter the segment screen for the same title, you can see the identified segments. You can unhide segmented parts by first pressing **SELECT** button on the starting point of the segment and then pressing again at the end point.
NOTE: Segment screen can only be accessed if the title is not Protected or Locked.

Change Index Picture: You can navigate the title like in playback and when the desired picture is viewed on screen press **SELECT** button to change the index picture.
NOTE: This operation is allowed unless the title is Locked or Protected.

Rename: You can rename the title by using the on-screen keyboard.
NOTE: This operation is allowed unless the title is Locked or Protected.

Lock / Unlock: When you lock a title, the parental password selected in the Setup menu will be used. You will be asked to unlock the title before Playback, any Editing or Dubbing operation. In order to Unlock, you will be prompted to enter the password. A locked title will have a lock icon next to its index picture on HDD title list.

Protect / Unprotect: When this option is set for a title, you can play or Dub it to DVD, but you cannot do any editing operations (split, segment, change index picture, delete) on that title. In order to unprotect, select Unprotect from harddisk title edit menu. A protected title will have a safe box icon next to its index picture on harddisk title list.

4.4 DUBBING

Before selecting titles for dubbing, you should insert a recordable disk in the tray (Please see section of Supported Discs). If the disc was not used before, the recorder will format the disc or determine compatibility and free recordable space for a few moments.

For dubbing operation, navigate the title list with arrow buttons and press **ADD/CLEAR** button on the title you want to dub. When a title is added to dubbing list, the dubbing icon will appear next to it on the title list. If you want to remove the title from the dubbing list, press **ADD/CLEAR** button on the title you want to remove.
You will see the percentage of used disc space on top right corner of the harddisk title list screen.

In order to start Dubbing operation press **RECORD/DUB** button on the remote control. When Dubbing starts the recorder will switch to time shift monitor mode and time shifting will start automatically, a dubbing icon can be seen on top left corner of the screen. You can press **HDD/DVD** button to display harddisk title menu.

NOTE: You can play titles from and record to harddisk, while dubbing operation is in progress.

NOTE: Titles can be dubbed to DVD if the title is not locked. Editing will not be allowed during Dubbing.

NOTE: If the writing to DVD fails at any point during this operation, the following message will appear: "Dubbing operation could not continue". All Dubbing Icons will be removed automatically.

4.5 TIMER RECORDING

4.5.1 General Information

You can use programmed recording (timer) to automatically start and stop a recording at a later time. The DVD Recorder will switch to the selected program number and begin recording at the selected time.

Note
When setting Record Timers/Reminders via the EPG there is currently a limit of 5 slots available. If further Record Timers are needed these can be set manually.

4.5.2 How To Set a Record Timer or Reminder by EPG (Now / Next)

- When watching any FreeView channel, press the **TITLE/GUIDE** button to open EPG (Now/Next) page.
- If you want to set a recorder or reminder for the next programme, press ▶ arrow button to highlight and press **RECORD/DUB** button for recording or **SELECT** button for reminder.
- If you select Reminder, you will see a clock icon near the next programme name that you want to be reminded. (Reminder option only works while you are watching TV. It is disabled in standby or any other mode.)
- If you select Record, it first asks the destination of recording (HDD or OPTICAL)**.** When you select the destination, it asks for quality of recording that you want to set. After selecting one of them, it puts a red icon near the next programme name and returns to the EPG (Now/Next) page. Also if you want to verify timer record, you may see the event in the Timer List by pressing the **TIMER** button.
- To close the EPG page and return to monitor mode, press the **TITLE/GUIDE** button.

4.5.3 How To Set a Record Timer or Reminder by EPG (7 Day)

- When watching any FreeView channels, press the **TITLE/GUIDE** button then **MENU** button to open the EPG (7 Day) page.
- If you want to set a record or reminder for any programme, use navigation and colored buttons to highlight and press RECORD/DUB button for recording or SELECT button for reminder (Use **DISPLAY/INFO**) button for more help.
- If you select Reminder, you will see a clock icon near the programme name that you want to be reminded. (Reminder option only works watching TV. It is disabled in standby or any other mode.)
- If you select Record, it first asks the destination of recording (HDD or OPTICAL). When you select the destination, it asks for quality of recording that you want to set. After selecting one of them, it puts a red icon near the programme name and returns to the EPG (7 Day) page. Also if you want to verify timer record, you may see the event in the Timer List by pressing the **TIMER** button.
- Other record events may be selected by repeating points 2, 3 and 4 above. In case two record timers overlap, a warning message will be displayed.
- To complete the record time event, turn off the recorder by pressing the **STANDBY** button on the remote. At the programmed time the recorder will power up and record the selected channel and power off again once completed.

NOTE: It is very important that there is sufficient disc space to cover the recorded time.

4.5.4 How To Set a Record Timer Manually

- Press the **TIMER** button on the remote control or select Timer Setting Menu from the Setup menu
- Press **SELECT** on the first blank item to program recording
- Set the source of recording (Freeview channel, F-CVBS or SCART)
- Set the destination of recording (DVD, HDD)
- Set the quality of recording (HQ, SP, LP, EP, SLP)
- Set the mode of recording (Once, Daily, Weekly, Mon~Fri, Mon~Sat, Weekend)
- The date you want to make the recording.
- Set the recording time (start and stop time for recording process)
- The title (name) of the recording.

4.5.5 How To Check, Change or Delete A Programmed Recording (Timer)

- Press **TIMER** button on the remote control or select Timer Setting Menu from Setup menu.
- In order to change any parameter of the programmed recording item, choose the related record item, press **SELECT** button. On the displayed popup menu, you can change any fields.
- To delete the programmed recording item, after step 1, go on the item you want to delete on the list and press **ADD/CLEAR** button; related item will be deleted from the list.

NOTE: If timer has been set through the EPG, changes cannot be made to it.

NOTE: If a recording is continuing onto harddisk(time shifting), 3 minutes before timer recording you will be asked to confirm timer recording. If you do not respond within 1 minute, then Timer recording will start automatically. If you are recording onto DVD, 3 minutes before timer recording you will be notified that you need to stop the current recording in order to allow timer recording. The message will appear for 10 seconds and be removed automatically. If you do not stop the current recording, then the timer recording will be ignored.

NOTE: If Timer recording is onto harddisk, you can view the title being recorded in time shifting mode (Pause/Play/..). Save operation will be disabled.

5. PLAYBACK

5.1 DISC PLAYBACK

5.1.1 Preparing For Playback (All Discs)
➢ To playback a disc, turn on the TV.
➢ If the DVD Recorder audio outputs are connected to an A/V receiver, turn on the receiver and make the appropriate selections to play audio from the DVD Recorder. Otherwise connect audio output to TV input.
➢ Set options in the setup menus that are appropriate for your speaker arrangement and configuration, for the video standard (PAL or NTSC) of your television monitor, and for the video picture aspect ratio.
➢ For a DVD, check packaging and determine whether the parental control level and local setups are appropriate for your country. Refer to setup menus for the Country and Parental controls.
➢ DVDs are encoded for six different regions. Check that the region designated on the DVD packaging conforms to your region. You cannot make any changes in the setup menu that will effect the region encoding.

5.1.2 Inserting a Disc In The Tray
Insert a disc in the DVD Recorder tray with the shiny side down. Note that some discs shine more than others. In the case of commercial CD's, the disc identifying information is printed on the "top" side of a disc. Do not insert more than one disc in the disc tray at a time.

NOTE: If the disc is placed in upside down (and it is a single sided disc), the VFD display on the DVD recorder will indicate NO DISC.

5.1.3 Basic Playback (DVD, (S)VCD, CD-DA, MP3, JPEG, MPEG)
Some playback operations and interactivity features of DVD and may be intentionally fixed by the software producer. Accordingly, some playback features may not be available. You should refer to the instructions supplied with the DVD. The simplest way to playback a disc is to follow this procedure.
1. Press the **STANDBY** button to turn the recorder on.
2. Press **OPEN/CLOSE** to open the disc tray.
3. Place a disc onto the tray.
4. Press **OPEN/CLOSE**.
The disc tray is will close and play commences automatically.
DVD: A menu may appear on the TV screen after a moment or the film may start immediately after the introduction of the movie company. You can select a specific scene to play if provided in this menu. This behavior depends on the disc content and may change.
This statement assumes that parental controls are off or set in such a way to allow the disc to play unimpeded and also the region of DVD conforms to your region.
(S)VCD:
• **With PBC:** If disc contains a menu, it will appear on the screen after a moment. You can select a specific scene to play, if provided in this menu.
• **Without PBC:** It plays the content.
CD-DA: It starts playback of the first track automatically.
MP3 / JPEG / MPEG : CD menu will appear, all files and folders are listed on the screen.
5. If a menu is active on screen, press arrow buttons to navigate or press **SELECT** to select a menu item.

5.1.4 Stopping Playback (DVD, (S)VCD, CD-DA, MP3, JPEG, MPEG)

DVD / (S)VCD: Press **STOP(■)** twice.

• During normal playback press **STOP(■)**. The unit memorizes the point where **STOP(■)** was pressed once (RESUME/Pre-Stop function) and a message "Press PLAY to continue" will appear on the screen. The screen displays a stationary logo or the screensaver is displayed after a timeout interval. Press **PLAY/PAUSE(►/Ⅱ)** again while the screensaver is not active, and play will resume from this point. If the tray is opened or the **STOP(■)** is pressed again, the RESUME (Pre-Stop) function will be cleared.

CD-DA / MP3 / JPEG / MPEG :

In PLAY or PAUSE state, when the **STOP(■)**button is pressed once, playback is stopped permanently. Press **PLAY/PAUSE(►/Ⅱ)** for starting from the beginning.

5.1.5 Pausing Playback (ALL DISCS)

1. Press the **PLAY/PAUSE(►/Ⅱ)** button any time during playback of a disc.

A "freeze frame" is created that stays on the screen until you resume playing the disc. Sound is muted during still playback.

2. To resume playback, press the **PLAY/PAUSE (►/Ⅱ)**button.

5.1.6 Removing a Disc (ALL DISCS)

Press Open / Close button on the remote control or ▲ button on the front panel. Remove the disc and press the same button to close the tray.

5.1.7 Repeat Play

Repeat play modes are activated by pressing **REPEAT** during playback and vary with media. Each time this button is pressed, a different repeat box is displayed on the screen.

In NORMAL mode the repeat mode is disabled.

DVD:
• CHAPTER REPEAT   • TITLE REPEAT
• DISC REPEAT   • NORMAL

(S)VCD / CD-DA:
• TRACK REPEAT   • DISC REPEAT   • NORMAL

MP3 / JPEG / MPEG:
• TRACK REPEAT   • FOLDER REPEAT
• DISC REPEAT   • NORMAL

5.1.8 Repeating a Specific Segment A to B (DVD, (S)VCD, CD-DA, MP3, JPEG, MPEG)

This method of repeating a segment on a disc relies on designating points on the disc where to start and end.

1. As the disc plays, press **A-B** button. "Set A_" is displayed.
2. At the point you want to end the segment press the **A-B** button again.
3. "A-B REPEAT" is displayed and the repeat play of the selection between points A and B starts.
4. To end repeat play of the segment you designated, press the **A-B** button.

5.1.9 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.

DVD / (S) VCD: By pressing **ZOOM** button consecutively you can get to "Zoom 150%", "Zoom 200%" modes.

JPEG: In playback of the JPEG files, first press the **ZOOM** button to go into ZOOM ON mode. To increase or decrease magnification press **SEARCH buttons** consecutively. You can get 12%, 25%, 50%, 100% and FITSCREEN modes.

Pressing **ZOOM** again will return to ZOOM OFF mode and the picture is now in its normal size.

To start slide show again, press PLAY/PAUSE button.

NOTE: You can move in the picture i.e. change the zoomed location by using the **(◄ / ► /▲/▼)** arrow buttons (DVD, (S) VCD, JPEG). Using the arrow buttons when not zoomed in will rotate or mirror the image.

5.1.10 Selecting Subtitle Language (DVD) (Displaying / Changing Subtitle Language)

DVD: It is possible to change the subtitle languages from the one selected at the initial settings to a different language available on disc or turn it off, if available. (This operation works only with discs on which multiple subtitle languages are recorded, and also if it is not prohibited by the disc.)

Press **SUBTITLE** during playback.

When this button is pressed once, the first subtitle recorded on the disc will be displayed. The rest of the subtitles recorded will be displayed in sequence at each press of the **SUBTITLE** button.

NOTE:
- 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 recorder is restarted or the disc is changed, the subtitle selection is automatically changed back to the the settings in the Setup menu.
- In order to cancel the subtitle press this button a number of times until "SUBTITLE OFF" appears on the screen.

5.1.11 Changing Audio Soundtrack Language (DVD, MPEG)

Your default language choice is determined by the language you set in the Language, Audio Language menu. Typically a DVD will have a menu that you can make a language selection from, before starting playback or after the playback begins. Using the remote control **AUDIO** button allows switching between audio tracks once a DVD has started playing. It is also valid for MPEG videos.

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

NOTE:
- 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 device is turned on or the disc is removed, the language heard is the one selected at the initial settings. If the language is not recorded on the disc, only the available language on the disc will be heard.

5.1.12 Changing the Camera Angle (DVD)

Some DVDs provide multiple shots of a selected scene each from a different camera angle, so you can choose which angle you are most interested in viewing. A small icon appears on the screen when multiple angles are available.

Press **ANGLE** during playback. The current angle is changed.

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

NOTE:
- This function will only work on discs where different angles have been recorded. The number of recorded angles differs depending on the disc used.

- If you press **ANGLE** outside of a multi-angle scene on a multi-angle title, you will see that is displayed. It means that only one angle is currently available.

5.1.13 Fast Forward / Backward

Press **SEARCH (◄◄)** or **SEARCH (►►)** on the remote control during playback.

The speed of advance or reverse search changes at each press of the **SEARCH (►►)** or **SEARCH (◄◄)**button.

Pressing **SEARCH (◄◄)**button in Fast Forward state and pressing **SEARCH (►►)**button in Fast Backward state decreases the scan speed.

To resume the normal playback press **PLAY/PAUSE (►/ⅠⅠ)**button.

JPEG: In ZOOM ON mode; **SEARCH (►►)**button is used to zoom in, **SEARCH (◄◄)**button is used to zoom out of the picture.

Supported speeds:

DVD: x2, x4, x8, x16, x32   **(S) VCD:** x2, x4, x8, x16, x32

CD-DA : x2, x4, x8, x16, x32

MP3: x2, x4, x8, x16, x32   **MPEG:** x8, x16, x32

NOTE: The fast forward and backward operations are not circular. The sequence for the fast forward and backward is as follows:

(FR x32, FR x16, FR x8, FR x4, FR x2, PLAY, FF x2, FF x4, FF x8, FF x16, FF x32)

Audio is muted during fast forwarding or reversing.

5.1.14 Slow Forward Playback (DVD, (S)VCD)

Slow-motion playback is good for searching or just observing a small section of the disc. To begin slow-motion play forward, first press **PLAY/PAUSE (►/Ⅱ)** once during playback. The player pauses.

Then, press **SEARCH (►►)** on the remote control during playback.

You can increase or decrease the speed of the slow-motion play by pressing **SEARCH (►►)** or **SEARCH** (◄◄). The speed of slow motion is displayed on the screen each time you change it.

Supported speeds: **DVD:** x1/2, x1/4, x1/8, **(S) VCD:** x1/2, x1/4, x1/8

NOTE: The sequence for the slow-motion is as follows:
(PAUSE, SF 1/2x, SF 1/4x, SF 1/8x)
Audio is muted during slow-motion playback. Slow backwards is not available.

5.1.15 Skipping Ahead or Back (DVD, (S)VCD, CD-DA, MP3, JPEG, MPEG)

5.1.15.1 Skipping Ahead

Press **SKIP (►►|)** on the remote control or on the main unit during playback.
DVD: In any playback state, a chapter or title is skipped forward depending on the information on the disc each time the button is pressed.

(S)VCD:
With PBC: In any playback state, next entry point in the current track is started.
Without PBC: In any playback state, the next track is started.

CD-DA, MP3, MPEG: Next track is played in any playback state.

JPEG: Next picture is displayed.

5.1.15.2 Skipping Back

Press **SKIP (|◄◄)** on the remote control or on the main unit during playback.

DVD: In any playback state, a chapter or title is skipped backward depending on the information on the disc each time this button is pressed.

(S)VCD: With PBC: In any playback state, previous entry point in the current track is started.
Without PBC: In any playback state, the previous track is started.
CD-DA, MP3, MPEG: Previous track is played in any playback state.

5.1.16 Step Forward (DVD)

Press **PLAY/PAUSE (►/Ⅱ)** once during playback.
The screen suspends.
Press **SKIP (►►|)** on the remote control or on the main unit during playback.
The next frame of the movie is displayed and press **SKIP (►►|)** for the following frames.
Audio is muted during frame advance.
To return to normal playback press **PLAY/PAUSE(►/Ⅱ)** button.

5.1.17 Locating A Specific Title or Chapter, Using The MENU or TITLE Button (DVD)

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

To play a specific title on a DVD, you can use the **MENU** or **TITLE** button to display a menu to make your title and chapter selection. The procedure described here is general in nature. If the steps do not seem appropriate for the DVD you are attempting to play, disregard these instructions and follow the instructions that appear on the screen.

1. During normal playback, press **MENU** or **TITLE**.
The screen displays a menu. The menu may not contain all the chapters in the movie title. However, the disc creators provide additional menus to navigate, which cover all the chapters. Use the arrow buttons to navigate on menus.
2. Position the screen highlight over your selection and press **SELECT**. Alternatively, you can press the number of the desired chapter.

5.1.18 Browsing For A Specific Chapter/Title (DVD)

Press **SEARCH MODE** on the remote control during playback "once" for titles (if more than one title is available) and "two times" for chapters (if more than one chapter is available).

The chapter/title search box is displayed on the screen. You can see the total numbers of titles/chapters as --/xx.
Enter the number of the title or chapter using number buttons.
The selected title or chapter is played just after you enter number and wait for 4-5 seconds or immediately if SELECT pressed.

NOTE:
- If you attempt to enter a number greater than the total number of titles/chapters, it clears the numbers entered, displays (chapter/title) / xx and continues to play.
- If you wait more than five seconds without pressing any number, the operation is cancelled.

5.1.19 Moving To A Specific Elapsed Time (DVD, (S)VCD)

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

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

The title is played from the desired time just after you enter the and press **SELECT** button, if not prohibited by the DVD.

(S)VCD: You can view (S) VCD according to the disc or track time any time you want.

Press **SEARCH MODE** on the remote control "once" during playback for track search in order to start from a selected track, press **SEARCH MODE** "twice" during playback for track time search.
The time search box is displayed on the screen. You can see total runtime of the track or disc as --:--:--/xx:xx:xx

Enter the time using number buttons.
The track or disc is played from the desired time just after you enter the time and wait for 4-5 seconds or press **SELECT** button.
NOTE:
- If you attempt to enter a number greater than the total time, it clears the numbers entered and continues to play.
- If you wait more than five seconds without pressing any button for selecting scenes by time operation is cancelled.

5.1.20 Browsing For A Specific Track/Time (CD-DA, MP3, MPEG, JPEG)

Press **SEARCH MODE** on the remote control.
Enter the number of the track you want to play by using number buttons.
The selected track is played just after you enter number and wait for 4-5 seconds or press **SELECT** button.
Second press of **SEARCH MODE** button on the remote control will enter time search of the playing media (except JPEG). (Only in playback state)
The time search box is displayed on the screen. You can see total runtime of the track as --:--:--/xx:xx:xx.
Enter the time using number buttons.
The track is played beginning from the desired time just after you enter the time and wait for 4-5 seconds or press **SELECT** button.

5.1.21 Checking Elapsed/Remaining Time (except JPEG)

To determine how long a file has been playing, you can check the elapsed time by pressing **DISPLAY** button.You will see the display menu on the screen and you can select track's/chapter's elapsed/remaining time or disc's/title's elapsed/remaining time from the menu option. The chosen time style will also be shown on the VFD. To close the display menu press **DISPLAY** again.

5.1.22 Playback Control ((S)VCD)

If a video CD has "playback control" written on the disc or jacket, it means that particular scenes or information can be selected for viewing interactively with TV screen using the menu screen.

You can change PBC mode with **TITLE** button or with PBC menu item on the Display menu.
PBC option will be on by default.

5.1.23 Playback Modes (CD-DA, MP3, JPEG, MPEG)

Press **DISPLAY** on the remote control.
Display menu will appear on the screen and pressing **PLAY MODE** consecutively, you can change playing options of the tracks as below.

CD-DA:
Program: You must prepare a playlist for this option. The same type of files can be arranged to build a playlist.

Select files with ▲ / ▼ buttons and add file with **ADD/CLEAR** button on remote control to make the playlist. To remove added files from the playlist, enter the program list with ▶ button highlight the file to be removed using the ▲ / ▼ buttons and press **ADD/CLEAR** button on remote control.

To start playback of playlist press **SELECT** button on the file you want to play or select PROGRAM.

All playback operations are available in the playlist you prepared.

NOTE: Only difference for MP3 and JPEG files, press **PLAY MODE** button and it will start playing the playlist you prepared immediately.

Random: When this play mode is selected, the tracks in the current folder will be played once in a random order.

Intro Play: Intro menu is used for introducing the content of the disc. It plays only for first 10 seconds of each track and then passes to the next track.

Normal: Tracks in the current folder will be played sequentially.

JPEG, MPEG: Intro mode is not available with JPEG and MPEG files. But other options are the same.

5.1.24 Simultaneous Playback (JPEG, MP3)

If your disc has both MP3 and JPEG files, you can listen to MP3 files while viewing JPEG files if on the same disc. When you start slideshow of JPEG files, you can select and listen to an MP3 file simultaneously.
Press DISPLAY then you can control these two types separately by using their relational display menus. If AUDIO is selected as TYPE you can control MP3 playback options. Similarly, if PICTURE is selected you can control JPEG playback options.
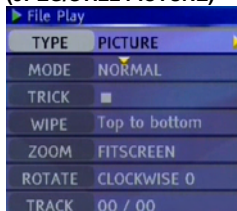
5.1.25 DISPLAY MENUS

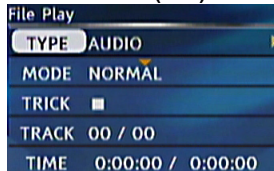Display menus are activated by pressing **DISPLAY** button while disc is in playback.
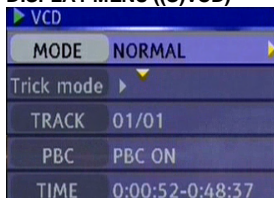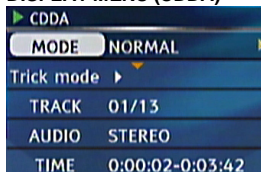
DISPLAY MENU (DVD)
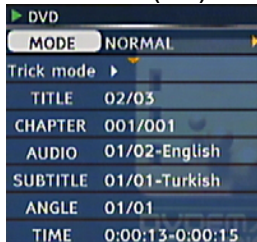
DISPLAY MENU (JPEG/STILL PICTURE)

DISPLAY MENU (MP3)

DISPLAY MENU ((S)VCD)

DISPLAY MENU (CDDA)

DISPLAY MENU (MPEG)
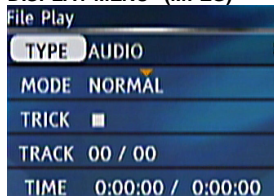
5.2 HARDDISK PLAYBACK

To play a title on harddisk, open harddisk title menu and press **SELECT** button upon the title you want to play or open popup menu by pressing ▶ button upon the title and select Play from the menu.

During harddisk playback, following remote control buttons are valid:

PLAY/PAUSE	: Plays/Pauses playback.
STOP	: Stops playback. Return to title list.
RETURN	: Stops playback and returns to title list.
SEARCH(▶▶)	: Fast forward (In 3 different speeds)
SEARCH(◀◀)	: Fast backward (In 3 different speeds)
PLAY/PAUSE + SKIP(▶▶)	: forward one frame upon each press of the skip button.
SKIP(▶▶)	: Skip forwards 10 minutes.
SKIP(◀◀)	: Skip backwards 10 minutes.
DISPLAY	: Display OSD info and help. (Press repeatedly to display: progress bar, helper text, add title information to the top, close all display)
REPEAT	: Repeat title.
▶	: Jump forward 30 seconds.
◀	: Jump backward by 10 seconds.
HDD/DVD	: Switch between HDD title list and DVD playback modes.
TIMER	: Timer recording menu.
ZOOM	: Enlarge the frames of playing scene (150% and 200%)
FUNCTION	: Open Functions menu.
VIDEO SOURCE	: Navigate between other sources.

NOTE: For detailed information about the functions above, see related parts at Disc Playback section.

6. FREEVIEW FEATURES

6.1 Interactive Services (MHEG)

Many digital terrestrial television channels not only broadcast video and sound for programs but also pages of information on the programs, the weather, news and many other topics. This digital teletext can be displayed by the FreeView receiver.

Some channels are entirely given over to digital teletext and carry no normal TV program at all. These dedicated digital teletext channels will not give a quarter-screen display in the Channel List screen. When such a channel is selected, after a brief pause, they will usually display the opening page of information automatically.
Other channels have digital teletext pages broadcast alongside the television program and often include a reduced-size broadcast picture within digital teletext pages. These usually require the TEXT button to be pressed to activate the digital teletext pages.
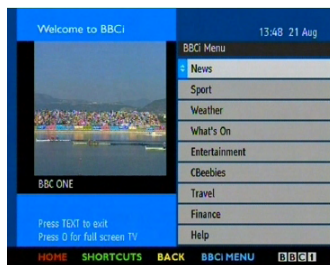
In both cases, moving through the different pages of information is accomplished in a variety of ways, dependent on the individual broadcasters, but including use of the ▲/▼/◄/► and SELECT buttons to select items from on-screen menus, and the coloured buttons to jump directly to particular pages.

You can exit any digital teletext channel by changing channel in any of the normal ways. You can leave the digital teletext function of a combined digital teletext/program channel, to return to normal television viewing of that channel, by pressing the TEXT button.

Note: Calling for the information banner or any menu on-screen stops the receiver from displaying the digital teletext and they may temporarily replaced by a blank picture while the banner or menu is displayed.

6.2 Widescreen

TV sets are available with standard (4:3) format and widescreen (16:9) format screens. Digital terrestrial television broadcasts are also made in both standard and widescreen formats.

You can use the WIDE button to change the display format (aspect ratio). With a widescreen TV set displaying a standard format program, the WIDE button switches between displaying the picture with black bars down the sides, and enlarging the picture so that it fills the whole width of the screen but the top and bottom are cropped off.

With a standard format TV displaying a widescreen program, the WIDE button switches between displaying the picture with black bars at the top and bottom of the screen, and filling the whole height of the screen but cropping the sides off according to instructions broadcast with the program (called 'pan and scan').

The effect of the WIDE button on the screen display is cancelled by pressing WIDE again. (Only for FreeView)

6.3 Subtitle

The subtitle button shows/hides subtitles of the channel. When the subtitle button is pressed, subtitle ON/OFF message is displayed.

NOTE: This feature is available only if the channel provider supports subtitles.

6.4 Electronic Program Guide (EPG)

In no menu mode, the EPG Menu is reached by pressing GUIDE button and exited by pressing the GUIDE button again. In the EPG Menu all channels are displayed. Current program is highlighted. Use ▲/▼ buttons to change channels.

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 a channel then, "No Information" is displayed. If you highlight an event, short event description, extended event description, start and finish times of event are displayed on the screen. In the EPG Menu, you can easily see the extended help information by pressing the INFO button and by pressing this button again you can close this window.

Press MENU button to view the 7 day EPG. Press ▲/▼ to navigate in Channels or Programs. Use ◄/► buttons to navigate through the channel and program list. Using RED/GREEN buttons you can change schedule time. By pressing YELLOW/BLUE you can advance the schedule backward/forward of a day. If you press INFO button you can see easily the detailed help information and by pressing info button again you can exit Help menu.

The starting time for EPG is the current time. You can see the event information for the next two hours. By pressing ▲/▼ button, you can go to the next/previous hours. If you press SELECT when a next event is highlighted, a reminder is set for the highlighted program and a clock appears on the screen. Program reminders can be set to signal that a program is about to start when you are watching another channel. If you set reminder to a program, then you will be asked for switching to that channel when the reminder time is reached.

7. LIMITATIONS AND SOME OTHER FEATURES

7. 1 Recorder Features And Limitations

1) This DVD recorder cannot record on a disc previously recorded by another machine unless it is erased (available only with DVD+RW or DVD-RW)
2) On one disc, you can keep 49 titles.
3) There is no time search on a recorded disc, so use auto chaptering as much as possible.
4) You cannot record PAL/NTSC on the same disc.
5) You must finalize DVD+R or DVD-R/DVD-RW to play on other DVD / players / recorder. If you do not then may not play with other devices.
6) Maximum recording time depends on the record quality option you choose.
7) When playing a CD with MP3 files

   • MP3 discs should be ISO9600 or JOLIET format
   • When naming MP3 files, do not exceed 8 characters and place .MP3 as the file extension
   • Do not copy copyright MP3 files
   • Do not exceed more than 500 files per folder

8. SPECIFICATIONS (FOR DVD)

Power Requirements	220 – 240 Volt ~50Hz (Auto Adjustable)	
Power Consumption	Standby	18 Watt
	Maximum	38 Watt
Supported Recording Media	DVD	DVD+R, DVD-R DVD+RW, DVD-RW
Supported Playback Media	DVD	DVD-Video DVD-R (DVD Video or data) DVD-RW (DVD Video or data) DVD+R (DVD Video or data) DVD+RW (DVD Video or data)
	CD	CD-Audio CD-R CD-RW (S)VCD Kodak Picture CD Copy Protected Audio CD
Video Type	MPEG-2 Video Standard Decoding (MPEG-1 supported) Full-screen video display of 720x576 (PAL) & 720x480 (NTSC) 50 and 60 Hz frame refresh rates (PAL&NTSC) Digital bit stream processing rate up to 10.08 Mbits/sec Line resolution more than 500 lines	
Video Input	Front	RCA/Phono sockets -Composite video in
	Rear	Via SCART Aerial in
Video Output	CVBS	PAL / NTSC(Negative synchronized), 1Vpp@75 ohm (loaded)
	RGB+CVBS	Through Full Euroscart Output (Pin-16 control)
	Aerial	
Audio Type	Dolby Digital Decoding MPEG Multichannel (Up to 5.1 channel) Decoding LPCM (24 bit 96 kHz, 48kHz down sampling) MP3	
Audio Input	Front	RCA/Phono sockets - Stereo Analog L/R
	Rear	SCART (Analog L/R)
Audio Output	Digital Audio Outputs	S/PDIF (AC-3 or DTS encoded 5.1 channel digital audio) Optical and/or Coaxial.
	Analog Outputs	24 Bit / 192 kHz DAC
		2 RCA jack outputs (Left / Right)
		Left / Right Audio Outputs of Full Euroscart
		2 Vrms (0 dB fs, 1kHz)
Receiving Channels	UHF (Band U)	
Number of Preset Channels	500	
Copy-Protection	Macrovision 7.1	
Dimensions	430 (W) x 60 (H) x 325 (D)	
Weight (Device) (kg)	4,106 kg	
Weight (Device+ gift box) (kg)	5,020 kg	

9. SPECIFICATIONS (FOR FreeView)

SYSTEM

Processor	NEC µPD61115 32bit RISC MIPS @ 166MHz
Flash memory	2 Mbyte
DDRRAM	16 Mbyte

RECEPTION

Frequency range	474 MHz - 850 MHz
Signal level	-35 dBm to -79,2dBm
Transmission stds.	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 16 / 22.05 / 24 / 32 / 44.1 / 48kHz

10. TROUBLESHOOTING GUIDE (FOR DVD)

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.
- Ensure that the DVD disc is in the tray with the label uppermost.
- A damp DVD disc or condensation may effect the equipment. Wait for 1 or 2 hours in Stand-by to dry the equipment.

Disc does not play
- No disc in the machine.
  Place a disc in the tray.
- Disc incorrectly loaded.
  Ensure that the DVD disc is in the tray with the label uppermost.
- Wrong type of disc. The machine cannot play CDROMs etc.
  Use disc in supported formats.
- The region code of the DVD must match that of the recorder.

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.

The picture colors are not OK
- Check the video output mode and select the appropriate mode.

No picture
- Check if the recorder is connected to TV properly and that all connections between the DVD recorder and other attached equipment are secure.

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 is selected.

No response from remote control
- Make sure the remote control is in the correct mode.
- Check the batteries are fitted correctly.
- Change the batteries.

Record button does not start recording
- Make sure there is a recordable (DVD+RW, DVD+R, DVD-R or DVD-RW) disc inside the recorder.
- If you wish to record from the SCART, CVBS source, make sure that the record source is active and sending signals.
- To record from a DVD player the DVD should not be copy protected.
- If there is no space left on the disc you will see the error message "disc is full." Erase some titles to create space for new recordings.

Switch to a source, but there is no signal
- Make sure the antenna is connected to RF input and there is TV broadcast on some channels.
- If you are using scart, CVBS video inputs, make sure the record source is properly connected and switched on.

Timer recording does not work
- Make sure that the system time and record start time are set correctly.
- Make sure that the program number of the scheduled record is on the program list.
You will not be able to record, if the program number found during APS does not contain an active channel.

If nothing works
- If you have tried the above solutions and nothing seems to work, try switching your DVD off and on again. If this does not work, contact your supplier or your nearest service agent. **Never attempt to repair a defective DVD recorder yourself.**

NOTE: Please note that you may experience compatibility problems during playback or editing of the discs that are recorded on other DVD Recorder Brands.

11. TROUBLESHOOTING GUIDE (FOR FreeView)

Problem	Possible Cause	What to do
No signal found	Aerial is disconnected Aerial is damaged/misaligned Out of digital signal area	Check serial lead Check aerial Check with dealer
No picture or sound	Tuned to digital teletext channel	Retune to another channel
No responses to remote control	Receiver off Handset not aimed correctly Front panel obstructed Handset batteries exhausted	Plug in and turn on receiver Aim handset at front panel Check for obstructions Replace handset batteries
Forgotten channel lock code		
Forgotten menu lock code		Please look at last page
The remote will not operate FreeView	The batteries in your remote control need replacing There is an obstruction blocking the signal path between the remote control and the receiver.	Replace the batteries Check that there is nothing in the way of the path between the remote control and receiver.
After moving your Recorder to to another room/location you cannot receive FreeView	The aerial feed may be routed via a feeder distribution box which will prevent FreeView reception.	Try using another aerial
No video at Top Up Tv channels.	Top Up Tv channels requires Conditional Access Module. This feature is not supported in this product.	
Cannot receive VHF analog channels.	This product supports only Freeview network (digital video broadcast).	

> **If You Forget The Password:**
>
> Press 3, 3, 0, 8.
> Then please set your personal password.

NOTE: If you require a replacement for any of the items listed
below, please quote their corresponding part numbers:
Replacement Parts Part Number
Remote Control   30049230
Quick Start Guide   50135718
Instruction Manual   50135717

ENG

Following information is only for EU-member states:

The use of the symbol indicates that this product may not be treated as
household waste. By ensuring this product is disposed of correctly, you will
help prevent potential negative consequences for the environment and
human health, which could otherwise be caused by inappropriate waste
handling of this product. For more detailed information about recycling of
this product, please contact your local city office, your household waste
disposal service or the shop where you purchased the product.

Notes for battery disposal:
When discarding batteries, environmental problems must be considered and
local rules or laws governing the disposal of these batteries must be followed
strictly. Your product contains batteries covered by the European
Directive 2006/66/EC, which cannot be disposed of with normal household
waste. Please inform yourself about the local rules on separate collection
of batteries. The correct disposal of batteries helps prevent potentially negative
consequences on the environment and human health.

Helpline No:0844 800 3090