

Goodmans

GDVDR 305 DVBT

FREE-TO-VIEW
DIGITAL TERRESTRIAL
DVD RECORDER

Instruction Manual

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Dear Customers

We would like to thank you for purchasing this DVD+RW, DVD+R, DVD Video, DVD-R, DVD-RW, Audio CD, MP3, JPEG, MPEG, VCD, SVCD, CD-R, CD-RW playback, DVD+RW, DVD+R recording player with built-in FreeView Digital Terrestrial Receiver.

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

SAFETY INFORMATION

CAUTION

**CLASS I
LASER PRODUCT**

LASER CLASS I

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

DVD Recorder is a Class I laser product. However this product uses a visible laser beam which could cause hazardous radiation exposure.

Be sure to operate the player correctly as instructed.

While this player 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 player 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.

WARNING

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.



WARNING
DO NOT OPEN
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 to persons.

CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE SCREWS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

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.

GENERAL PROPERTIES

- 1) DVD+RW, DVD+R, DVD Video, DVD-R, DVD-RW, Audio CD, VCD, SVCD, CD-R, CD-RW, MP3, JPEG, playback
DVD+RW, DVD+ R recording
- 2) Recording in different qualities (Best, High, Medium, Basic)
- 3) Integrated FreeView Digital Terrestrial Receiver
- 4) Thumbnail title menu for DVD +R/RW recording
- 5) Deleting, Renaming recorded titles
- 6) Disc rename for DVD+R, DVD+RW
- 7) Disc erase and record protection for DVD+RW
- 8) 7 Day Electronic Programme Guide (EPG)
- 9) Adding chapter markers
- 10) Recording with timer
- 11) Zoom function
- 12) NTSC / PAL playback and recording
- 13) User friendly OSD menu control
- 14) Vacuum Fluorescent Display (VFD)
- 15) Dolby Digital, DTS, LPCM audio via coaxial and optical digital audio outputs.
- 16) (Only for DVD) Multiple aspect ratio support (16:9 Widescreen, 4:3 Letterbox, 4:3 Pan&Scan)
- 17) (Only for DVD) Multi-audio (up to 8) support (according to disc content)
- 18) (Only for DVD) Multi-subtitle (up to 32) support (according to disc content)
- 19) (Only for DVD) Multi-angle (up to 9) support (according to disc content)
- 20) One Touch Recording (OTR)
- 21) Fast forward and rewind
- 22) Slow motion playback
- 23) Time search
- 24) Repeat chapter/title
- 25) A - B Repeat
- 26) Program function for MP3 and JPEG
- 27) FreeView Antenna input
- 28) 2 Scart Socket
- 29) Composite Video Output
- 30) S-Video Output
- 31) Coaxial & Optical Digital Audio outputs
- 32) Scart Copy in Standby
- 33) 5.1 Analog Audio Output
- 34) Pause recording

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

- CD-R, DVD-R, DVD+R (Recordable) and CD-RW, DVD-RW, DVD+RW (Rewritable) discs, recorded by other device 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 with the following undesired consequences:
 - Some discs may not be read at all.
 - Some discs may cause system crash after playing for a while.
 - Some parts of the disc may be skipped or worked 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.

Warning; To prevent fire / shock hazard. Do not expose this appliance to Dripping or splashing water.

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

CAUTION

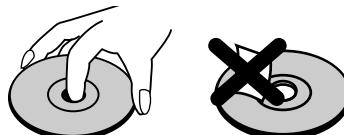
Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

NOTE: Recordings made will be 2 channel and not 5.1 Channel.

NOTES ON DISCS

On handling discs:

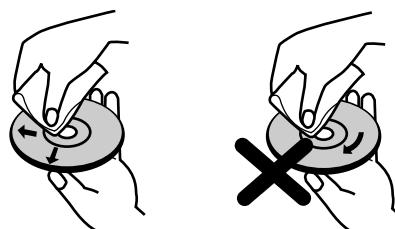
- To keep the disc clean, handle the disc by its edge. Do not touch the surface.
- Do not stick paper or tape on the disc.
- If the disc is contaminated with any substance like glue remove before using it.



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

On cleaning:

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



Discs that should not be used:

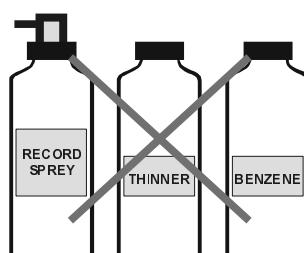
Only the discs including the marks shown on this page can be played. (See also title "Supported Discs")

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 player.

Please use good quality discs. Low quality discs will cause disc and recording errors.



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



WIRING THE PLUG

If your receiver is fitted with a non-rewireable plug and you need to change the fuse, you will need to refit the fuse cover. If you lose or damage the fuse cover, do not use the plug until you have replaced the cover with a new one. Make sure you replace the fuse cover with one which is the same colour as the markings on the fuse.

If you have to change the plug because it is not suitable for your socket or it is damaged, cut off the plug and fit another one following the wiring instructions below. Please throw away the plug you have removed, as insertion into a mains socket could cause injury.

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

WIRING INSTRUCTIONS

Your receiver is designed to operate on 230 to 240V AC, 50Hz current only.

Connecting it to another power source may damage the receiver.

The wires in the mains lead are coloured as follows.

Blue = Neutral Brown = Live

WARNING

To prevent electric shocks, do not remove the cover

IMPORTANT

The colours of the wires in the mains lead from your receiver may not be the same as the coloured markings identifying the terminals in your plug. So please follow these instructions.

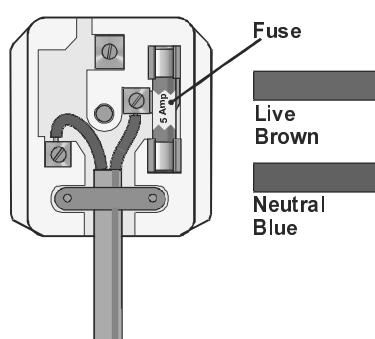
Connect the blue wire to the terminal marked with the letter N or coloured black.

Connect the brown wire to the terminal marked with the letter L or coloured red.

Do not connect any wire to the other terminal on the plug.

If you use a 13 Amp (BS1363) plug, you will need a 5 Amp fuse.

If you use any other type of plug, you will also need a 5 Amp fuse either in the plug or on the distribution board.



SAFETY PRECAUTIONS

Power Source:

The unit should be operated only from a 230-240V~ 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.

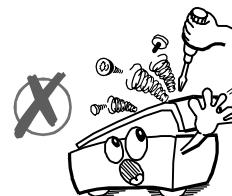
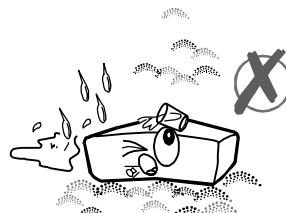
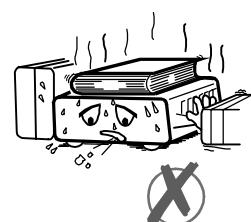
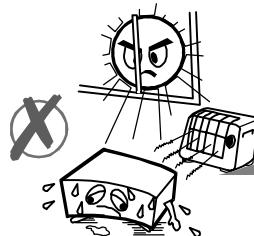
- The player is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the player itself has been turned off.
- If you are not going to use the player for a long time, be sure to disconnect the player from the wall outlet.
- If recording process is interrupted by power source or similar effect, recording or disc might be corrupted.

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.

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 player 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 player in a location with adequate ventilation to prevent heat build-up in the player.
- Should any solid object or liquid fall into the cabinet, unplug the player and have it checked by qualified personnel before operating it any further.

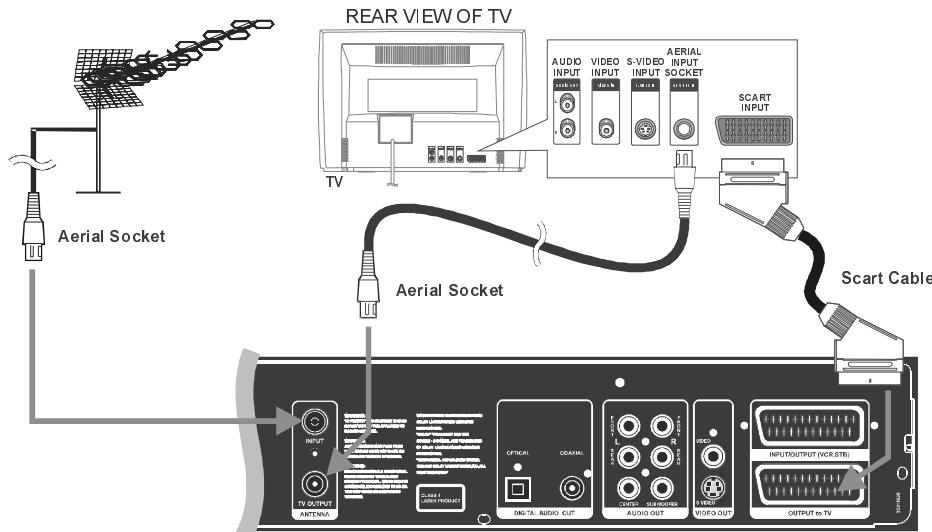


AERIAL CONNECTION

CONNECTING YOUR DVD RECORDER TO THE TV SET

The necessary cable connections must be made before you can record or playback TV programmes using your DVD recorder.

Connect the DVD recorder directly to your TV set. If there is a video recorder in between the picture quality may be poor because of the copy protection system built into the DVD recorder.



Scart and Aerial loop through connections to TV

CONNECTING WITH A SCART CABLE (ANTENNA/AV RECEIVER)

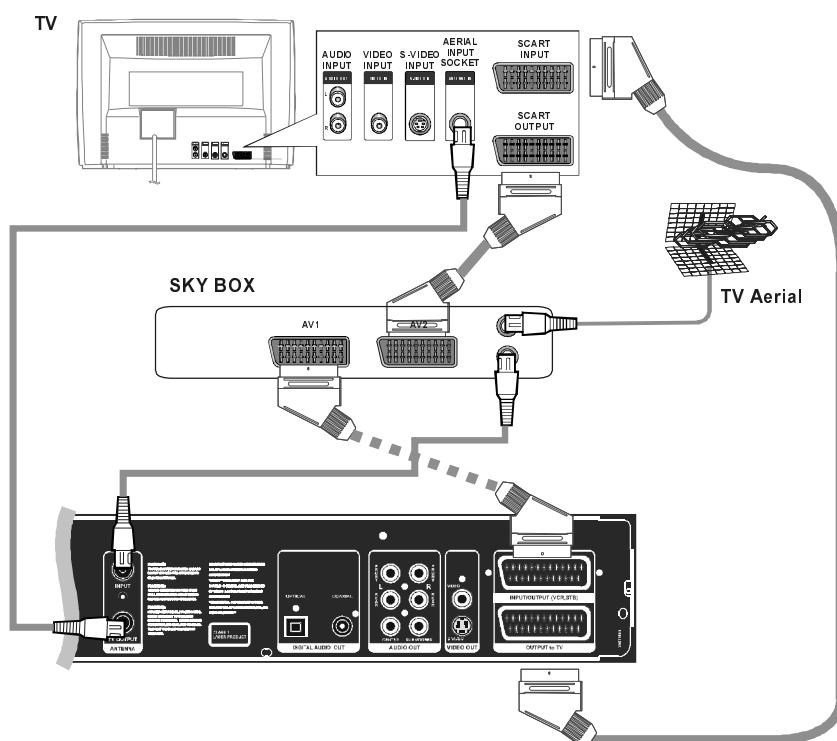
Have the following cables ready: an aerial cable, a mains cable, a scart cable.

1. Remove the aerial cable plug from your TV set. Insert it into the ANTENNA socket at the back of the DVD recorder.
2. Insert one end of the supplied aerial cable into the TV socket at the back of the DVD recorder and the other end into the aerial input socket at the back of the TV set.
3. Plug a scart cable into the scart socket OUTPUT to TV at the back of the DVD recorder and the scart socket for the DVD recorder at the back of the TV set (see TV set operating instructions).
4. Switch on the TV set.
5. Insert one end of the supplied mains cable into the mains socket MAINS at the back of the DVD recorder and the other end into the wall socket.
6. Press the power button on the recorder remote. In a short while the recorder display will light up and the TV should show the first time installation screen. If this does not show then try pressing the AV button on the TV remote until the installation screen is showing for the scart socket, e.g. 'EXT', '0', 'AV'

CONNECTING TO A SKY BOX

Note: Turn the power off to your TV / Recorder before making any connections.

1. Connect the supplied Scart Lead to the GDVR 305 DVBT Scart Out socket and the other end to the TV Scart In socket.
2. Disconnect the aerial lead from the TV and reconnect to the Antenna In socket on the SKY box.
3. Connect the supplied RF Loop through aerial cable to the TV Out socket on the GDVR 305 DVBT. Connect the other end to the TV Aerial In/Out socket.
4. Connect an RF Loop through aerial cable to the TV aerial Out socket on the Sky Box. Connect the other end to the aerial input socket on the GDVR 305 DVBT.
5. Connect a Scart Lead to the SKY Box AV1 socket and the other end to the GDVR 305 DVBT Scart IN socket.
6. Connect another Scart Lead to SKY Box AV2 socket and the other end to the TV Scart 2 socket.

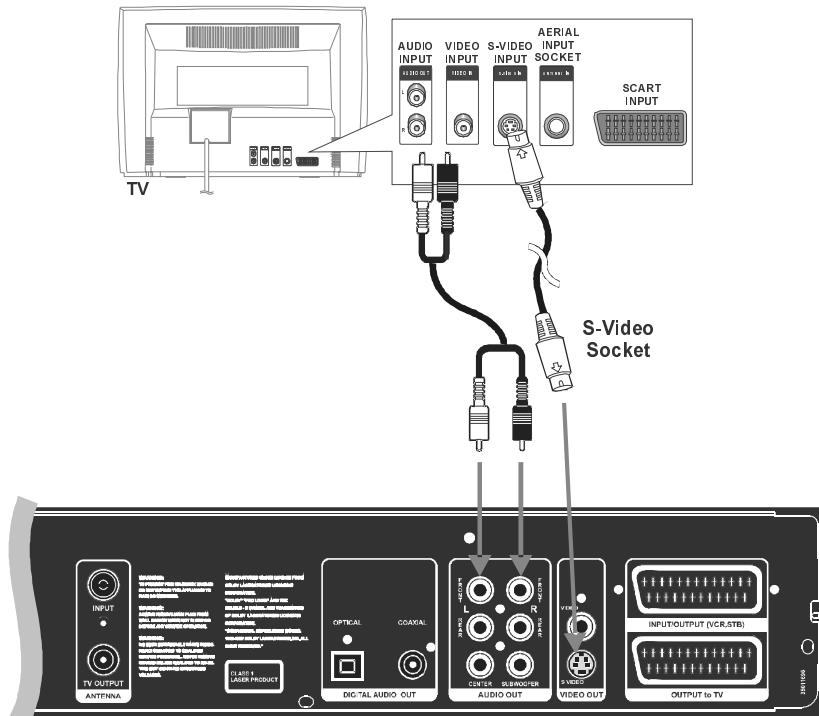


CONNECTING WITH AN SVIDEO (Y/C) CABLE

Have the following cables ready: an aerial cable, a mains cable, an S-Video (SVHS) cable, an audio cable.

1. Remove the aerial cable plug from your TV set. Insert it into the ANTENNA socket at the back of the DVD recorder.
2. Insert one end of the supplied aerial cable into the TV socket at the back of the DVD recorder and the other end into the aerial input socket at the back of the TV set.
3. Insert one end of a S-Video (SVHS) cable into the OUT S-VIDEO (Y/C) socket at the back of the DVD recorder and the other end into the S-Video (SVHS) input socket on the TV set (usually labeled 'S-Video in' or 'SVHS in'. See TV operating instructions).
4. Insert one end of the supplied audio (Cinch) cable into the red/white Cinch socket L/R AUDIO OUT at the back of the DVD recorder and the other end into the audio input socket (usually red/white) on the TV set (usually labeled 'Audio in' or 'AV in'. See TV operating instructions).
5. Switch on the TV set. Switch the TV set over to this input socket or select the relevant channel number. Please see your TV's operating instructions for the channel number you need.
6. Insert one end of the supplied mains cable into the mains socket MAINS at the back of the DVD recorder and the other end into the wall socket.

ALL CABLES SHOWN BELOW ARE NOT SUPPLIED. THESE MAY BE PURCHASED FROM MOST ELECTRIC / TV HIGH STREET DEALERS.

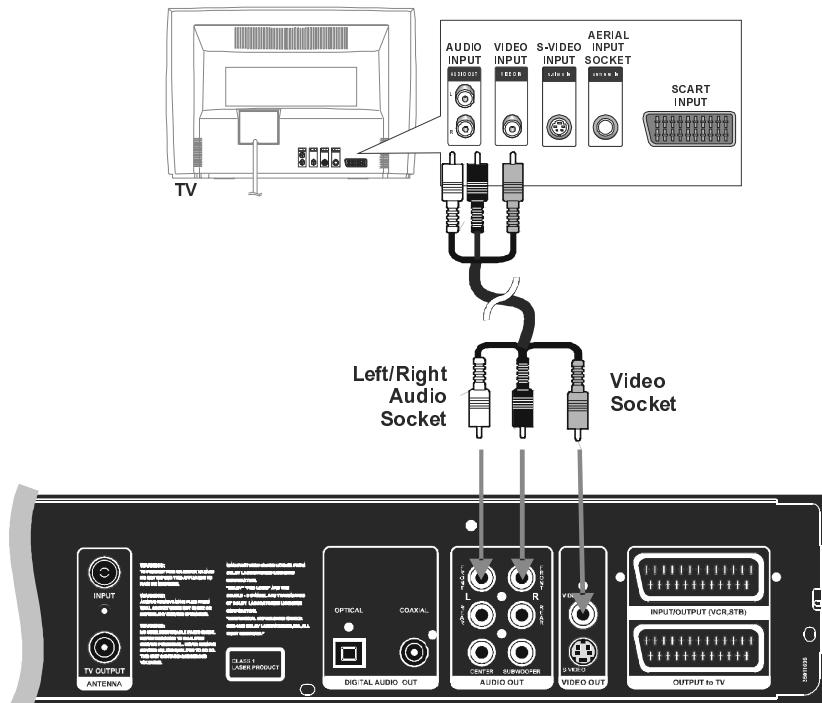


S-Video connection to TV

CONNECTING WITH VIDEO(CVBS) CABLE

Have the following cables ready: an aerial cable, a mains cable, a video (CVBS) cable, an audio cable.

1. Remove the aerial cable plug from your TV set. Insert it into the ANTENNA socket at the back of the DVD recorder.
2. Insert one end of the supplied aerial cable into the TV socket at the back of the DVD recorder and the other end into the aerial input socket at the back of the TV set.
3. Insert one end of the supplied video (CVBS) cable into the yellow Cinch socket OUT VIDEO (CVBS) at the back of the DVD recorder and the other end into the video input socket (usually yellow) on the TV set (usually labeled 'Video in' or 'AV in'. See TV operating instructions).
4. Insert one end of the supplied audio (Cinch) cable into the red/white Cinch socket L/R AUDIO OUT at the back of the DVD recorder and the other end into the audio input socket (usually red/white) on the TV set (usually labeled 'Audio in' or 'AV in'. See TV operating instructions).
5. Switch on the TV set. Switch the TV set over to the Video/Audio input socket or select the relevant programme number. Please see your TV's operating instructions for the programme number you need.
6. Insert one end of the supplied mains cable into the mains socket MAINS at the back of the DVD recorder and the other end into the wall socket.



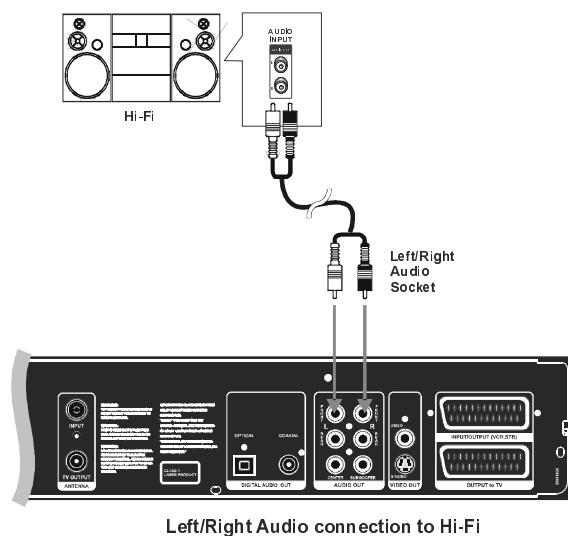
Composite Video (CVBS) connection to TV

CONNECTING AUDIO DEVICES TO THE ANALOGUE AUDIO SOCKETS

Six analogue audio sockets Left/Right/Center/Subwoofer/Surround Left/Surround Right AUDIO OUT are located at the back of the DVD recorder.

These can be used to connect the following:

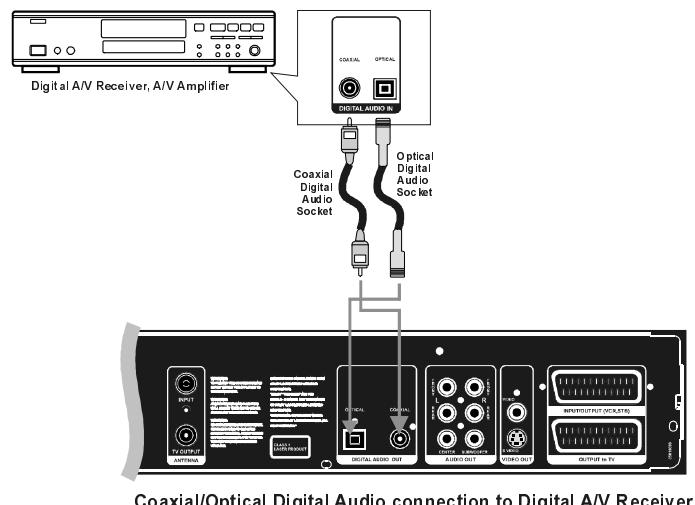
- a receiver with Dolby Surround Pro Logic
- a receiver with two channel analogue stereo



CONNECTING AUDIO DEVICES TO THE DIGITAL AUDIO SOCKET

At the back of the DVD recorder there is a digital audio output sockets DIGITALAUDIO OUT for an optical and coaxial cable.

These can be used to connect the unit to an external audio amplifier.



CONNECTING EXTERNAL DEVICES TO THE SECOND SCART SOCKET

You can connect external devices such as decoders, satellite receivers, camcorders, etc. to the INPUT/OUTPUT (VCR,STB) socket. To watch the external device source, press video source button during "watch TV" mode.

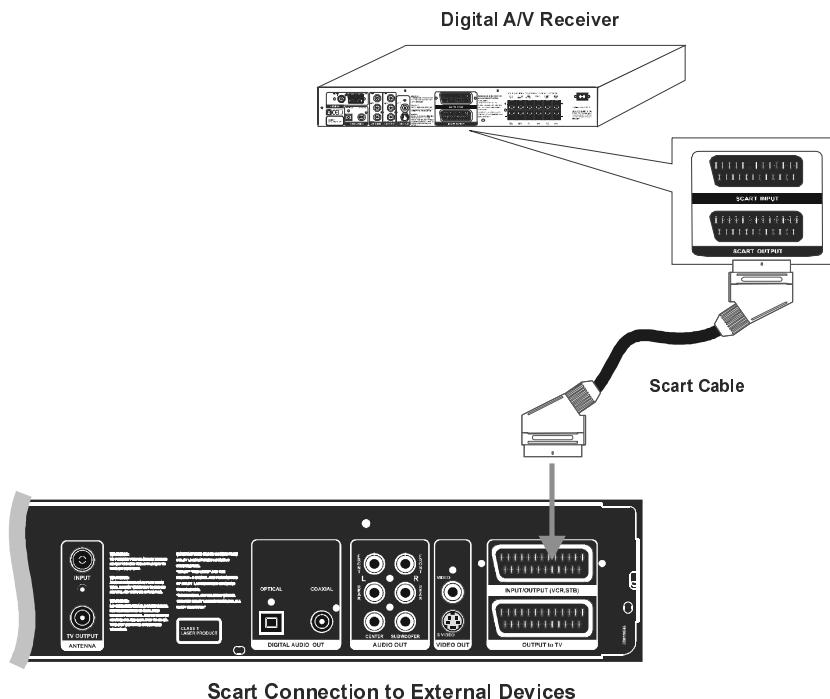
In standby mode, when playback is started on this additional device, DVD recorder automatically connects the INPUT/OUTPUT (VCR,STB) scart socket with the OUTPUT to TV scart socket.

CONNECTING EXTERNAL VIDEO RECORDERS / DVD PLAYERS

You can connect a video recorder or DVD player to the INPUT/OUTPUT (VCR,STB) socket.

Please note:

Most pre-recorded video cassettes and DVDs are copy-protected. If you try to copy them you will see a prohibition message on screen.



CONNECT CAMCORDER TO THE FRONT SOCKETS

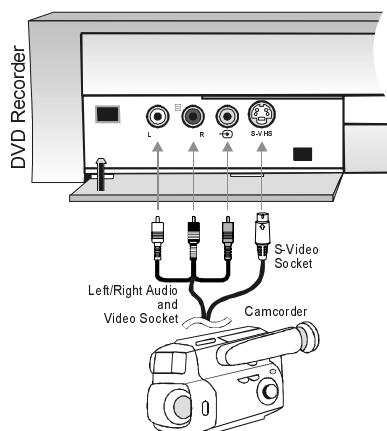
To copy camcorder recordings, you can use the front sockets. These sockets are located behind the flap on the left hand side.

Very good Picture Quality

If you have a Hi8 or S-VHS(C) camcorder, connect the S-VIDEO input of the DVD recorder to the appropriate S-VHS output on the camcorder. You must also connect the audio input left AUDIO right on the DVD recorder to the audio output on the camcorder.

Good Picture Quality

If you have a camcorder that only has a single video output (Composite Video, CVBS), connect the VIDEO input on the DVD recorder to the appropriate output on the camcorder. You must also connect the audio input left AUDIO right on the DVD recorder to the audio output on the camcorder.



Connect Camcorder to the Front Sockets of DVD Recorder

BASIC OPERATIONS

When you power on the unit, it will:

1. Load the disc if there is one inside the tray
2. Switch to monitor mode if there is no disc.

Whenever your recorder is in stop mode, it will switch to monitor mode.

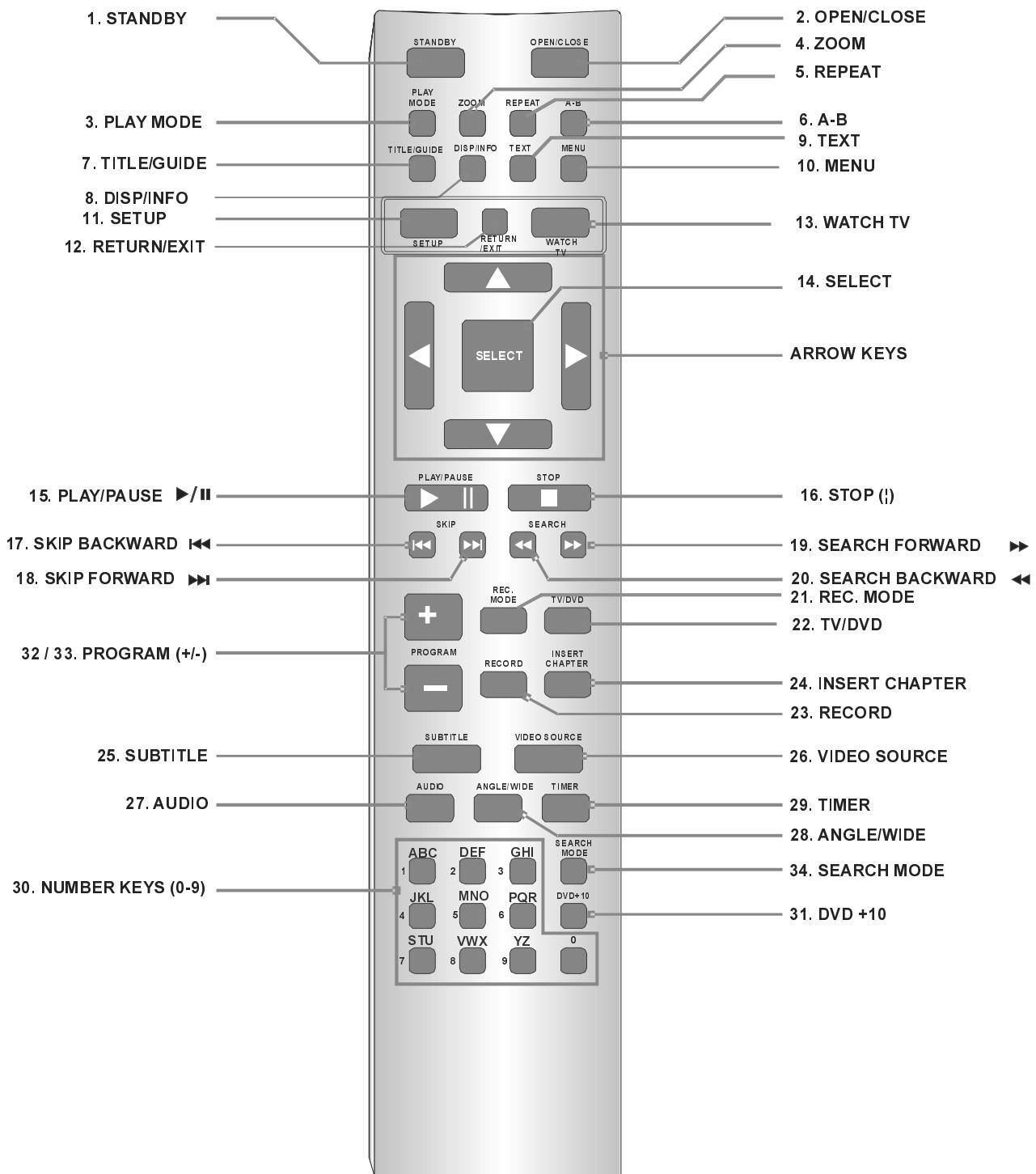
For transitions between the disc playback, monitoring and setup menu:

1. Press play/pause key if you want to switch to disc playback mode in monitor mode or setup menu.
2. Press watch tv key if you want to switch to monitor mode in playback or setup menu state.
3. Press setup key to enter setup menu in playback or monitoring states.

Please note that the above keys function differently under different conditions. Also, you will not be able to use SETUP key during recording. Stop key will end recording.

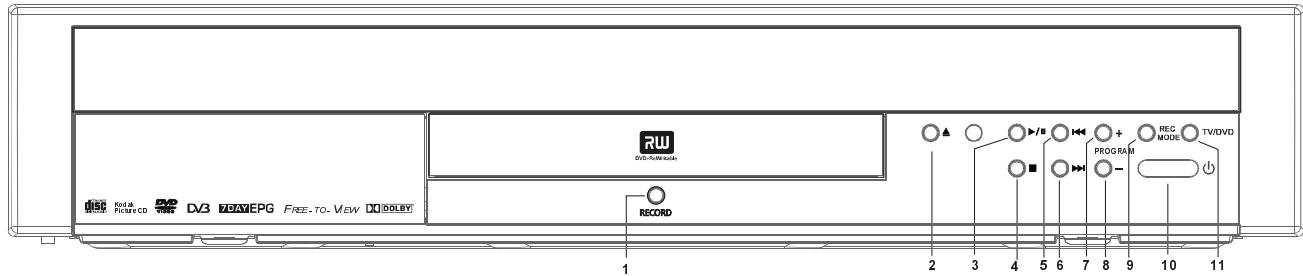
In FreeView mode, you can use your system as FreeView receiver.

THE REMOTE CONTROL



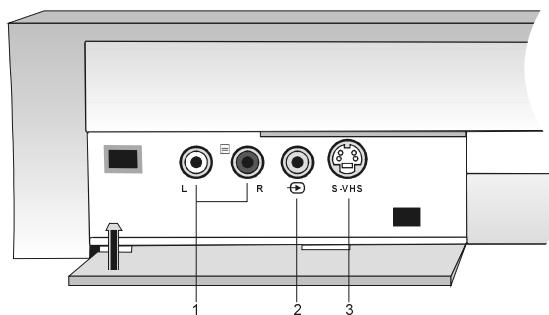
1. STANDBY 	: Press to power or set the recorder to standby mode.
2. OPEN/CLOSE	: Press to open / close DVD drawer.
3. PLAY MODE / RED	: To program MP3 and JPEG tracks. In FreeView mode move up a page through channel list. Select RED option in digital teletext.
4. ZOOM / GREEN	: Enlarge the image. FreeView mode move down a page through channel list . Move to bottom in EPG programme details. Select green function in digital teletext
5. REPEAT/ YELLOW	: To play title and chapters repeatedly. For FreeView mode , scroll up through EPG program details. Select YELLOW option in digital teletext.
6. A-B / BLUE	: Repeat a selection from point A to point B. In FreeView mode, scroll down through EPG program details. Select BLUE option in digital teletext.
7. TITLE / GUIDE	: If DVD supports, to choose the title menu in DVD discs. Display and exit EPG in FreeView mode.
8. DISP / INFO	: Choose to display the number of title and chapter information and title/chapter time. Display menu Help in FreeView mode.
9. TEXT	: Start and stop digital teletext.
10. MENU	: Displays the DVD menu. It displays FreeView system menu.
11. SETUP	: It opens and closes the system-menu.
12. RETURN / EXIT	: Return to previous menu on a VCD or root foldr in the CD. This function works also on some DVD's. In FreeView mode exits from Epg menu.
13. WATCH TV	: To switch to monitor mode.
14. SELECT	: Select function/value.
15. PLAY/PAUSE 	: Playback a disc. If this button is pressed during playback or recording, operation is paused. Also use this key to switch to disc playback state in setup menu or monitoring modes.
16. STOP 	: Stop playback/recording. When disc playback is stopped, unit will switch to monitoring state.
17. SKIP(BACKWARD) 	: Press the button during playback: Previous chapter/film or previous title. (Only for DVD) Press the button during pause mode. Plays one frame back at each press.
18. SKIP (FORWARD) 	: Press the button during playback: Next chapter/film or next title. Press the button during pause mode: Shows next frame at each press.
19. SEARCH (FORWARD) 	: Fast forward in x2, x4, x6, x8.
20. SEARCH (BACKWARD) 	: Fast backward in x2, x4, x6, x8.
21. REC MODE	: Record type (quality): To select the quality and duration of recording.
22. 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.
23. RECORD 	: Record the selected video source.
24. INSERT CHAPTER	: Inserts a chapter manually to recording media during playback of recorded content.
25. SUBTITLE	: If DVD supports, changes the subtitle language, turns it on or off.
26. VIDEO SOURCE	: Chooses the video source in order FreeView In, Scart CVBS In, S-Video In. The video source key works only when watch TV option is selected.
27. AUDIO	: If DVD supports, switches between audio formats during DVD playback.
28. ANGLE / WIDE	: If DVD supports, select the angle to view a scene. This only works when multiple angles are provided for a scene. Selects screen format in FreeView mode.
29. TIMER	: To program a recording or to alter / clear programmed recordings.
30. NUMBER KEYS (0-9)	: 0 - 9. Also used for channel rename in FreeView mode.
31. DVD +10	: Enter corresponding numbers in DVD mode (to go beyond 10, enter +10 then another number).
32. PROGRAM +	: Goes to next programme while watching TV.
33. PROGRAM -	: Goes to the previous programme while watching TV.
34. SEARCH MODE	:Press to move to any desired title/chapter/track/time within the disc.

FRONT PANEL BUTTONS



- 1. RECORD** : Record the selected video source.
- 2. OPEN/CLOSE** : Open/close the disc tray.
- 3. PLAY/PAUSE** : Playback a disc. If this button is pressed during playback or recording, operation is paused. Also use this key to switch to disc playback state in setup menu or monitoring modes.
- 4. STOP** : Stop playback/recording. When disc playback is stopped, unit will switch to monitoring state.
- 5. PREVIOUS** : Press the button during playback: Previous chapter/film or previous title. (Only for DVD) Press the button during pause mode. Plays one frame back at each press.
- 6. NEXT** : Press the button during playback: Next chapter/film or next title. Press the button during pause mode: Shows next frame at each press.
- 7. PROGRAM +** : Goes to next programme while watching TV.
- 8. PROGRAM -** : Goes to the previous programme while watching TV.
- 9. REC MODE** : Record type (quality): To select the quality and duration of recording.
- 10. STANDBY/ON** : To switch the set ON or OFF.
- 11. 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.

FRONT PANEL CONNECTIONS

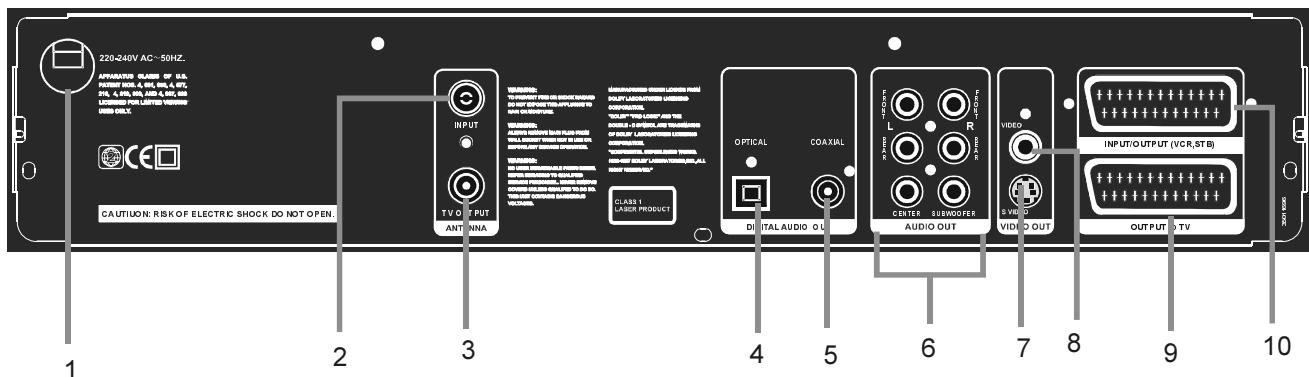


1. L/R Audio : Left (white) / Right (red) audio input socket:
L/R Audio inputs are used for both SVideo and CVBS

2. CVBS (yellow) : Video input socket: Connection of composite video source (camcorders, video recorders, set top box)

3. S-VIDEO : SVideo socket: Connection of S-Video source

BACK PANEL CONNECTIONS



1. MAINS : Power supply .

2. ANTENNA INPUT : Connect the TV aerial to this socket

3. ANTENNA OUTPUT : Connect the aerial loop through cable here and to TV aerial input.

4-5. DIGITAL AUDIO OUT : Connection of a digital audio device (amplifier/receiver)

6. AUDIO OUT Left/Right/Center/Subwoofer/ : Analog audio output : to an external audio amplifier
Surround Left/Surround Right AUDIO

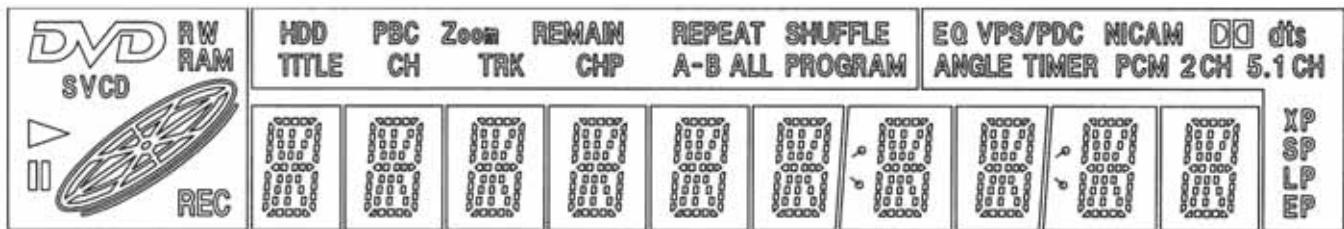
7. OUT S-VIDEO (Y/C) : Video output: Connection of an S-Video compatible TV set

8. OUT VIDEO (CVBS) : Video output: Connection of a TV set with a video input (CVBS, Composite Video)

9. OUTPUT TO TV : Scart socket 1. Connect to TV Scart socket.

10. INPUT / OUTPUT (VCR, STB) : Scart socket 2: Connect an external device (satellite receiver, set-top box, video recorder, camcorder, etc.)

VFD ICONS



These symbols can light up on your DVD recorder display:

- TITLE** : Displays the title number selected/played (DVD)
- TRACK** : Displays the track selected/played (VCD/CD)
- DVD+RW** : Displays the inserted DVD disc: DVD /DVD+R / DVD+RW. Disc types DVD-R/DVD-RW are shown as DVD.
- SVCD** : Displays the CD-disc inserted: S VCD/VCD/CD
- CH** : Displays the chapter selected/played DVD
- REMAIN** : Time remaining
- DTS** : DTS audio signal is available on the digital audio output
- DD** : A Dolby digital 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)
- RECORD** : Recording in progress
- TIMER** : A recording (timer) has been programmed
- 2CH** : During playback a HiFi/2 channel tone was detected or a HiFi/2 channel tone was received.

Multi-function display/Text line

- Clock
- Disc/title playing time
- Display of programme number/name of TV channel.
- Display of information, warnings.

MESSAGES IN THE DVD RECORDER DISPLAY

The following messages may appear in your DVD recorder display:

OPEN	: Disc tray open
CLOSE	: Disc tray closing
LOADING	: Disc being read
NO DISC	: No disc has been inserted for recording or playback. If a disc has been inserted, perhaps it cannot be read.
SETUP	: Setup menu is being displayed.

SUPPORTED DISCS

The following discs can be used in your DVD recorder for playback and recording:

Playback and recording:



DVD+RW (Digital Versatile Disc + rewritable)



DVD+R (Digital Versatile Disc + recordable)

Playback Only:



DVD Video (Digital Versatile Disc)



DVD-R (DVD-Recordable)



DVD-RW (DVD-Rewritable)



These discs can only be played back if the recording was made in video mode and the recording was finalized.



Audio CD



Video CD (format 1.0, 1.1, 2.0)



(Compact Disc Digital Audio)



Super Video CD CD-R (CD recordable)



CD-RW (CD rewritable)



MP3 CD



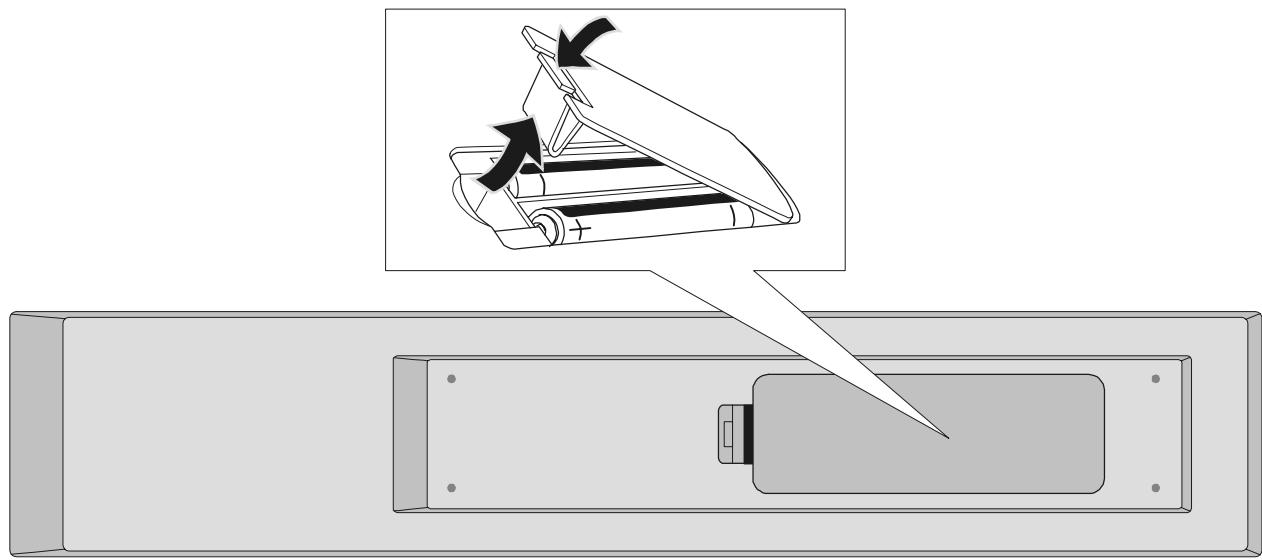
JPEG-Picture CD

Audio/ MP3 contents

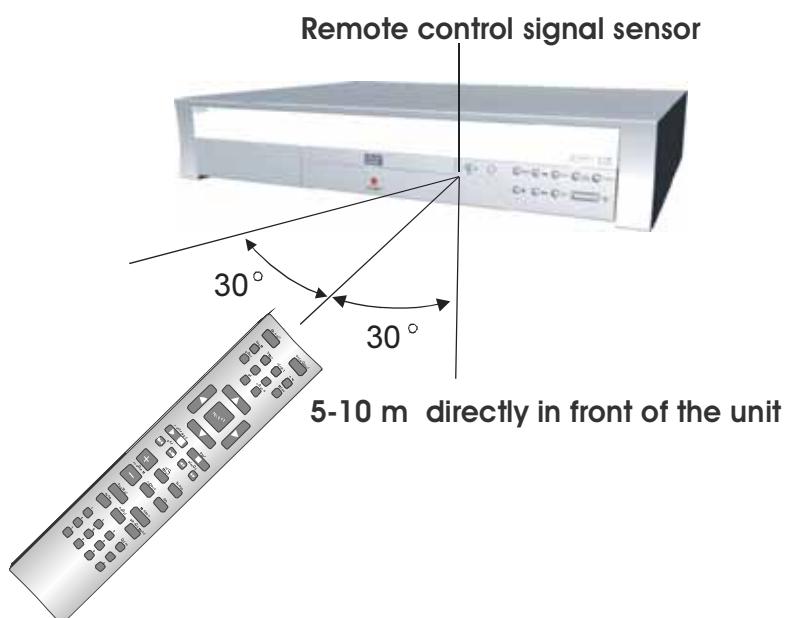
PREPARING THE REMOTE CONTROL FOR OPERATION

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.

1. Take the remote control of the DVD recorder and the enclosed batteries (2x 1,5 V) (R03/AAA batteries)
2. Open the battery compartment, insert the batteries as shown and then close the compartment.



The remote control range is approximately 5 to 10 metres.



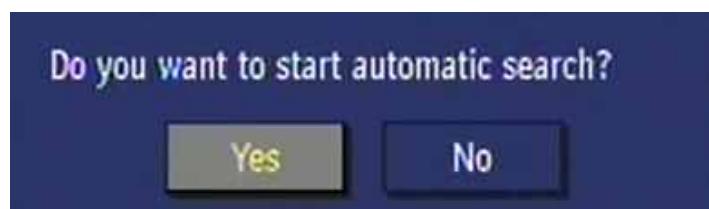
PREPARING YOUR FREEVIEW

SWITCHING ON

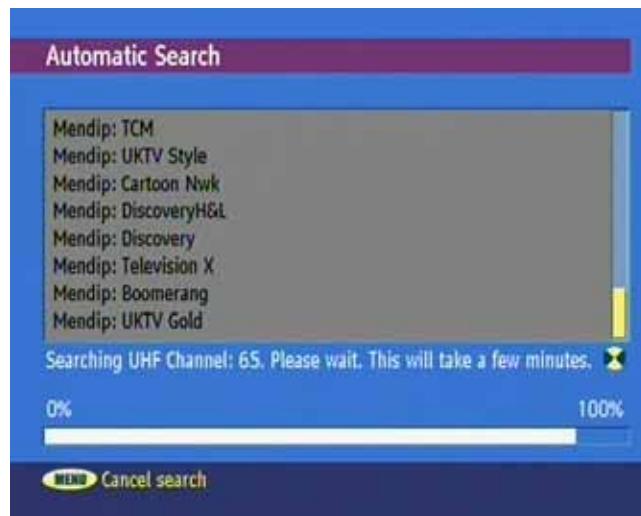
When you first time switch on this recorder there will not be any FreeView channels stored in the unit and it will show a message on the screen to start automatic search.. If you do not see the receiver's menu on the television screen, refer to the Troubleshooting.

TUNING IN

Because 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.



Using the [LEFT] or [RIGHT] keys on the remote control, make sure that the YES button is highlighted and press the [SELECT] key to start the automatic search. The DVB - T 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.



When the search is finished, the first channel of the channel list and the information banner is displayed you can now watch digital terrestrial television, selecting the channel you require as described in the next section.

If no digital terrestrial television broadcasts are found the receiver will display a 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.

EVERYDAY OPERATION

MAIN MENU

You can also select the required channel directly from the on-screen channel list. This is displayed using the FreeView receiver's Main Menu. First bring up the menu with the [MENU] key on the remote control handset.



Using the [UP] or [DOWN] keys on the remote control, make sure that the first item, Channel List, is highlighted and press the [SELECT] key, to display the channel list.

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 image of the channel last viewed is displayed in the top right of the screen.



DELETE

To delete a channel highlight it using [UP] or [DOWN] RED/GREEN, then highlight the “Delete” button using [LEFT] or [RIGHT] and press SELECT. A message is displayed to confirm your decision, if you still want to delete press SELECT once more and the channel will be deleted, else the operation will be cancelled if you select “NO”.



EDIT NAME

The channel names which appear in the channel list and the information banner are assigned by the broadcasters and some longer names are abbreviated to become unrecognisable. You can edit the names to suit your preferences with the Edit Name function. Highlight the channel to be renamed, highlight the EDIT NAME button at the base of the screen using the [LEFT] or [RIGHT] keys, 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 [LEFT] or [RIGHT] keys and the highlighted character changed by pressing the [UP] or [DOWN] keys to cycle through the alphabet, numbers and other characters available.



When the required changes have been made, pressing [SELECT] stores the new name and returns to the Channel List screen. Alternatively, pressing [MENU] will abandon the name change and return to the previous name. You can now perform further editing on the channel list, or return to normal broadcast viewing by pressing the [MENU] key.

Hint

You can also enter a channel name using the number keys on the remote control. Each key represents several letters and pressing a key several times will enter each letter (in both capitals and lower case), and the number, in turn, in the character position marked by the cursor. The zero key enters all the punctuation marks available and a blank space. With practice, this is a very quick means of entering the required letters into the channel name.

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 first a four-digit PIN code 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. Press the [MENU] key on the remote control handset to display the Main Menu and then, using the [UP] or [DOWN] keys on the remote control, make sure that the first item, Channel List, is highlighted and press the [SELECT] key.

Highlight the channel to be locked using the [UP] or [DOWN] keys. You can move through the list 10 channels in one jump using [RED-Play Mode] or [GREENZoom]. Now select the LOCK button at the base of the screen with the [LEFT] or [RIGHT] keys and press [SELECT].



NOTE: Do not forget your new password. Otherwise you can use the password which is stated at last page, to enter the locked menu.

A window requesting the PIN code is displayed and the four-digit code should be entered using the number keys on the remote control, followed by the [SELECT] key. 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 PIN code and the channel will be only 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 channel list highlight "Favourites" by pressing [LEFT] or [RIGHT] keys then press SELECT. The unit will automatically switch to menu "Edit Favourite Lists" in the Main menu. For detailed explanation see "Favourites" on the following page..

FAVOURITES

Any channel can be a favourite channel and the Favourites menu is used to label those channels you want as favourites. Display the Favourites menu screen by highlighting Favourites on the Main Menu and pressing [SELECT].



Use the [LEFT] or [RIGHT] keys to highlight any list button at the base of the screen and then, in turn, highlight each channel that is required to be a favourite channel, using the [UP] and [DOWN] keys (and the [RED] or [GREEN] keys), and press [SELECT]. A channel selected as a favourite appears in the main favourite list with a favourites icon against the channel name. It is possible to create five different favourite lists.

A channel can have its favourite status removed by repeating this procedure, to remove the icon. Leave the Favourites menu by pressing [MENU]. Once the required channels have been marked as favourite channels, the favourite mode can be activated to allow easy access to them. Press the [MENU] key to display the Main Menu and highlight Settings, then press [SELECT] to display the Settings menu. In Settings menu, highlight Configuration and press [SELECT] to open Configuration screen. Highlight the Favourite Mode line and using the [LEFT] or [RIGHT] keys to change and [SELECT] to apply the settings.

When you leave the Configuration menu by pressing [MENU] the favourite mode is activated. Now, changing channel using the [PROGRAM +] or [PROGRAM -] keys will switch to only those channels marked as favourites in the channel list. Similarly, the on-screen list in the electronic programme guide contains only the favourite channels.

You can still access all the channels in the channel list by keying in their channel list number or by selection from the Channel List screen. Alternatively you can switch off the favourite mode from the Favourite Mode line of the Configuration menu.

Hint

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

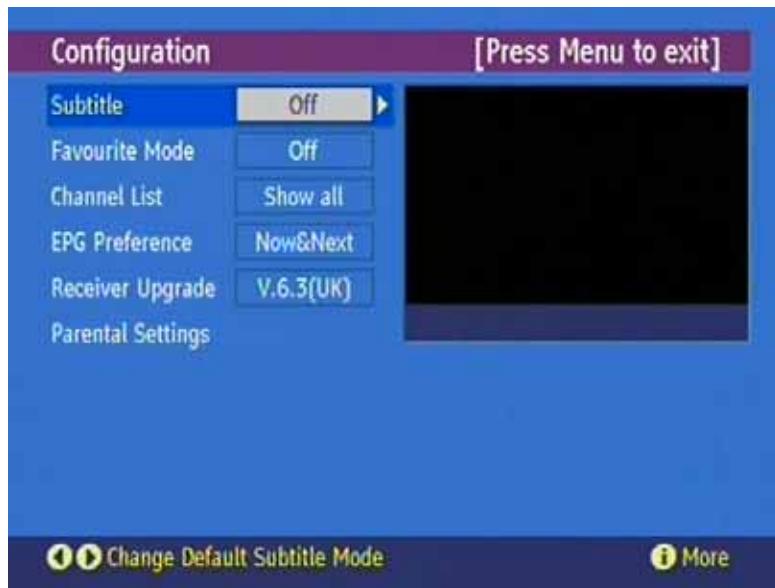
ADVANCED OPERATION

SETTINGS



CONFIGURATION

Many aspects of your FreeView receiver can be set up to reflect your circumstances and preferences. The Configuration menu screen is accessed from the Settings Menu. Press the [MENU] key to display the Main Menu and use [UP] and [DOWN] keys to highlight Settings line then press [SELECT] key to open Settings menu. Again use [UP] and [DOWN] keys to highlight Configuration line and press [SELECT] key to open Configuration menu screen. By means of this menu you can configure the unit.



SUBTITLE

Digital terrestrial television channels can be broadcast with subtitles displayed on-screen for the hard-of-hearing. This function enables the automatic display of subtitles whenever subtitle information is broadcast.

Highlight the Subtitle line in the Configuration menu and use the [LEFT] or [RIGHT] keys to cycle through the On and Off options. Return NO MENU to normal TV viewing by pressing the [MENU] key.

NOTE: Audio and subtitle settings set in FreeView mode are not effective in DVD mode.

FAVOURITE MODE

This function enables or disables the favourite channel list mode. In this mode you can also choose favourite channel list.

CHANNEL LIST

There are three kinds of channels which are TV, radio and text channels. This function enables or disables the categorised channel list mode.

EPG PREFERENCE

Highlight the line in the Configuration menu and use the [LEFT] or [RIGHT] keys to cycle through the Now&Next and 7-Day options.

RECEIVER UPGRADE

To upgrade receiver software manually, highlight Receiver Upgrade line and press [SELECT] key. If there is compatible software in the broadcast, it will automatically upgrade your software.



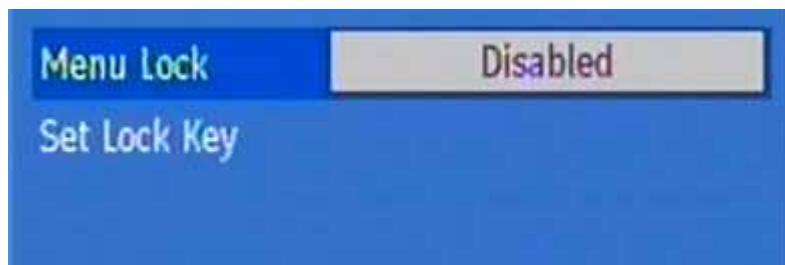
PARENTAL SETTINGS

This function enables or disables the menu protection system and allows the PIN code to be changed. PIN code is 0000 initially.

MENU LOCK

Simply locking a channel will not deflect a determined would-be viewer. Re-installing the complete channel list, for example, will bypass the channel lock. However, the menus can be locked out of use too, to prevent this.

Display the Main Menu by pressing the [MENU] key, highlight Settings, and press [SELECT]. Then highlight Configuration to display the Configuration menu screen. Highlight the Parental Settings line of the menu and press [SELECT] to display the Parental Settings menu (after the PIN code has been entered). Here the menu lock-out can be set and the PIN code changed.

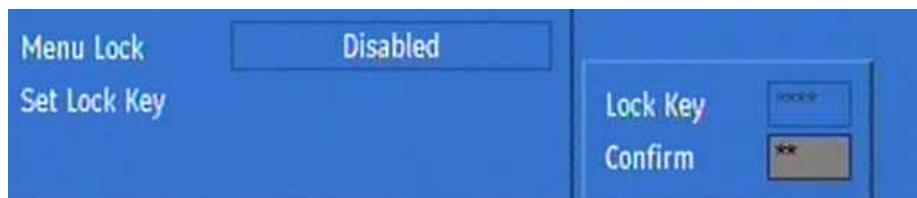


With the Menu Lock line highlighted, use the [LEFT] or [RIGHT] to cycle the menu lock setting through Disabled, Main Menu and Installation. The Main Menu setting will lock out the complete menu system; the Installation Menu setting locks only the Installation menu (see -ADVANCED OPERATION - Re-installation) and the Disabled setting allows free access to any of the menus.

You must return to normal TV viewing by pressing the [MENU] key (three times) to activate the lock. Now any attempt to access the locked menus will display the PIN request window and the menus will only be displayed on entry of the correct PIN code.

SET LOCK KEY

Use "[LEFT] or [RIGHT]" buttons to go to Set Lock Key option. Use SELECT button to enter new password. New Password Menu is displayed. Use NUMERIC buttons to enter new password. New Password is asked twice for confirmation. If both passwords are four digits long and the same, the password is changed. It is updated after exiting the Parental Menu.



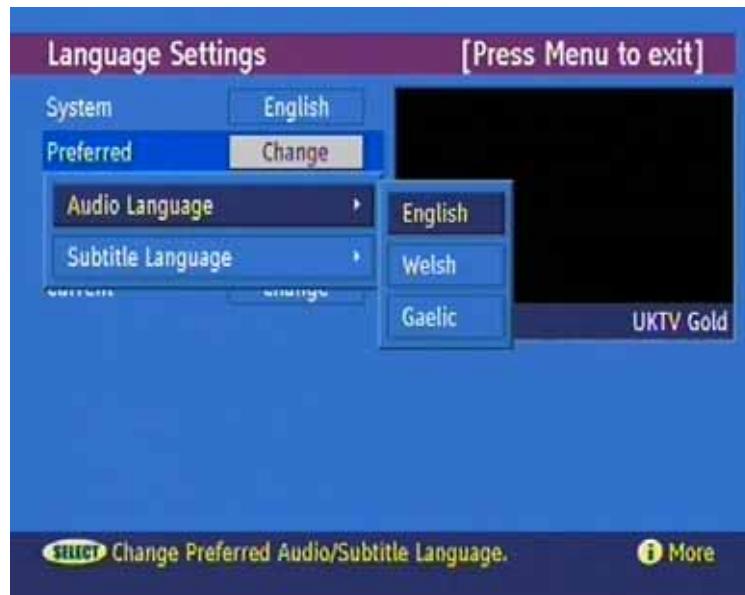
NOTE: Do not forget your new password. Otherwise you can use the password which is stated at last page, to enter the locked menu.

LANGUAGE SETTINGS

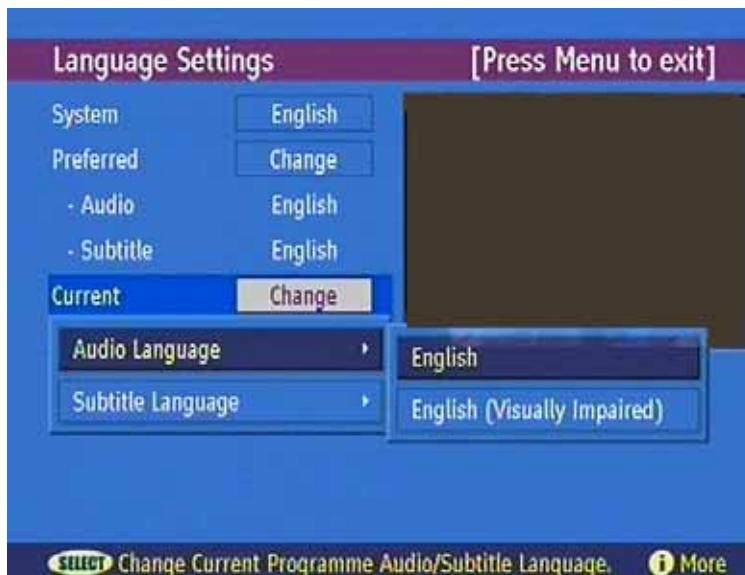
In this menu the user can adjust the preferred language. Language is changed by pressing SELECT key.

System: displays the system language.

Preferred: press SELECT to activate it. By pressing “[UP] and [DOWN]” keys highlight Audio or Subtitle Language. With “[LEFT] or [RIGHT]” buttons you can set the preferred language. The chosen language will be seen in subtitles. To activate your recent settings press SELECT.



Current: via SELECT button current language can be changed. By pressing “[UP] and [DOWN]” keys highlight Audio or Subtitle. With “[LEFT] or [RIGHT]” buttons you can set the preferred language. To activate your recent settings press SELECT.



INSTALLATION

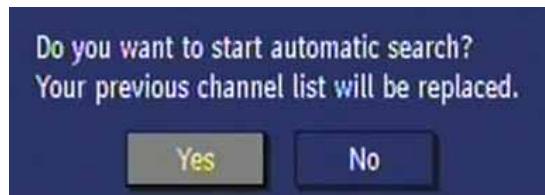
The options located in Installation Menu are :

1. Automatic Search
2. Manual Search



AUTOMATIC SEARCH

Although your FreeView receiver will not lose its settings or stored channels when switched off, you may wish to re-install 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.



Press the [MENU] key to display the Main Menu and using the [UP] or [DOWN] keys, highlight the Settings line and press [SELECT] to display the Settings Menu. Then highlight the Installation line and press [SELECT] to open Installation Menu. You can either perform an automatic search or manual search to add channels.

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 can be observed on the bar graphic at the bottom. The state of the signal quality can also be seen. When [SELECT] is pressed, the receiver searches that frequency and display a list of the channels found before returning to the Installation menu.



NO MENU / RECORDING

DIGITAL TELETEXT

Many digital terrestrial television channels not only broadcast pictures and sound for programmes but also pages of information on the programmes, 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 programme at all. These dedicated digital teletext channels will not give a quarter-screen image 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 programme 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 [UP], [DOWN], [LEFT], [RIGHT] and [SELECT] keys to select items from on-screen menus, and the coloured keys 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/programme channel, to return to normal television viewing of that channel, by pressing the [TEXT] key.

Hint: Calling for the information banner or any menu on-screen stops the receiver from displaying the digital teletext pages and they are temporarily replaced by a blank picture while the banner or menu is displayed. Digital teletext cannot be accessed when the Subtitles are enabled.

WIDESCREEN

TV sets are available with screens of the standard (4:3) format and widescreen (16:9) format.

Digital terrestrial television broadcasts are also made in both standard and widescreen formats. In particular, films and dramas tend to be broadcast in widescreen format to closer emulate the cinema experience, but even some news bulletins are widescreen. To help get the most from both TV set and programme when a widescreen film is watched on a standard TV, or a standard broadcast is viewed on a widescreen set, the Freeview receiver includes the [WIDE] key.

So long as the receiver has been correctly set up for the TV set connected, a widescreen programme will always be displayed correctly on a widescreen set, and a standard format programme will correctly fill the screen of a standard format TV. With a widescreen TV set displaying a standard format programme, the [WIDE] key 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 programme, the [WIDE] key 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 programme (called 'pan and scan').

The effect of the [WIDE] key on the picture display is cancelled by pressing [WIDE] again. (Only for FreeView)

SUBTITLE

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

ELECTRONIC PROGRAM GUIDE (7- DAY - EPG)

In no menu mode, EPG Menu is reached by pressing GUIDE key, quit by pressing GUIDE key again. In EPG Menu all channels are displayed. Current program is highlighted. Use [UP] or [DOWN] 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 channels, only channel names with "No Information" banner 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 EPG Menu, you can easily see the extended help information by pressing INFO key and by pressing this key again you can close this window.

If you press SELECT when a next event is highlighted, an info banner appears. Select "No", 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. When the current program is highlighted, the box is switched to the highlighted channel by pressing OK key.

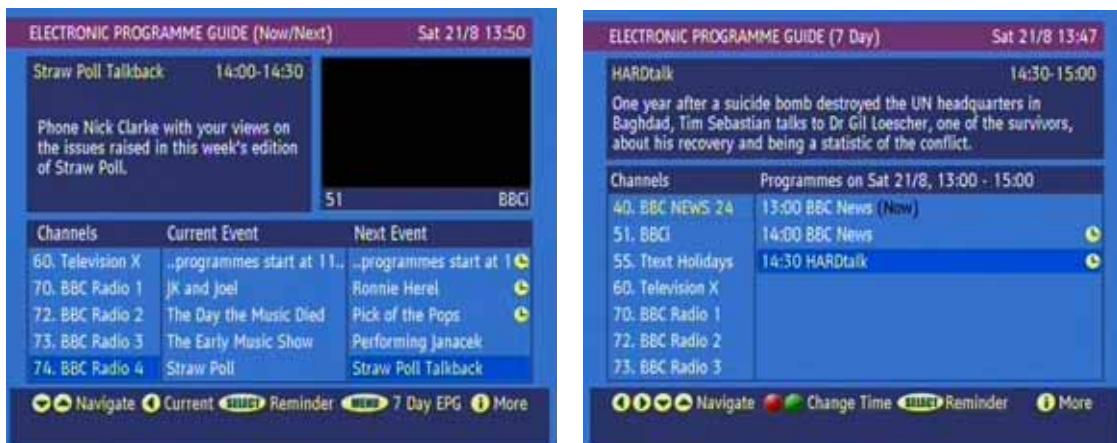


Press MENU key to view the 7 day EPG. Press [UP] or [DOWN] to navigate in Channels or Programmes. [LEFT] and [RIGHT] key to navigate through the channel and program list. With RED/GREEN keys you can change schedule time. By pressing YELLOW/BLUE you can advance the schedule backward/ forward of a day. If you press info key you can see easily the detailed help information and by pressing info key again you can exit Help menu.

NOTE: When info banner is active and SELECT key is pressed, Now&Next EPG is appears on the screen. By means of YELLOW and BLUE buttons you can achieve previous and next time. Only when info banner runs you can get Information with BLUE and YELLOW keys.

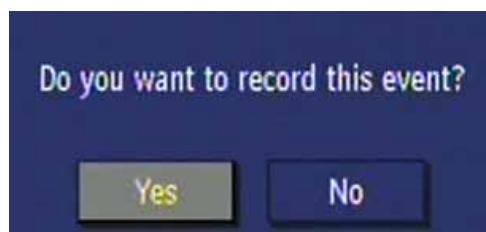


The starting time for EPG is the current time. You can see the event information for the next two hours. By pressing [UP], [DOWN] key, you can go to the next/previous hours. If you press SELECT when a next event is highlighted, a reminder is set for the highlighted program and a clock appears on the 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.



HOW TO RECORD USING EPG

One of the special features of the unit is; you can set a reminder to record in Now&Next mode and in 7-Day EPG mode. In Now&Next mode you can only record when you choose Next mode. A reminder is set from the Electronic Programme Guide screen. Press the [GUIDE] key to display the EPG screen. Press [SELECT] when a programme you want to watch is highlighted and the reminder icon is displayed against that programme's name. A pop-up message appears on the screen:



If you want to record that programme, highlight "Yes", otherwise highlight "No" then Press [SELECT]. If the record option is selected, then a dialog is displayed to specify the recording quality.

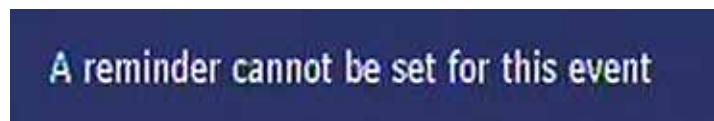


There are four levels of the recording quality: best, high, medium and basic. User can navigate among these options by [UP] and [DOWN] keys. To select a recording quality, press [SELECT] button when the desired quality option is highlighted. If [MENU] key is pressed, the dialog will be closed without specifying a recording quality. In this case, the record timer will not be set. When a previously set timer expires, FreeView tunes to the channel for which the timer is set. Remember the better the quality the less disc space will be available for the recording. Specify the recording quality with the [UP] / [DOWN] keys. Press the Title/Guide to escape the timer menu. Press the Standby button on the remote to set the recorder to its power off / standby mode.

After you have chosen the quality of recording, insert a disc in your unit.



When you are setting reminder for a programme, if the time of the programme is in the past or there is another reminder that starts at the same time, a warning message will be displayed and the reminder will not be set. Also, if you try to set a reminder to record on a programme whose time is in the past or coincides with another selected programme or , a warning message will be displayed and the reminder will not be set.



You can exit the EPG screen in the normal way - pressing [GUIDE], [MENU] or [EXIT]. Later, shortly before the programme is due to start, the receiver will display a reminder on the screen over the picture of the channel being viewed. Use the [LEFT] or [RIGHT] keys to highlight the YES or NO buttons as appropriate and press [SELECT]. If you select the YES button, the receiver switches over to the reminder channel.

NOTE: For further Information regarding "Recording" see also the titles "Manual Recording" and "Programming a Recorder (Timer).

USING THE MENU

Press SETUP key on the remote control, a menu will be displayed. Menu displayed on the TV is as follows:



The functional definitions of the menu items are defined below.

WATCH TV

When you select this option, you will be able to watch channels stored by the FreeView digital tuner. By means of this feature the unit can switch to recent (watched) mode.



PLAY/EDIT DISC

In this option you may play, edit titles stored in a disc or you may edit your disc also (erase, rename, finalize, protect).



When you select Play/Edit Titles option, title menu of DVD +R/RW is displayed. If you go on a title and press 'Display' button, editing menu appears on the screen.

Play can be used to play any type of discs.



Play title : Plays the current title.

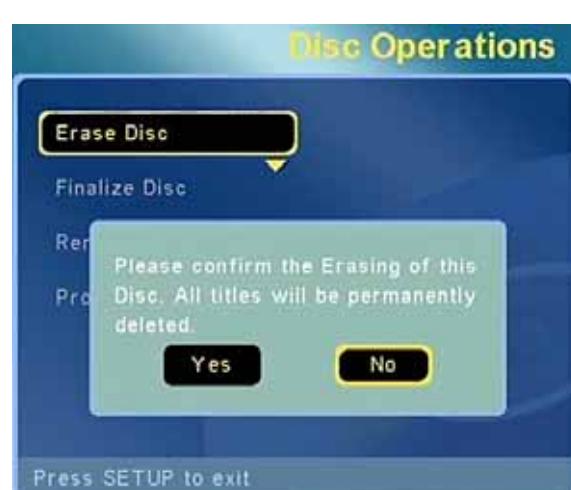
Title Delete : Title will be deleted from disc. If there are other titles after the deleted one, you will not be able to use this free space for recording.

Title Rename : You can rename the title using the keyboard on screen.

Cancel : The pop up menu will disappear.



Edit Disc option will be enabled only for DVD +R/RW discs. You need to stop playback and you can enable this item in monitor mode. In DVD+R disc "TITLE RENAME" should be done before "FINALIZE DISC".





RECORD PROGRAM

In Record program , you may set the timer for recorder.



RECORD SHOW

Press [SELECT] to activate “Record Show”. You can make the general settings of your recordings in this menu, these are:

1. Record Time	4. Channel
2. Frequency	5. Quality
3. Input Source	6. Title

In “Record Show” menu you can set the start/end times and the date of the recording. Firstly set your record time by pressing [SELECT].



In “**Frequency**” via [SELECT] button adjust the frequency of your recordings.



You can set timer for any of the “**Input Source**”: FreeView input, scart input, front panel composite input and front panel S-video input. If you select the FreeView input you will also need to set the program number.



Channel number setting is enabled when in “Input Source” FreeView is selected.



Set the “Quality” level of the recording:



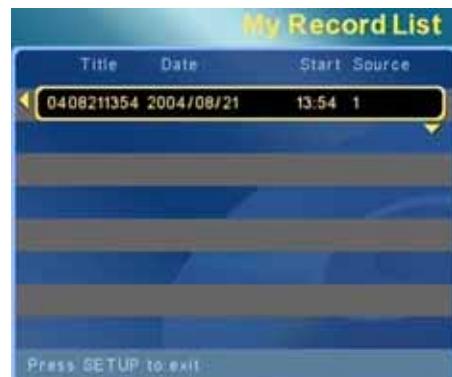
Give a title to your recordings:



To activate the changes made, press “DONE”.

MY RECORD LIST

In My Record List, you may edit or delete by pressing [SELECT] key the stored record list. You can see the title, date and source of the timer in this list. If your source is FreeView input, you will see the program number in the source section.



* You can also set timer from the EPG in Freeview

* Timer set from EPG menu will be displayed in My Record List.

* You can delete via SELECT button the timer set from EPG menu using My Record List

SETUP MENU

When you select Setup Menu on the Main Menu, a list of options appears on the screen. Move the highlight to the desired option and with [SELECT] key activate each item. Some settings interact with other settings. What you choose in one menu can affect how other selections work. If a selection is "greyed out", this means that the selection interacts with one or more other selections that are set in such a way to render the greyed out selection inoperable. Setup menu item will only be active when your system is not in Playback mode. With [LEFT] button you can exit from the menus.



RECORDING SETUP



RECORDING QUALITY

Best	: Extreme Play (highest quality) (1 hour recording)
High	: Standard Play (high quality)(2 hour recording)
Medium	: Long Play (medium quality)(4 hour recording)
Basic	: Extended play (lowest quality)(6 hour recording)



Refer to following recording parameters:

Quality	Bitrate	Resolution	Recording Time
Best	8Mbps	720x576 @ 25fps, MPEG2	1 Hour (approximate)
High	4Mbps	720x576 @ 25fps, MPEG2	2 Hour (approximate)
Medium	2Mbps	352x576 @ 25fps, MPEG2	4 Hour (approximate)
Basic	1,3Mbps	352x288 @ 25fps, MPEG1	6 Hour (approximate)

AUTO CHAPTER

You can select different chapter insertion periods or cancel Auto Chapter function. 4 periods exist: 4,10,20,30 minutes. If this feature is not “OFF”, title will be automatically divided into chapters during recording. The selected option on this menu determines the period of chapters.



DVD CONTROL



ANGLE MARK

To activate Angle Mark option press button [SELECT] when DVD Control menu is highlighted.

On : Displays a symbol to let you know when different camera angle information is available on a DVD.
Off : You are not informed of a different camera angle information.



GENERAL

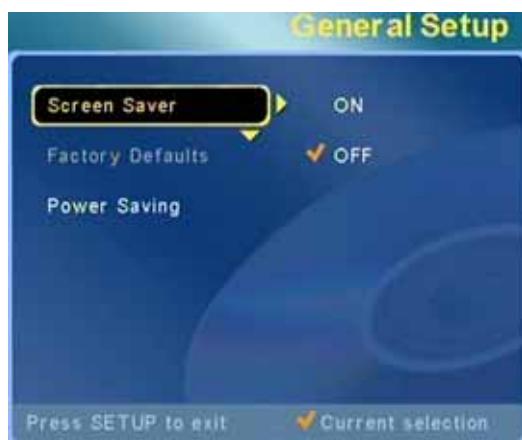


SCREEN SAVER

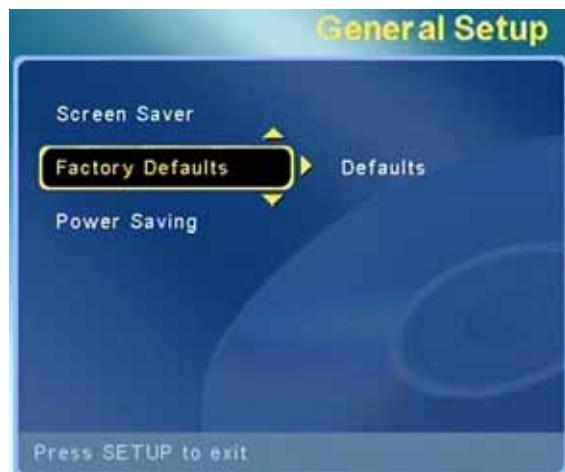
To activate the Screensaver press [SELECT] button.

On : Screen Saver turned on

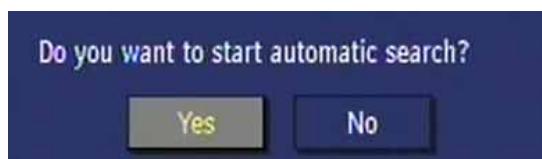
Off : Screen Saver turned off



FACTORY DEFAULTS



When you choose Factory Defaults option, after resetting all your Setup options back to factory settings, the device will switch to standby mode automatically. When the standby button is pressed to switch the recorder on, first time installation starts. System will switch to FreeView mode and the following message box will appear.



Using the [LEFT] or [RIGHT] keys on the remote control, make sure that the YES button is highlighted and press the [SELECT] key 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.



When the search is finished, the first channel of the channel list and the information banner is displayed you can now watch digital terrestrial television, selecting the channel you require as described in the next section.

If no channels are found during program search, you will be prompted to set the clock. If any channel is found, system will adjust the time automatically from the broadcast.

NOTE: You can not do factory defaults if any disc is in unit.

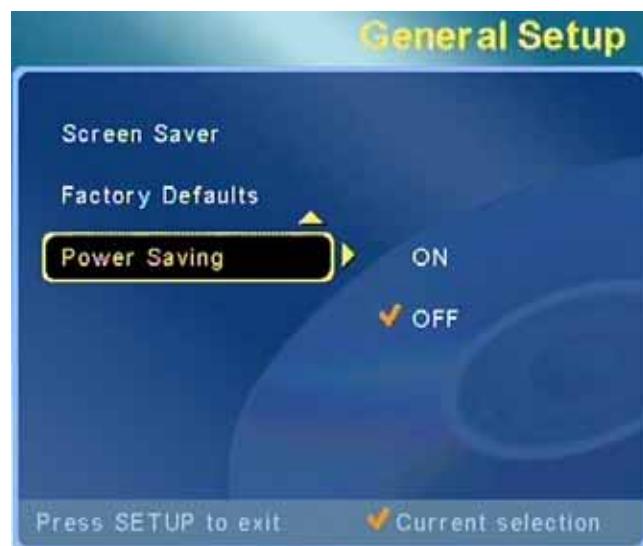
POWER SAVING

There are two states to choose:

ON : If you want to save power, you should choose this option. In this mode display is turned off in standby mode.

OFF : Time is displayed on display in standby mode.

If you want to save power, you should choose this option. In this mode, display is turned off and scart copy mode will not be active in standby mode.



VIDEO SETUP

To activate Video setup press [SELECT] button when Video is highlighted..



TV DISPLAY

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

Normal/PS : Display 16:9 source on normal 4:3 aspect ratio TV display as pan and scan if available on DVD (PS).
Normal/LB : Display 16:9 source on normal 4:3 TV display as letter box (LB).
Wide : Display 16:9 source on special 16:9 wide screen TV



TV TYPE

Multi. System : Select this option if your TV supports both NTSC and PAL.

NTSC : Select this option if your TV supports only NTSC.

PAL : Select this option if your TV supports only PAL.



VIDEO OUTPUT

S-video : Set output to S-video format.

RGB : Set output to RGB video (suitable also for a projector or computer monitor).



SPEAKER SETUP



DOWNMIX

Downmix means mixing 5.1 channels down to two channels. When Downmix is off you will see all the possible settings for 5.1 speaker systems. A 5.1 Channel amplifier / home theatre system will need to be purchased to hear the 5.1CH audio. Set these options to agree with the speakers installed in your home entertainment system.

Lt/Rt	: Method of down mixing from 5.1 channel to 2 channel, which is well suited as input to an external DolbyPro Logic Decoder (2 channel to 4 channel expansion)
Stereo	: Converts 5.1 channel information to stereo.
Off	: Downmix will be off and 5.1 channel outputs will be active. Please refer to the speaker settings to adjust your speakers.

NOTE: Recordings made will always be 2 channel and not 5.1 channel.



CENTER

On : Turn on center speaker.
Off : Turn off center speaker.



REAR

On : Turn on Rear Speakers.
Off : Turn off Rear Speakers.



SUBWOOFER

On : Turn on Subwoofer.
Off : Turn off Subwoofer.



CENTER DELAY

Increasing or decreasing the delay setting should be done according to the center speaker and the listener.



REAR DELAY

Increasing or decreasing the delay setting should be done according to the rear speakers and the listener.



SPEAKER SETUP-SPEAKER TEST

On : Plays a single tone in step-wise fashion at each of the speakers in the clockwise direction.
Off : Test-Tone feature is not enabled.



AUDIO

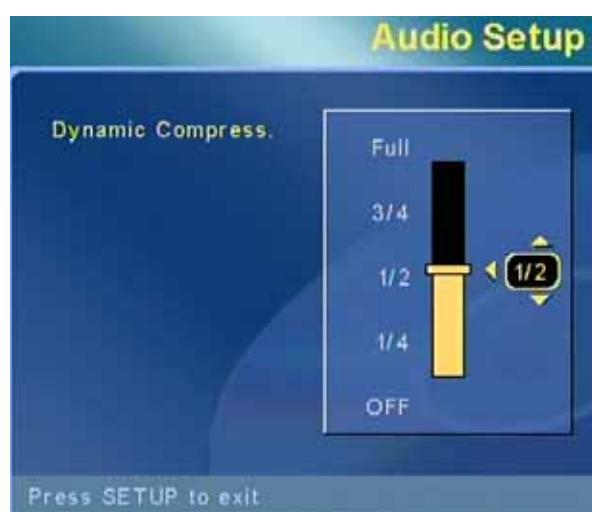


DYNAMIC COMPRESSION

Full : The range between loudest and softest is compressed to the maximum.
Off : There is no compression.

This control is useful to turn down the level of loud passages (explosions, car crashes and the like), while at the same time keeping soft passages loud enough to clearly hear them. The setting is expressed as a fraction of the full dynamic range.

You can adjust the level off the dynamic range compression to different levels between off and full.



PLAYBACK

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 CDs, 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.

BASIC PLAYBACK

There are different techniques for playing discs. The first instructions in this chapter apply to the simplest methods for playback. These instructions are then extended to include more advanced playback features and how to use them.

For MP3, JPEG playback features, please refer to SMARTNAVI section.

PREPARING FOR PLAYBACK

1. To playback a disc, turn on the TV and select the DVD Recorder output connected to the TV.
2. 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.
3. Set options in the setup menus that are appropriate for your speaker arrangement and speaker configuration, for the video standard (PAL or NTSC) of your television monitor, and for the video picture aspect ratio.
4. DVDs are encoded for six different regions. Check that the region designated on the DVD packaging conforms to your region. Region encoding setting cannot be altered through Setup Menu.

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 (if you set angle mark feature “ON” from setup menu) when multiple angles are available. Press the ANGLE button to make a selection.

BASIC PLAYBACK (DVD,VCD,AUDIO CD)

Some playback operations and interactivity features of DVD and VCD 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 or VCD. The simplest way to playback a disc is to follow this procedure.

1. Press Open/Close button on remote control or front panel.
2. Place disc on the disc tray.
3. Press Play on remote control or front panel.

The player starts to play the first section recorded on the disc and continues sequentially until the end is reached. 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.

STARTING PLAYBACK FROM ON SCREEN MENU (DVD-VCD)

Some DVDs or VCDs come up with a disc menu. You can choose to start playback from beginning or you can select a specific scene to play if provided in this menu.

STOPPING PLAYBACK (DVD,VCD,AUDIO CD)

1. Press "STOP" button twice.
2. Press "PLAY / PAUSE" to start playing from the beginning.
 - If you press stop button twice, unit will switch to monitoring state. If you press Play key, player will switch to disc playback state and start to play the disc from the beginning.
 - For DVD +R/RW, there is no pre-stop state. That's why pressing stop key only once will stop the playback and the unit will switch to title menu.

PAUSING PLAYBACK (DVD,VCD,AUDIO CD)

1. Press the "PLAY/PAUSE" 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. For audio discs the sound is muted.

2. To resume playback, press the "PLAY/PAUSE" button.

REMOVING A DISC

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

PLAYING AT X2, X4, X6 OR X8 THE NORMAL SPEED (DVD,VCD,AUDIO CD)

You play back a disc at x2, x4, x6, or x8 the normal speed.

1. Press "SEARCH \blacktriangleright " or "SEARCH \blacktriangleleft " buttons during playback.
2. Press the same buttons to change the speed.
3. To resume the normal playback press "PLAY/ PAUSE" or select button.

PLAYING FORWARDS AND BACKWARDS IN SLOW-MOTION (DVD-VCD)

Slow-motion playback is good for searching or just observing a small section of the disc.

1. During normal playback, press "PLAY/PAUSE"
2. Then press "SEARCH \blacktriangleright " for forward slow motion "SEARCH \blacktriangleleft " for backward slow motion.
3. Press the same buttons to change the speed.
4. To resume the normal playback press "PLAY / PAUSE" or select button.

Backward slow-motion playback is possible only at DVD.

RESUMING PLAYBACK FROM THE SAME LOCATION (DVD,VCD,AUDIO CD)

1. During normal playback, press STOP.

The screen displays a stationary logo or if the screen saver is set to on, the screen saver is displayed after a timeout interval.

2. To resume playback, press play/pause again.

For DVD +R/RW, there is no pre-stop state. That's why pressing stop key only once will stop the playback and the unit will switch to title menu.

LOCATING A SPECIFIC TITLE OR CHAPTER, USING THE “MENU” BUTTON (DVD)

To play a specific chapter from a given title on a DVD you can use the “MENU” 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” .

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 direction buttons to navigate the menus.

2. Position the screen highlight over your selection and press select. Alternatively, you can press the number of the desired chapter.

MOVING TO A SPECIFIC TITLE OR CHAPTER (DVD)

Press “Search Mode” button and enter the number of the desired chapter. To change title number, press left arrow button and then enter the number.

MOVING TO A SPECIFIC ELAPSED TIME (DVD,VCD,AUDIO CD)

At DVD to go directly to any point of the currently playing title, press “SEARCH MODE” button twice and then enter the time

At VCD or AUDIO CD, to go directly to any point of the currently playing track, press “SEARCH MODE” button and then enter time.

CHECKING ELAPSED TIME (DVD,VCD,AUDIO CD)

To determine how long a file has been playing, you can check the elapsed time by pressing DISPLAY. A counter appears in the upper right portion of the display. To clear the counter, press DISPLAY again.

PLAYING REPEATEDLY (DVD,VCD,AUDIO CD)

Repeat play modes are activated by pressing REPEAT and vary with media.

1. Here are the steps for DVD

- a. While playing a chapter, press Repeat.
- b. The message CHAPTER REPEAT ON appears.
- c. To repeat the entire title, press Repeat again (you see TITLE REPEAT ON).
- d. Press Repeat again to resume normal playback (you see the message REPEAT OFF)

2. Here are the steps for VCD and Audio CD.

- a. Play the track you want to repeat.
- b. Press Repeat. You see a message: REPEAT ONE.
- c. Press Repeat once more to repeat all the tracks (REPEAT-ALL appears)
- d. Press Repeat one more time to turn repeat mode off (REPEAT OFF appears).

REPEATING A SPECIFIC SEGMENT A TO B (DVD,VCD,AUDIO CD)

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

1. As the disc plays, press the A-B key.

You see a message: A TO B REPEAT SET A

2. At the point you want to end the segment press the A-B key again
3. You see a second message: A TO B REPEAT SET B. There after the segment cycles between the two points.
4. To end repeat play of the segment you designated, press the A-B key.X

ZOOMING A PICTURE AND SHIFTING THE VIEW POINT (DVD-VCD)

To zoom a picture x1.5, x2, or x3:

1. During normal or slow motion play, press Zoom.

The picture is magnified 1.5 times. To increase magnification press Zoom again (x2) and again (x3).

2. Pressing Zoom again turns zoom off.
3. While zoomed, you can change the viewpoint by pressing the direction buttons.

VIEWING JPEG PICTURES

If you save JPEG pictures to a CD you can view them on a TV.

1. Open the disc tray, insert the JPEG disc and close the tray (Open/Close).
2. You will see a Smart Navi menu. Using arrow keys you can navigate on this menu. You can enter to a folder by pressing select button on that folder. Pressing select button on a file will display selected picture full screen. Slideshow starts automatically. To return back to the menu, press stop button.

PROGRAM FUNCTION (MP3 - AUDIO CD)

Press Play Mode button in stop mode. Program OSD is displayed.

Press numeric keys to select files in current directory. For Mp3, you can also use Up/Down buttons to navigate on Smart Navi and press Select button to add the highlighted track to the program list.

Press Play Mode button to finish program.

Press Select button to start program playback. Tracks in the program will be played sequentially.

To exit from program mode press Play Mode button twice in STOP mode.

The program is cancelled when:

- The disc tray is opened or closed
- The unit is turned to standby mode

SMARTNAVI

Through SMARTNAVI menu , you can see the directory structure of MP3, JPEG,MPEG files in a disc.



Basic Playback

1. Press **STANDBY**.
2. Press **OPEN/CLOSE (▲)** to open the disc tray.
3. Place a CD-R / CD-RW disc onto the tray.

Hold the disc without touching either of its surfaces, position it with the printed title side facing up, align it with the guides, and place it in its proper position.

4. Press **OPEN/CLOSE (▲)** to close the disc tray.

DISC LOADING message appears on screen. Please wait for a moment.

SMARTNAVI appears. Directories and files are listed on the left part.

5. Press **UP (▲) / DOWN (▼)** to select file to be played.

In the stop mode you can navigate in all directories. If an MP3 track is playing, only the current directory can be used for navigation.

6. Press **SELECT** on a file to play.

If a file is focused on the left part, the preview of the item is displayed. If a folder is focused on the left part, the total number of files in that directory is displayed.

MP3 File :

Selected MP3 file starts to play.

Elapsed or Remaining Time is displayed according to Time Mode.

JPEG File :

Selected JPEG is displayed in full screen.

Slide Show starts automatically.

Pause

Press **PLAY/PAUSE** once during playback.

Playback suspends, PAUSE message appears on screen.

To return to normal playback:

Press **PLAY/PAUSE** again.

Stopping Play

Press **STOP (■)**.

Playback stops, STOP message appears on screen for a while.

Fast Forward / Reverse

For MP3 File :

Press **SLOW / SEARCH** **◀** / **▶** during playback to decrease/increase playback speed. For MP3 and MPEG you can play the track at 2x,4x,6x or 8x times the normal speed.

To return to normal playback:

Press **PLAY/PAUSE**.

NOTE: No sound will be heard during fast forward or reverse.

Skip Forward / Backward

Press **SKIP/ FRAME** **◀** or **▶** during playback.

Next playable file in the current directory will be played.

Image Transformation

For JPEG File :

Press **PLAY/PAUSE** to start slide show.

There are four modes for transformation:

- Invert
- Mirror
- Left
- Right

These operations are allowed only when a picture is being displayed normally, and will be cancelled automatically when a new picture is displayed. The arrow buttons are used to select the different transformation modes.

Press **UP (▲)** to invert/normal.

Press **DOWN (▼)** to mirror.

Press **LEFT (◀)** to turn left.

Press **RIGHT (▶)** to turn right.

Zoom

For JPEG File:

Press **PLAY/PAUSE** to start slide show.

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

Press **ZOOM** to turn on/off this function.

When this mode is on, any picture will be displayed at the last ratio selected by the user.

A message will indicate the current ratio on screen.

If zoom mode is on,

Press **SEARCH** to control the ratio of zoom in/out.

Press UP (▲) / DOWN (▼) / LEFT (◀) / RIGHT (▶) to pan & scan the picture.

NOTE: During ZOOM function, image transformation is disabled.

Repeat Modes

Press **REPEAT** to change current repeat mode.

Repeat mode is displayed for a while in slide show mode.

In SMARTNAVI it is displayed at the bottom.

“Repeat one”, “Folder Repeat”, “Disc”, “Single” and “Folder” repeat modes are available.

Displaying the Time Information

Press **DISPLAY** to change displayed time mode.

Elapsed / Remaining time is displayed on screen.

Program Function (For MP3 and JPEG)

Press **PLAY MODE** to select program mode in stop mode.

PROGRAM Message appears.

Press **number buttons** to select files in the current directory.

Alternatively, you can use **UP (▲) / DOWN (▼)** buttons and then press **SELECT** to add selected file into the program list.

PROGRAM Message appears with the current file index.

Press **STOP** to finish program.

Press **PLAY/PAUSE** to start program.

PLAY Message appears.

Files in the program list are played sequentially.

NOTE:

- You can use trick mode buttons, skip prev/next files, and so on.
- The program remains even after the Program Play ends.

The program is cancelled when:

- The disc tray is opened or closed
- The unit is turned off
- In each directory change

MANUAL RECORDING

GENERAL INFORMATION

Which discs can I use for recording?

With this DVD recorder, you can record on two types of DVD:

DVD+RW

This disc can be recorded and erased multiple times

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 using this disc.

Before you start recording, be sure there is one of these discs in tray.

RECORDING SETUP

From the setup menu choose Setup Menu/Recording Setup to set up the recording quality and autochaptering periods. Recording qualities that may be chosen are: BASIC, MEDIUM, HIGH, BEST. Auto Chapter durations are 4, 10, 20, 30 min, it can be deactivated also by choosing OFF.

The setting will be kept even the device is unplugged. If you do not want to change settings before recording, you don't need to enter this menu.

SELECTING SOURCE

There are four video input source modes. These are Scart CVBS in, Composite video in, S-Video In, FreeView In these sources are reached via VIDEO SOURCE button.. Please checkout your setup before starting a record process and assemble the correct configurations for starting record process.

When the unit is turned on, the recorder switches to monitor mode and the latest program that has been watched before turning the unit off will be active.

If the unit is switched on due to a timer recording event, unit will tune to the programmed channel.

HOW TO INITIATE AND STOP RECORDING PROCESS?

If you want to change recording quality, you can use REC MODE button on remote control. Each press will change recording quality. Now you are ready to record. Then press record key on your remote control or record button from the front panel of device. Recording process will start. Once display key is pressed while recording, time info will disappear. In order to display record time info press display key again. To stop the recording process, press the stop button. After finishing your recording process, the system will remain in monitor mode. This title menu includes all of the recordings on your disc in *thumbnail form*.

In the thumbnail menu, the first frame of each recording will be displayed in small pictures.

If you press display button on any of these recordings, a menu for editing the title will be displayed.

HOW TO WATCH ANOTHER CHANNEL ON TV DURING RECORDING?

This feature is valid only for scart connection to tv. Press TV/DVD button on remote control. This will disable the scart output of the unit. By using the program up/down or numerical buttons of your TV remote control, you can watch other channels. In order to enable the scart output of the DVD Recorder, press TV/DVD button again.

INSERTING CHAPTER

Insert Chapter button on the remote control divides current chapter into two chapters from the moment you press this button. You can use this function during the playback of a recorded title. This feature is supported only in DVD+RW discs.

PAUSE RECORDING

You can pause recording by pressing play/pause key during recording. To resume recording, press play/pause key again.

PROGRAMMING A RECORDING (TIMER)

GENERAL INFORMATION

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 or source and begin recording at the selected time.

To make a programmed recording, your DVD recorder needs to know:

- the date you want to make the recording
- the input source you want to make the recording (FreeView, scart-in, composite-in, s-video-in)
- the program number of the TV channel, if your input source is FreeView.
- the start and stop time of the recording
- the recording mode (recording quality)

You can also set timer for recording by electronic programme guide in FreeView mode.

TO SET A RECORDER OR REMINDER BY EPG (NOW/ NEXT)

1. During watching any FreeView channel, press TITLE/GUIDE button to open EPG (Now / Next) page.
2. If you want to set a recorder or reminder for next event, press Right (>) button to highlight and press SELECT button to activate it.
3. The display will ask to choose about **recording** . If you select No, it sets only a reminder. You may see clock icon near event name that u want to be reminded. (Reminder option only works while we are watching TV , it is disabled at standby or any other mode).
4. If you select YES, it asks for quality of recording that you want to set . After selecting one of them , it puts a clock icon near event name and turns back to EPG (Now/Next) page. Also if u want to verify timer record, you may see event in My Record List page.
5. To close EPG page and turn back monitor mode, press TITLE/GUIDE button.

TO SET A RECORD OR REMINDER BY EPG (7 DAY)

1. When watching any Freeview channels, press TITLE/GUIDE button then MENU button to open EPG (7 Day) page.
2. If you want to set a record or reminder for any event, use navigation and colored buttons to highlight and press SELECT button to activate it. (Use DISP/INFO button for more help)
3. The display will request if you want to record this event. If you select No, it sets only a reminder. You may see clock icon near event name that you want to be reminded. (Reminder option only works whilst watching the TV, it is disabled at standby or any other mode).
4. If you select YES, it asks for quality of recording that you want to set. After selecting one of them , it puts a clock icon near event name and turns back to EPG (7 Day) page. Also if you want to verify timer record, you may see event in My Record List page.
5. Other record events may be selected by repeating points 2,3 and 4 above. Note that if a time conflict occurs then a message will show that the second record event cannot be used as the first event is still recording.
6. To complete the record time event turn off the recorder by pressing the Power / 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: Very important that there is sufficient disc space to cover the recorded time.

HOW TO CREATE RECORDING ITEM

1. Press setup menu
2. Choose record program
3. Choose record show
4. Set the recording time(start and stop time for recording process)
5. Set the input source you want to make the recording
6. Set which channel to record if your input source is FreeView.
7. Set the quality of recording
8. If you wish, you can change title name

It is possible to stop timer recording manually by pressing STOP key. After recording is stopped manually, the system switches to monitor mode.

As a shortcut, you can press Timer button on the remote control, instead of performing first 3 steps above. The timer record list will be displayed. You may edit or delete existing timers or add new timer records using this menu.

Please check your disc before timer recording starts to avoid potential recording errors. If any error occurs, your timer recording may be cancelled.

There should be at least two minutes between previous and next timer recordings

HOW TO CHECK, CHANGE OR DELETE A PROGRAMMED RECORDING (TIMER)

1. Press set up menu
2. Choose record program
3. Choose my record list item
4. In order to change any parameter of the record item, choose the related record item, a pop-up menu will appear, choose Edit from here in order to change any field.
5. To delete the record item, repeat the steps 2,3 and 4. Then choose the related item. A pop-up menu will appear. Choose "delete" from here.

If you press SELECT key on an empty line, the record show menu will be displayed. You can set new timer records using this menu.

Timers set from electronic programme guide can not be edited from my record list menu.

OTR (ONE TOUCH RECORDING)

If RECORD key is pressed while recording, it starts the sleep timer according to the record quality. The timer list is circular so after the maximum recording time, it returns back to the beginning. OTR time periods are followed as:

XP: 30 min, 60 min

SP: 30 min, 60 min, 90 min, 120 min

LP : 30 min, 60 min, 90 min, 120 min, 150 min, 180 min, 210 min, 240 min

EP : 30 min, 60 min, 90 min, 120 min, 150 min, 180 min, 210 min, 240 min, 270 min, 300 min, 330 min, 360 min

LIMITATIONS AND SOME OTHER FEATURES

RECORDER FEATURES AND LIMITATIONS

1. This DVD recorder can not continue recording to any disc recorded by another machine.
2. In one disc, you can record a maximum 49 titles.
3. There is no time search on a pre-recorded disc, so use auto chaptering as much as possible.
4. Cannot overwrite the existing titles. Please delete first to empty the space (Only for DVD+RW).
5. You cannot record PAL/NTSC in the same disc.
6. You must finalize +R to play on DVD player. If you don't do it, you can only play it with the device you recorded it.
7. Maximum recording time depends on the record quality option you choose.

APPENDIX A - TROUBLESHOOTING (FOR DVB)

If you experience problems with the FreeView receiver or its installation, in the first instance please read carefully the relevant sections of this User Guide and this Troubleshooting section.

Problem	Possible cause	What to do
No signal found	Aerial is disconnected Aerial is damaged/misaligned Out of digital signal area	Check aerial lead Check aerial Check with dealer
No picture or sound	Tuned to digital teletext channel	Retune to another channel
No response 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		Please look at last page.
Forgotten menu lock code		
The remote will not operate FreeView	(1) The batteries in your remote control need replacing (2) There is an obstruction blocking the signal path between the remote control and the receiver	(1) Replace the batteries (2) Check that there is nothing in the way of the path between the remote control and the receiver
After moving your Recorder 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.

TROUBLESHOOTING (FOR DVD)

Problem : Record button does not start recording

Checks:

1. Make sure there is a recordable (DVD+RW or DVD+R) disc inside the player.
2. If you wish to record from FreeView input, check the program table in FreeView mode to see the available channels. You may need to do an automatic search again to record, if the automatic search after installation has failed to find channels.
3. If you wish to record from an input source, make sure that the record source is active and sending signals.
4. To record from a DVD player the dvd should not be copy protected.
5. 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. Titles cannot be overwritten.

Problem : "No input signal" message is received.

Checks:

1. Make sure the aerial is connected to FreeView input and there is TV broadcast on some channels.
2. If you are using scart cvbs,svideo or composite video inputs,make sure the record source is properly connected and switched on.

Problem : Timer recording does not work

Checks:

1. Make sure that the system time and record start time are set correctly.
Time will be displayed when the recorder switches to standby in power saving off mode.
2. You will not be able to record, if the program number found during automatic search does not contain an active channel.

Problem: Can not set a recorder / reminder by EPG

Checks:

1. Make sure the event that wanted to record/remind not passed.
2. Make sure the event that wanted to record/remind not conflicted with another event.

Problem: Titles are not displayed when play edit titles button is pressed

Check:

Make sure there is a disc inside the recorder and contains at least one recorded title.

Problem. Edit disc option is disabled

Check:

Make sure that the recorder is in "full stop mode".

Problem: The picture colors are not ok

Check:

Check the video output mode and select the appropriate mode

Problem: There are no chapters in the recorded title

Check:

Make sure that the "Autochapter insertion" feature is turned on.

Problem: The picture is distorted

Check:

Make sure that the scart cable to TV is connected firmly.

Problem: There is no audio from speakers

Check:

Make sure the appropriate sound mode of the player and the amplifier mode are compatible.,

APPENDIX B - SPECIFICATION (FOR DVB)

SYSTEM

Processor	STI5518 32bit @ 81 MHz
Flash memory	2Mbyte
SDRAM	16Mbyte
EEPROM	32Kbit
MHEG-5 engine	compliant with ISO/IEC 13522-5 and UK Engine Profile1
Object carousel support	compliant with ISO/IEC 135818-6 and UK DTT Profile

RECEPTION

Frequency range	474-858MHz
Signal level	-82dBm
Transmission standards	FreeView, MPEG-2
Demodulation	COFDM with 2K/8K FFT mode
FEC	all DVB modes
Video	MP@ML, PAL, 4:3/16:9
Audio	MPEG Layer I & II 32/44.148kHz

CONNECTIONS

UHF aerial input	
UHF aerial loop through	

APPENDIX B -SPECIFICATIONS (FOR DVD)

Power Requirements		230 - 240 Volt ~ 50 Hz (Auto Adjustable) 30 Watt (Power ON) max.
Supported Recording Media	DVD	DVD+R DVD+RW
Supported Playback Media	DVD	DVD-Video DVD-R DVD-RW DVD+R DVD+RW
	CD	CD-Audio CD-R CD-RW VCD SVCD Kodak Picture CD MP3 JPEG MPEG
Video	Video Type	MPEG-2 Video Standard Decoding (MPEG-1 supported) Full-Screen Video Display of 720 x 576 (PAL) & 720 x 480 (NTSC) pixel 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
		Cinch Socket Composite video in S-Video in (Mini DIN)
		Via SCART Aerial in
		Analog Video (With using 5X 10-bits/ 54MHz video DACs) CVBS PAL / NTSC (Negative synchronised), 1Vpp @ 75 ohm (loaded)
	Video Output	Y Output : 1Vpp @ 75 ohm (loaded) C Output : 286 mVpp @ 75 ohm (loaded) (NTSC)
		300 mVpp @ 75 ohm (loaded) (PAL)
	Audio Type	Dolby Digital Decoding LPCM
	Audio Input	Front Cinch Socket Stereo Analog L/R Rear SCART (Analog L/R)
Audio	Audio Output	24 Bit / 96 kHz DAC 6 RCA jack outputs (Left/Right/Center/Subwoofer/Rear Left/Rear Right) Left / Right audio outputs of Full Eurocart
		Output / Channel 2 Vrms (0 dB fs, 1kHz)
	Digital Audio Output	S/PDIF (AC-3 encoded 5.1 channel digital audio) Optical and/or Coaxial
TV	TV Broadcasting	PAL BG, DK, I / I' SECAM BG, DK, L / L'
		* Supported TV broadcast system may change according to your country.
	Receiving Channels	VHF (Band I/II) UHF (Band U) HYPERBAND
		Cable TV B/G : S01-S41 / S75-S79 D/K : S01-S41
	Number of Preset Channels	100
Dimensions (mm)		419 (W) x 75 (H) x 368 (D)
Weight (Device) (Kg)		4.806
Weight (Device+Case) (Kg)		5.816

DEFINITION OF TERMS

Angle

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

Chapter Number

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

DVD

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

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

Playback Control

This is recorded on a Video CD* (Version 2.0). The scenes or information to be viewed (or listened to) can be selected interactively with the TV monitor by looking at the menu shown on the TV monitor.

Subtitles

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

Time Number

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

Title Number

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

Track Number

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

Video CD*

This contains recordings of pictures and sound whose quality is on a par with that of videotape. This player also supports Video CDs* with playback control (Version 2.0).

Dolby Digital

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

Dolby Pro Logic

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

PCM

PCM stands for Pulse Code Modulation and is digital audio.

MPEG

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

Digital Video Broadcasting Terrestrial

MHEG:MHEG is an acronym for multimedia and Hyper media Expert group. MHEG standard is for interactive applications.

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

- Please read the user manual's MP3 playback section.
- 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.
- Some VCD discs may be incompatible.
- 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.

Cut this information box out and
keep in a safe place.

If You Forget The Password:

Press 3, 3, 0, 8.
Then please set your personal password.

