

# Goodmans X-PRO

Micro 1990 DVDF

Digital TV Radio &  
5.1 Channel DVD Micro System



**Instruction Manual**

# IMPORTANT SAFEGUARDS

## PRE FITTED MAINS PLUGS

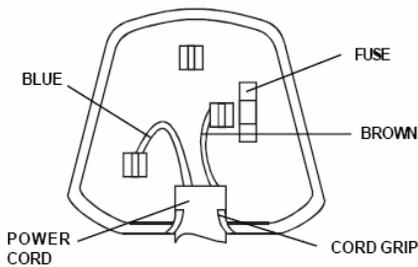
For your convenience a mains plug has been fitted to this appliance. For your safety please observe the following information.

1. Should the fuse in the plug fail remove the plug from the wall socket and replace the fuse with a 3 Amp ASTA approved to BS 1362 fuse.
2. Never use the plug without the fuse cover fitted. Replacement fuse covers are available from your dealer or most electrical retail outlets.
3. If the mains plug is cut off the cable, rewire the replacement plug in accordance with instruction give in this manual.
4. CAUTION: Under no circumstances should the discarded plug be inserted into the mains socket. To prevent a shock hazard carefully dispose of the discarded plug. Do not leave the plug lying around where children might see it.

**WARNING:** To prevent fire or shock hazard do not expose this unit to rain or moisture.

**CAUTION :** DANGEROUS VOLTAGES EXIST INSIDE THIS UNIT. DO NOT REMOVE COVER (OR BACK).

NO USER SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. DISCONNECT FROM MAINS SUPPLY WHEN NOT IN USE.



This wires in this mains lead are coloured in accordance with the following wiring codes:

Blue.....Neutral  
Brown.....Live

This wires in this mains lead must be connected to the terminals in the plug as follows:

Blue Wire.....N or Black  
Brown Wire.....L or Red

Only a 3 Amp fuse should be fitted in the plug or a 5 Amp fuse at the distribution board.

**WARNING:** UNDER NO CIRCUMSTANCES MUST THE LIVE OR NEUTRAL WIRES BE CONNECTED TO THE EARTH TERMINAL IN A 3- PIN MAINS PLUG.



This symbol means that this unit is double insulated. An earth connection is not required.

## DIRECTORY

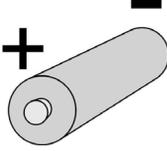
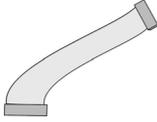
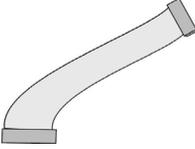
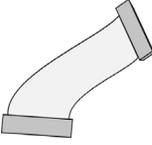
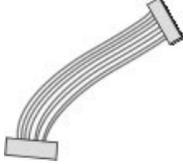
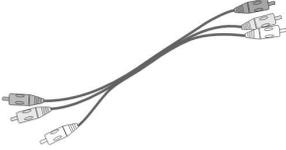
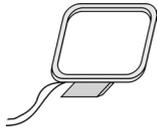
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# 1. Introduction

Thank you for purchasing this state of the art DVD MICRO system. This instruction manual is important to you. Please read it. In a short time it shows exactly how to connect, operate and adjust this unit for best performance. It can save you money as it shows simple things to do and check before you call for help and save the cost of unnecessary service or call out charge.

## 1.1 Pack Contents

 REMOTE CONTROLLER 1PC	 BATTERIES 2PCS	 14PIN IDE CONNECTION WIRE 1PC
 20PIN IDE CONNECTION WIRE 1PC	 30PIN IDE CONNECTION WIRE 1PC	 8PIN CONNECTION WIRE 1PC
 AV CONNECTION WIRE 1PC	 SCART WIRE 1PC	 MW AERIAL 1PC
 FM AERIAL 1PC	 SPEAKER CONNECTION WIRES 6PCS	 RF CABLE 1PC
 USER MANUAL 1PC		

# 1. Introduction

## 1.2 Disc Types

The following table shows the type of discs that can be used with this DVD MICRO system

Type of Disc	Diameter	Playback time	Data Format	Comments
DVD	12 cm	1 Layer: 120 min	DVD Format Disc: Compressed Digital Audio Compressed Digital Video (Moving picture)	None
		2 Layer: 240 min		
	8 cm	1 Layer: 80 min		
		2 Layer: 180 min		
SVCD	12 cm	45 min	MPEG2 Compressed Digital Audio Compressed Digital Video (Moving Picture)	None
VCD	12 cm	74 min	MPEG1 Compressed Digital Audio Compressed Digital Video (moving picture)	Includes: VCD2.0, VCD1.1, VCD1.0 and DVCD
	8 cm	20 min		
CD	12 cm	74 min	CD-DA: Digital Audio	None
	8 cm	20 min		
MP3/WMA	12 cm	Variable	Compressed Digital Audio	None
JPEG	12 cm	N/A	Picture CD	None

## 1.3 DVD Features

DVD discs offer many advantages over VHS tapes and VCD video discs, which include:

- Parental control: Discs with parental control can be restricted so that discs that are only suitable for the viewers can be viewed (Please note: DVD disc must have parental ratings recorded onto the disc for this to work).
- Multi-Language support: DVD discs may have recorded on them upto:
  - ♦ 8 different audio languages
  - ♦ 8 different subtitle languages
  - ♦ 6 different OSD (on screen display) languages
- Multiple angles for the same scene: Some DVD discs are recorded with scenes that are recorded from multiple angles. On these discs the user can press a button to cycle through the available angles. (Please note: This is disc dependant, not all DVD discs utilise this feature).

## 1.4 DVD region code

DVD players and discs are designed with region numbers, which dictate the region that the player is designed for use in. If the region number of the disc does not match that of the player the disc will not play. The region number for this DVD MICRO system is 2.

## 1.5 Glossary of Disc Terms

- Title (DVD)

The longest sections of a picture or a music piece on a DVD. For example on a movie DVD, the main feature movie would be one title. Each title recorded onto a disc is given a number to allow easy access. Often titles are divided into chapters (see below).

# 1. Introduction (cont)

- Chapter (DVD)

A chapter is normally a section of a title. For example, on a movie DVD the main feature may be recorded as a TITLE and this title may be split into several smaller sections called CHAPTERS to allow easy navigation to a particular point of a movie. On some DVD discs there may be no chapters recorded.

- Track (Video or audio CD)

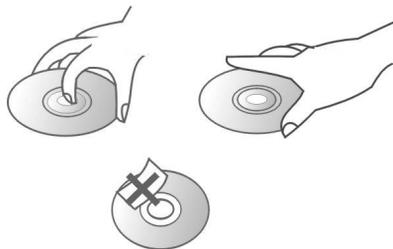
Video or audio CDs are split into individual sections each called a track. Each track is given a number, which allows easy access to a specific track.

## 1.6 Notes on discs

### *Disc handling precautions*

- To keep the disc surface clean, handle the disc by its edge. Do not touch the surface.
- Do not stick paper or tape on the disc.

If there is glue (or a similar substance) on the disc, remove the glue completely before using the disc.



- Do not expose the disc to direct sunlight or sources such as hot air ducts or leave it in a car parked in direct sunlight, as there can be considerable rise in temperature inside the car.
- After playing store the disc in its case.
- Do not write on the label side with a ballpoint pen or other writing utensils.
- Be careful not to drop or bend the disc

### *Disc cleaning precautions*

- Before playing, clean the disc with a cleaning cloth. Wipe the disc from the centre out. NEVER wipe the disc in a circular motion.



# 1. Introduction (cont)

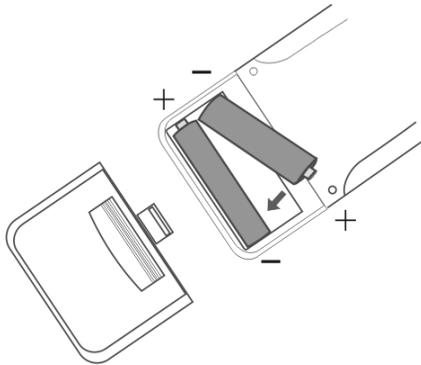
- Do not use solvents such as petrol based products, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.

## *Disc installation precautions*

- Do not install more than 1 disc on disc tray
- Do not place the disc on the tray up side down.
- Do not try to close the disc tray when the disc is not inserted properly.

## **1.7 Inserting Batteries into Remote Control**

Insert two AAA batteries into the remote control observing the polarity markings inside the remote control compartment.



### Notes:

- Do not mix old and new batteries
- Do not leave the remote in an extremely hot or humid place.
- Do not expose the remote sensor to direct sunlight or lighting apparatuses. Doing so may cause a malfunction.
- If the remote control is not to be used for a long time, remove the batteries to avoid the possible damage from battery leakage and corrosion.

# 2. Location of Controls

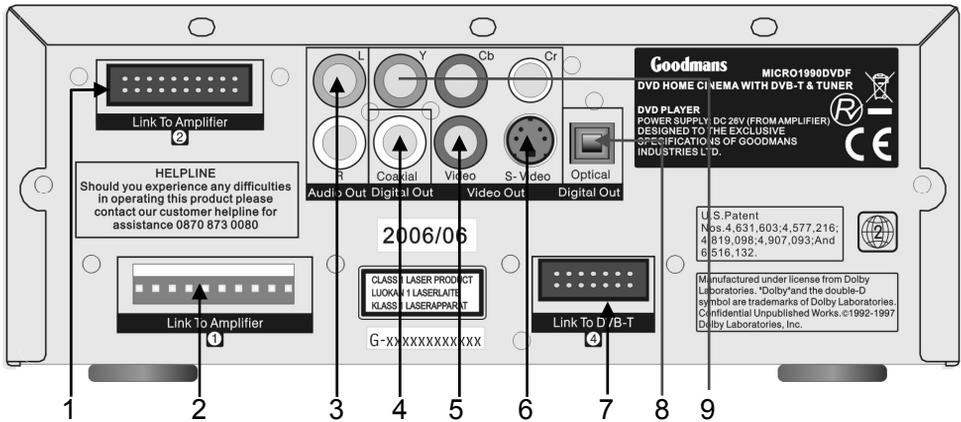
## 2.1 DVD Component

Front Panel:



- |                             |                          |
|-----------------------------|--------------------------|
| 1. DVD Screen dimmer switch | 6. Open/Close (▲) button |
| 2. Power indicator          | 7. Play (▶) button       |
| 3. Previous (◀◀) button     | 8. Pause (  ) button     |
| 4. Next (▶▶) button         | 9. Stop (■) button       |
| 5. DVD tray button          |                          |

Rear Panel

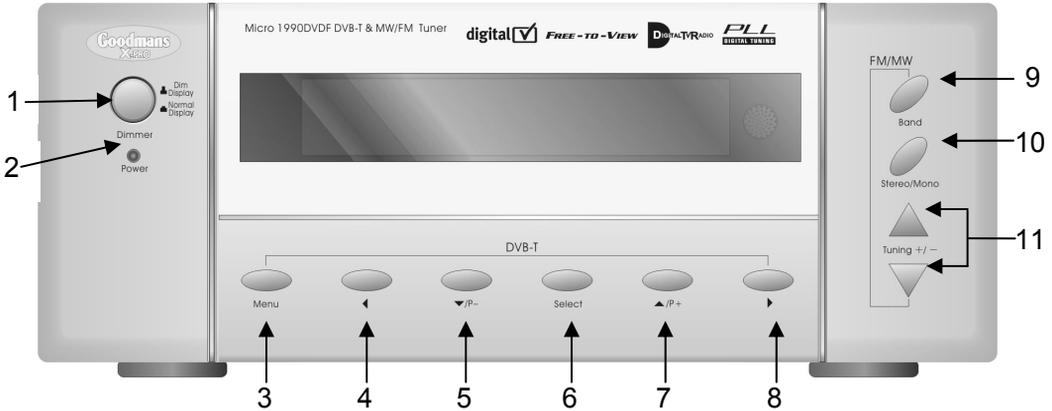


- |   |   |
|---|---|
| 1. Socket to connect to amplifier component | 6. S-Video output                       |
| 2. Socket to connect to amplifier component | 7. Socket to connect to DVB-T component |
| 3. Audio outputs (Left and Right)           | 8. Digital Optical Output               |
| 4. Digital Coaxial Output                   | 9. Y, Cb, Cr video outputs              |
| 5. Composite Video Output Mains Cable       |   |

# 2. Location of Controls (cont)

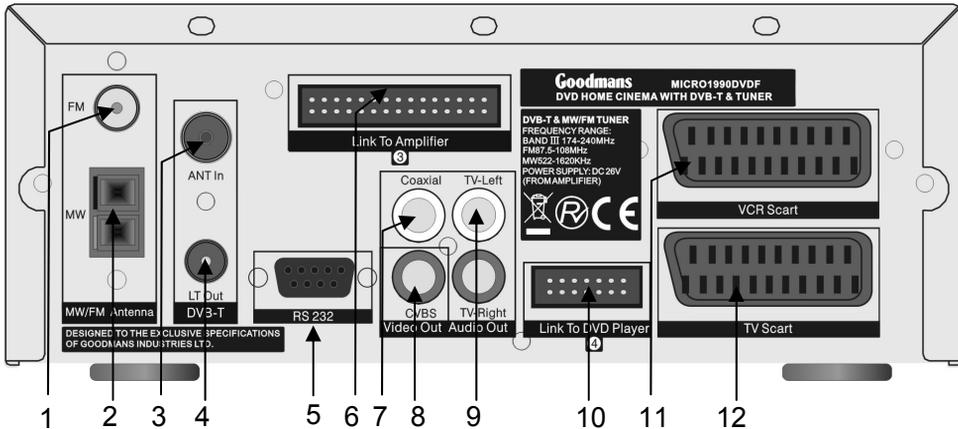
## 2.2 DVB-T & MW/FM Tuner Component

### Front Panel



- |                                |                               |
|--------------------------------|-------------------------------|
| 1. DVB-T screen dimmer switch  | 7. Channel up/Direction up    |
| 2. Power indicator             | 8. Direction right            |
| 3. Menu selection              | 9. Band selection(MW/FM)      |
| 4. Direction left              | 10. Stereo/Mono selection(FM) |
| 5. Channel down/Direction down | 11. Tuning +/- buttons(MW/FM) |
| 6. Select button               |                               |

### Rear Panel

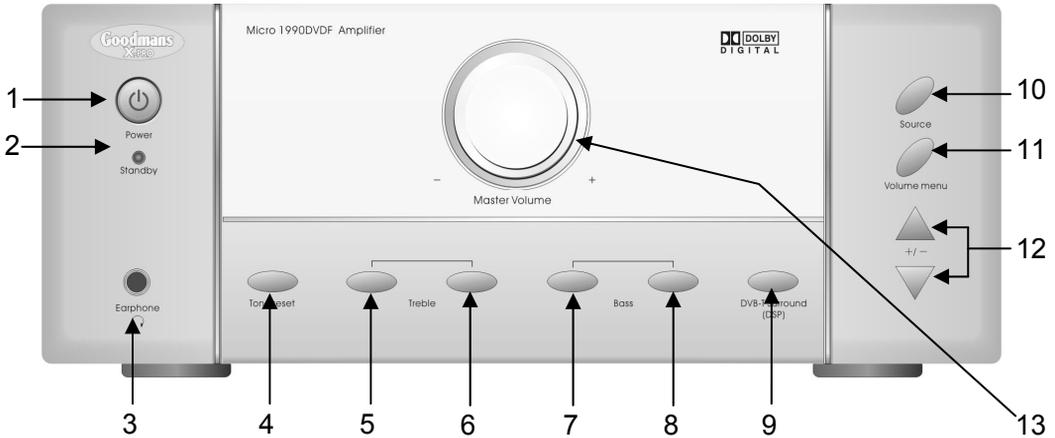


- |   |  |
|---|--|
| 1. FM Aerial Socket                         | 7. Digital coaxial audio output        |
| 2. MW Aerial Sockets                        | 8. Composite video output              |
| 3. DVB-T Aerial Input sockets               | 9. Audio outputs (Left and Right)      |
| 4. DVB-T LT Out(To TV)                      | 10. Socket to connect to DVD component |
| 5. RS 232 socket(for update)                | 11. Scart socket to VCR                |
| 6. Socket to connect to amplifier component | 12. Scart socket to TV                 |

# 2. Location of Controls (cont)

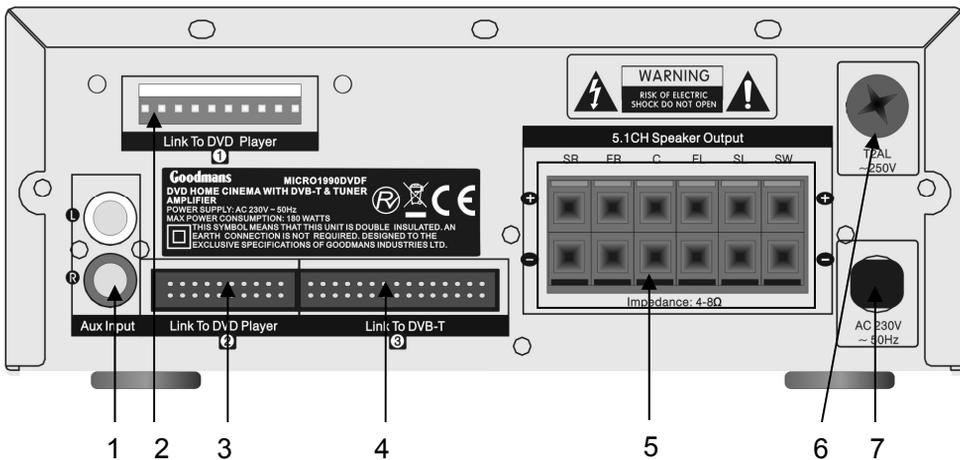
## 2.3 Amplifier Component

### Front Panel



- |                                 |  |
|---------------------------------|--|
| 1. Power switch                 | 8. Increase Bass Level button                            |
| 2. Standby indicator            | 9. DVB-T Surround (DSP) button                           |
| 3. Headphone socket (3.5 mm)    | 10. Source Select button                                 |
| 4. Tone Reset button            | 11. Volume menu button                                   |
| 5. Decrease Treble Level button | 12. Volume +/- buttons (for use with volume menu button) |
| 6. Increase Treble Level button | 13. Master Volume control knob                           |
| 7. Decrease Bass Level button   |  |

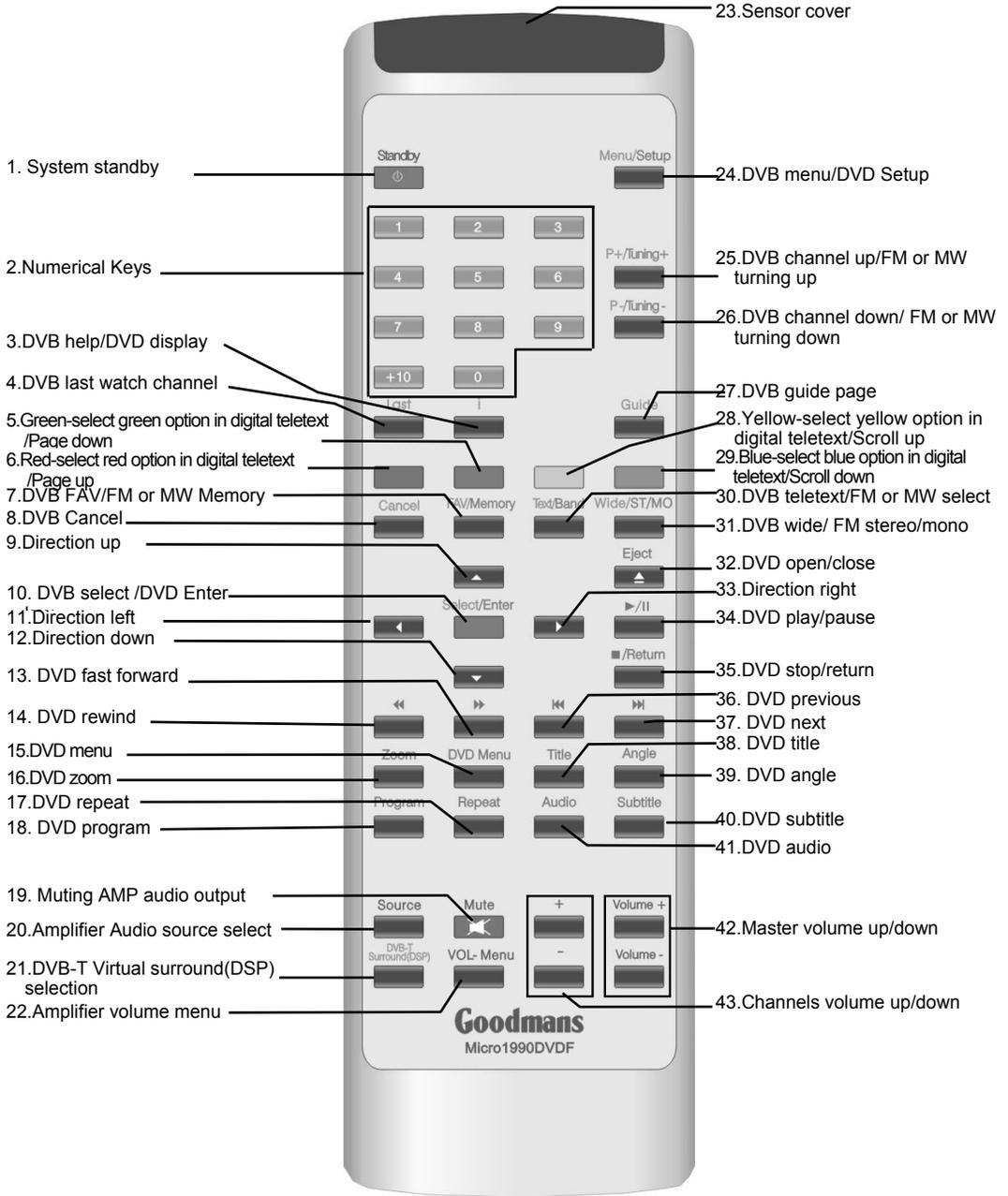
### Rear Panel



- |  |                      |
|--|----------------------|
| 1. Auxiliary input                               | 5. Speaker terminals |
| 2. Socket for link cable to DVD player component | 6. Fuse              |
| 3. Socket for link cable to DVD player component | 7. Mains Cable       |
| 4. Socket for link cable to tuner component      |                      |

# 2. Location of Controls (cont)

## 2.4 Remote Control

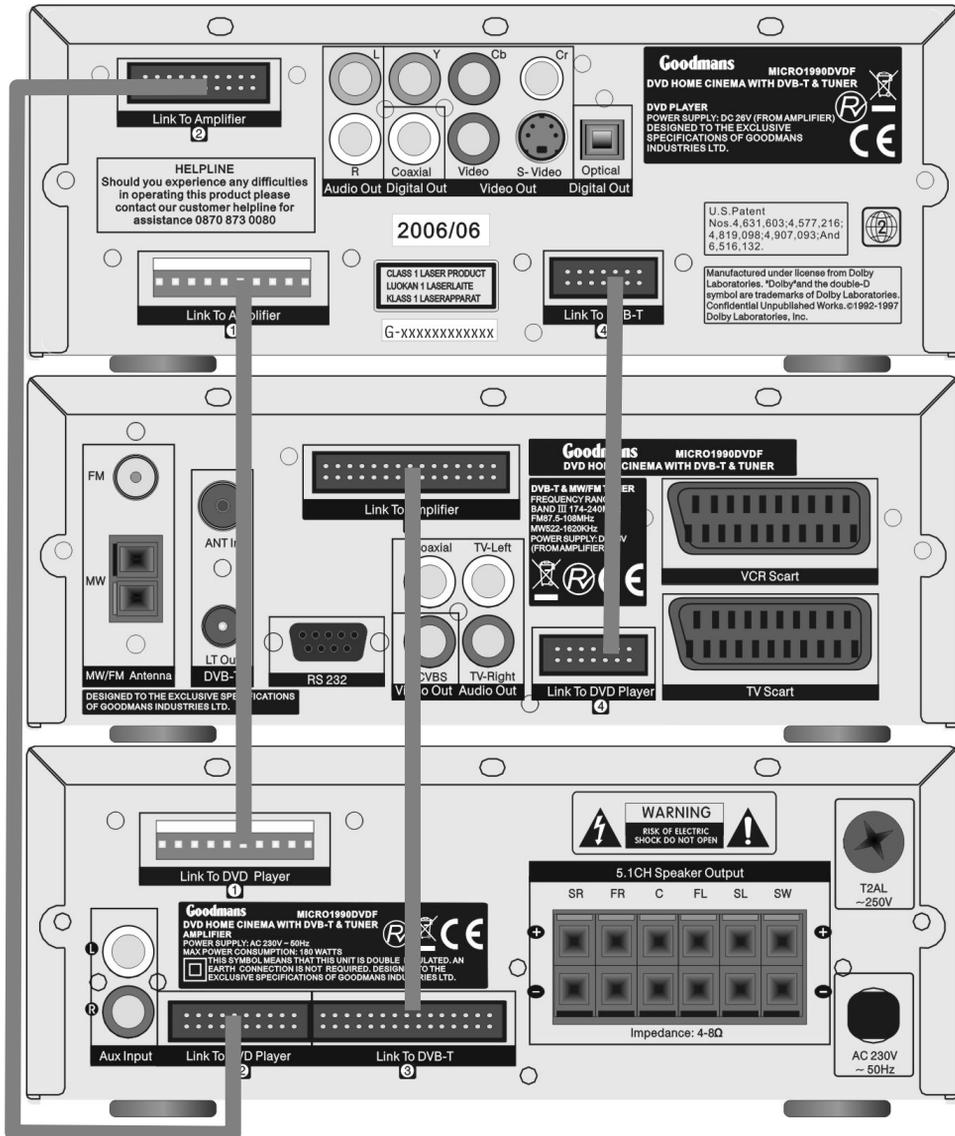


# 3. Connections

Before making/removing any connections ensure that you have unplugged the unit from the mains supply.

## 3.1 Connecting Components

Connect the DVD and Tuner components to the amplifier component by using the ribbon cables. Please note: Due to the amplifier component being heavier than the rest it is recommended to place this at the bottom of the stack.

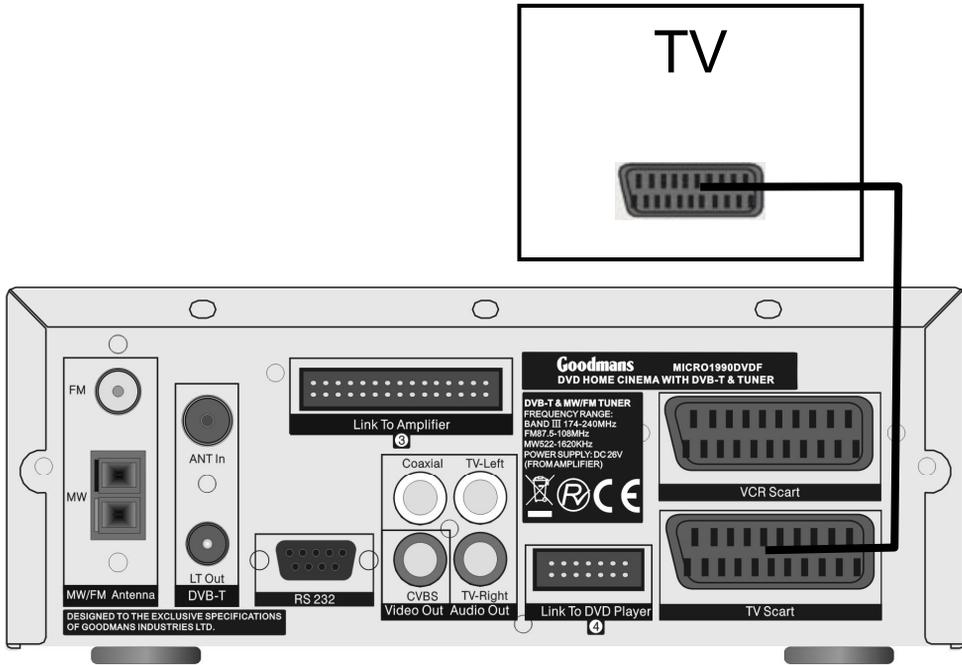


# 3. Connections (cont)

## 3.2 Connections to TV

### SCART CABLE

For ease of use it is recommended that this DVB MICRO system is connected to the TV using a SCART cable, as shown in the diagram below:



### OTHER CONNECTIONS TO TV

This DVB MICRO system also has Y Cr Cb (component), Video or CVBS (composite) and S-Video outputs to allow connection to televisions without SCART sockets. When using these connections the audio outputs (L & R) must also be connected the television's audio inputs otherwise no sound will be heard from the television.

# 3. Connections

## 3.3 Aerial Connections

### DVB-T Aerial

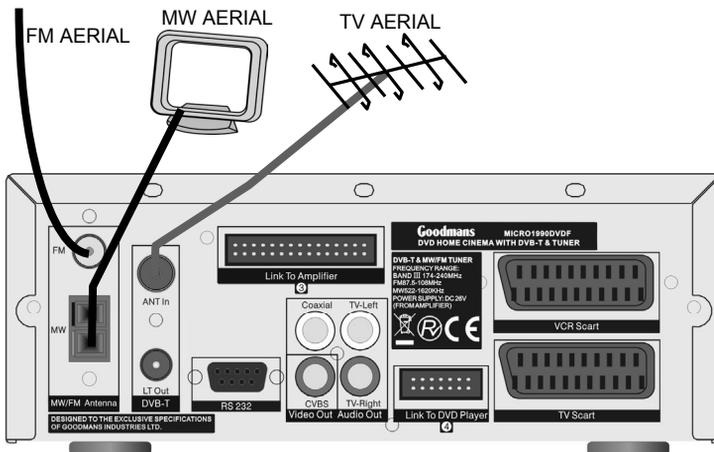
Connect the TV aerial to the ANT in socket, and the RF loop cable to the LT out and the TV.

### FM Aerial

Connect the plug on the supplied FM pigtail aerial to the centre pin of the 75-ohm socket on the rear of the tuner component. If reception is poor, use a 75 ohm coaxial cable (not supplied) to connect the system to an outdoor FM aerial.

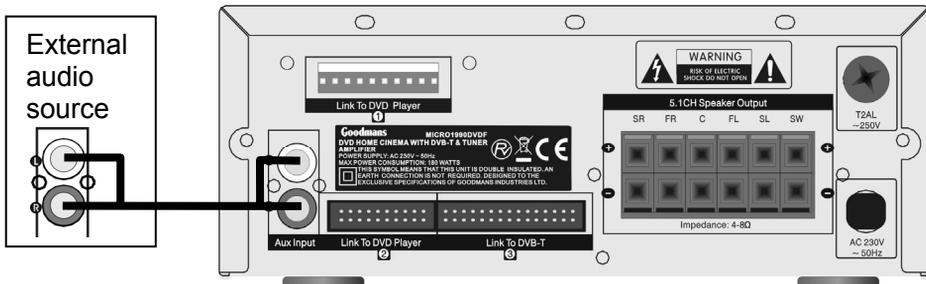
### MW Aerial

Connect the MW loop aerial to two MW aerial terminals on the rear of the tuner component.



## 3.4 Connecting to External Audio Source

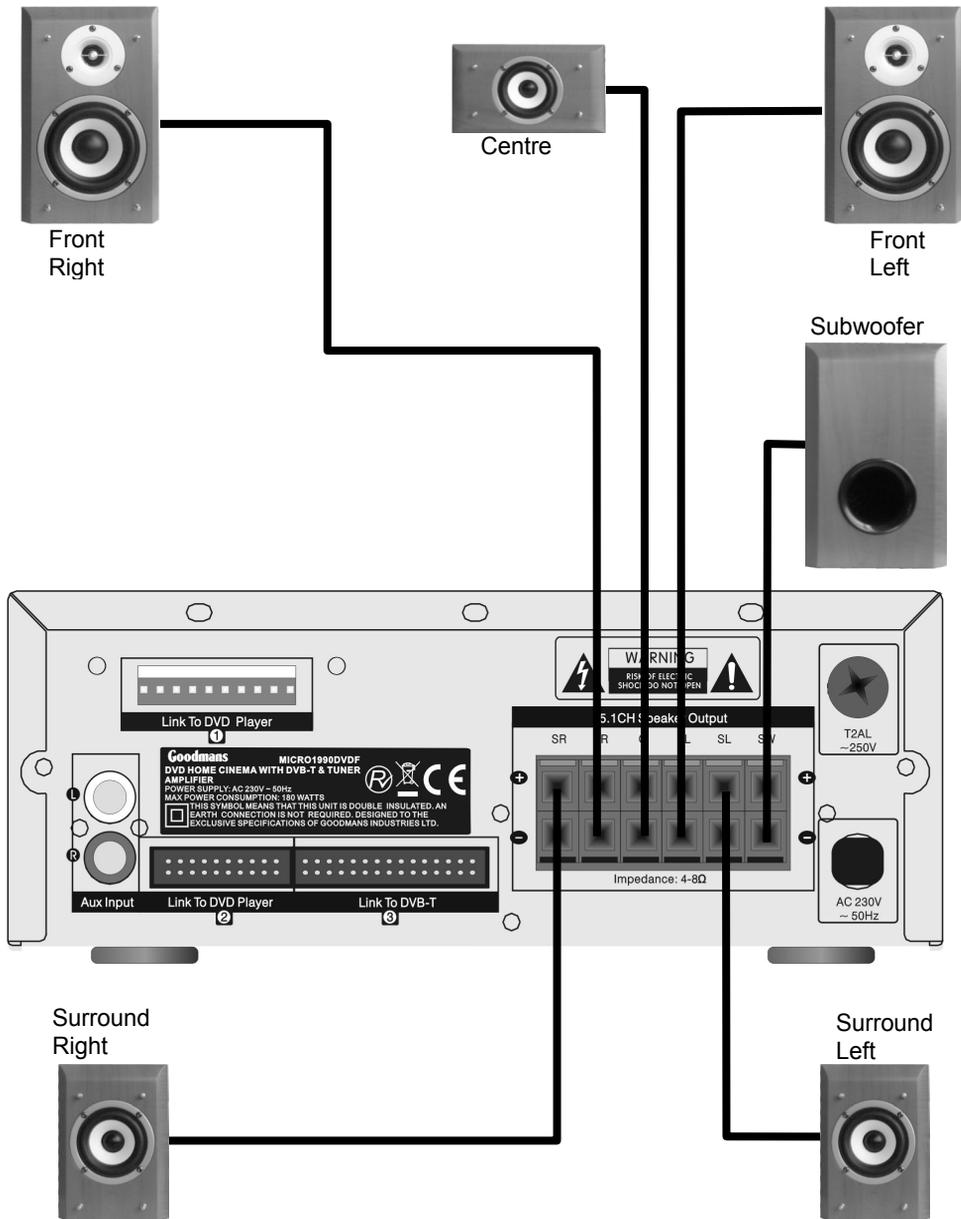
Connect an external audio source using a twin RCA (normally red and white) to the AUX input on the rear of the amplifier component.



# 3. Connections (cont)

## 3.5 Speaker Connections

When connecting the speakers please ensure that the positive terminal on the speaker is connected to the positive terminal on the amplifier and the negative terminal on the speaker is connected to the negative terminal on the amplifier. Please use the following diagram to help connect up the speakers.



# 4. Basic Setup

## 4.1 Setting up the surround sound system

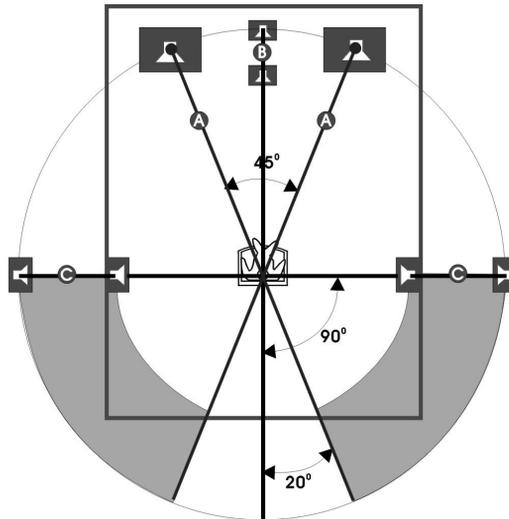
### Positioning

For the best possible surround sound all the speakers other than the subwoofer should be the same distance from the listening position (A).

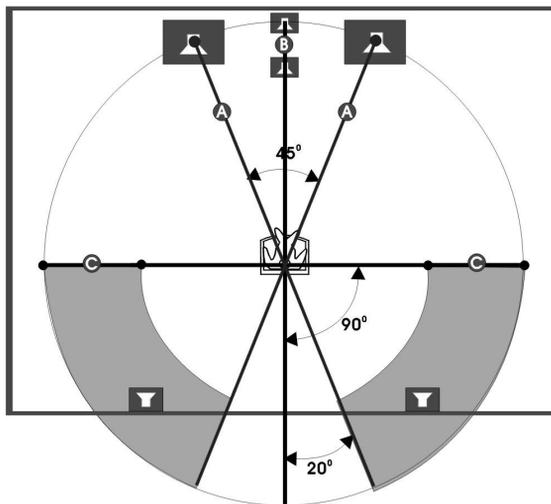
However, this system allows you to place the centre speaker up to 1.6 metres closer (B) and the rear speakers up to 4.6 metres closer (C) to the listening position.

The front speakers can be placed from 1.0 to 15.0 metres (A) from the listening position.

The subwoofer can be position at any position. If possible, place the subwoofer near a corner to maximise the bass response.



The rear speakers can be positioned either behind you or to the side depending on the shape of your room.



# 4. Basic Setup (cont)

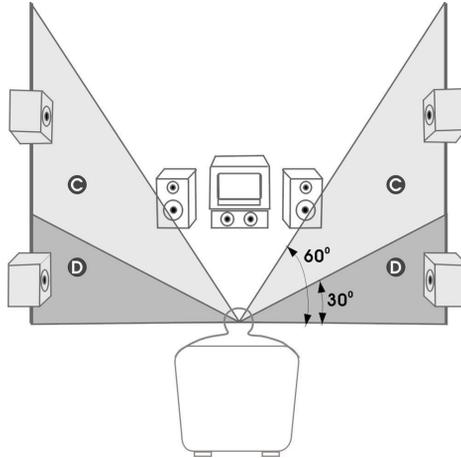
## Height

The best height for the front speakers is when the high frequency speakers (tweeters) are at ear height (while seated)

The best height for the centre speaker is also at ear height (while seated).

The rear speakers should not be positioned below ear height (while seated).

See the following diagram. The best position to place the rear speakers is in **D** area, but they can also be placed in **C** area.

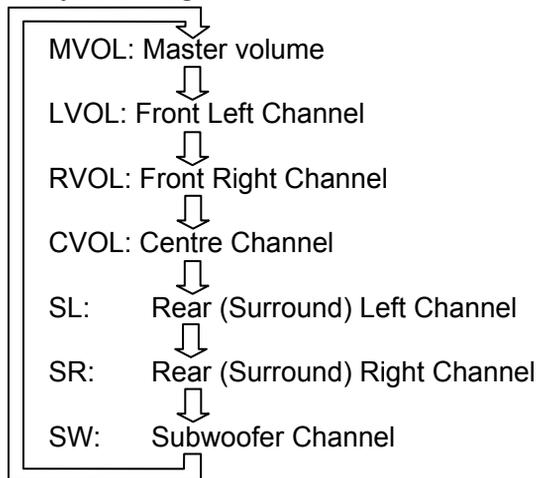


## 4.2 Master Volume

To adjust all of the speaker channels by the same amount use the Master Volume +/- keys on the remote or the master volume control knob on the amplifier component.

## 4.3 Individual Channel Volume

Each individual channel volume can be controlled using the volume menu key on the remote control or on the front panel of the amplifier component. Repeatedly press the volume menu key to cycle through the channels as follows:



## 4. Basic Setup (cont)

When the channel required is shown use the volume +/- keys on the remote or the front panel of the amplifier component to adjust the volume of the selected channel.

### 4.4 Mute

To mute the audio output press the MUTE button and the sound from the speakers will be turned off with display "MUTE ON" on the screen of Tuner. To restore previous audio output press the mute button again.

### 4.5 Virtual Surround Sound (For DVB-T only)

When listening to a two channel source press the DVB-T SURROUND(DSP) button on the remote control or the front panel to process the source using virtual surround sound. When this is selected sound will be heard from all 5 speakers plus the subwoofer. When virtual surround is enabled "SUR ON" will be briefly shown on the display and "DSP" will be remaining in the display.

### 4.6 Treble

To adjust the treble output of the sound use the TREBLE +/- buttons on the front panel. The positive numbers indicate that the treble output is enhanced and negative numbers indicate that the treble output is attenuated. For example +10 indicates the treble is fully enhanced and -10 indicates the treble is attenuated to a maximum.

### 4.7 Bass

To adjust the bass output of the sound use the BASS +/- buttons on the front panel. The positive numbers indicate that the bass output is enhanced and negative numbers indicate that the bass output is attenuated. For example +10 indicates the bass is fully enhanced and -10 indicates the bass is attenuated to a maximum.

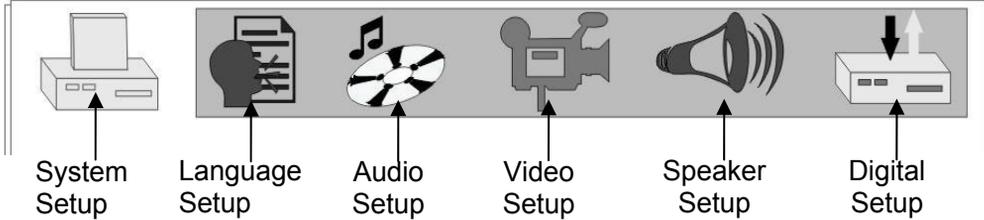
### 4.8 Default Tone Settings

Press the TONE RESET button on the front panel to return the tone settings to the default settings. "TONE RS" will be shown briefly on the display.

# 5. DVD Setup Menu

To enter the setup menu press the SETUP button on the remote control. To access each submenu one of the icons along the top of the setup menu must be selected. The below diagram shows which icon represents which menu.

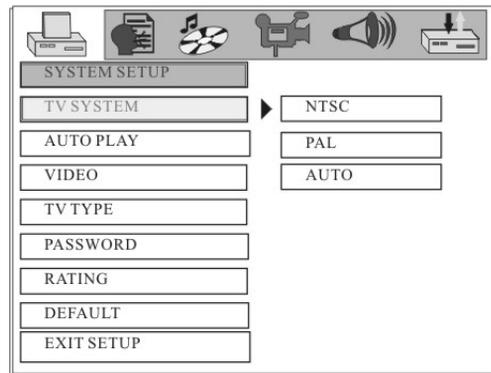
## 5.1. System Setup



### 5.1.1 TV SYSTEM

- Select NTSC if the player is connected to an NTSC TV
- Select PAL if the player is connected to a PAL TV (PAL TV are the standard in the UK)
- Select AUTO if connected to a MULTI SYSTEM TV.

DEFAULT: PAL

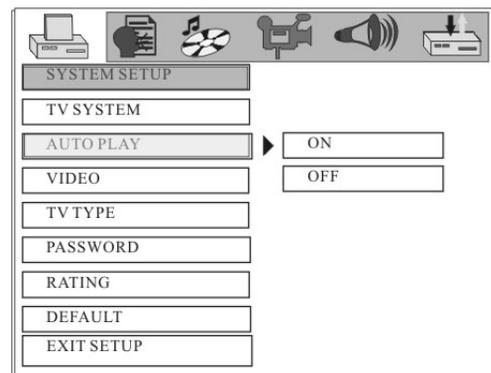


### 5.1.2 AUTO PLAY

When set to on the auto play will activate if the disc tray is closed.

- Select ON to have the AUTO PLAY turns on.
- Select OFF so that the AUTO PLAY does not turn on.

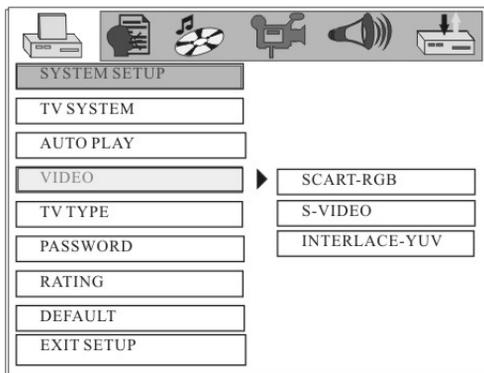
DEFAULT: ON



# 5. DVD Setup Menu (cont)

## 5.1.3 VIDEO

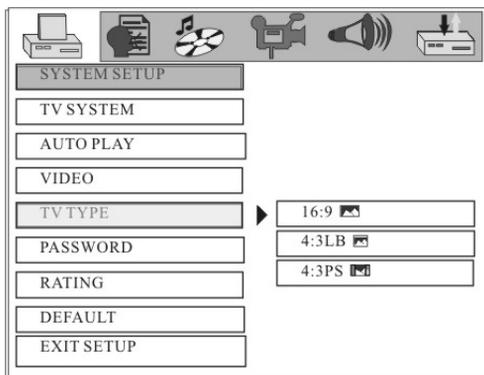
- SCART-RGB: Select this option if the DVD player is connected to the DVB-T from the SCART-RGB output terminal.
- S-VIDEO: Select this option if the DVD player is connected to the TV using an S-Video cable
- Interlace-YUV: Select this option if the DVD player is connected to the TV using component cables.
- When connecting using a composite cable, any of the above selections can be used.



DEFAULT: SCART-RGB

## 5.1.4 TV TYPE

- 16:9: Select this setting if the player is connected to a 16:9 (widescreen) TV. If this option is selected when viewing on a 4:3 (normal) TV, black lines may appear to the left and right of the screen.
- 4:3PS (Pan and Scan): Select this setting if the player is connected to a 4:3 (normal) TV. The movie will fill the entire screen of the TV, however the left and right edges of the picture may not be seen.
- 4:3LB (Letterbox): Select this setting if the player is connected to a 4:3 (normal) TV. The movie will be displayed in its original aspect (height to width) ratio, however black bars may appear above and below the picture



NOTE:

The image shown is related to the recorded disc format. Some discs may not play using the TV TYPE selected.

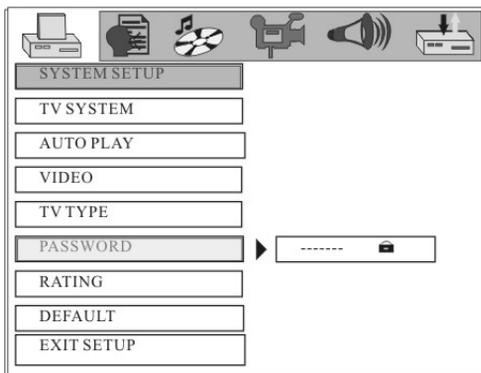
DEFAULT: 16:9

# 5. DVD Setup Menu (cont)

## 5.1.5 PASSWORD

The password option is used in conjunction with the parental rating option (see below) and can be used so that the player is locked and will only play discs with a lower rating than the one set.

First the old password must be entered (initial password: 0000) then press enter. The player will then be unlocked. To lock the player again, enter a new password. Please ensure that it is a memorable password as once the player is locked only the password set will unlock it. Selecting default settings (see below) will not reset the password.

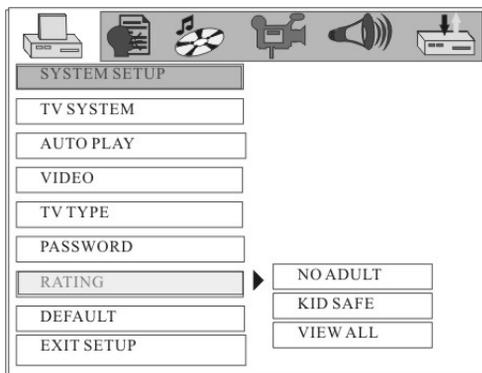


DEFAULT: 0000

## 5.1.6 RATING

As described above in the password option, the player can be set so that it will only play discs with a rating equal or lower than the one set.

- VIEW ALL – All DVDs will be played
- NO ADULT – All DVDs except for those marked as adult will be played
- KID SAFE – Only DVDs that are marked as safe for children will be played.



Please note: If there is no rating set on the DVD the player will play the disc no matter what value this option is set to.

DEFAULT: VIEW ALL

## 5.1.7 DEFAULT

Press enter when this option is selected to restore the player to its factory default settings. Please note this will not reset the password

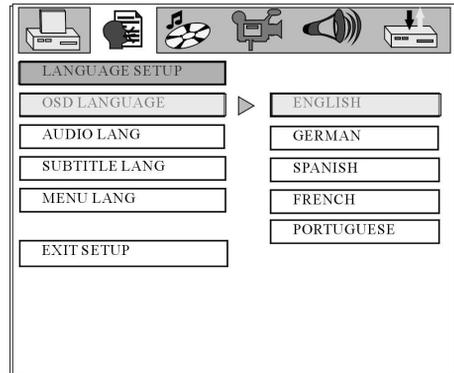
# 5. DVD Setup Menu (cont)

## 5.2. Language Setup

### 5.2.1 OSD LANGUAGE

This option sets the language that is used for the OSD (on screen display).

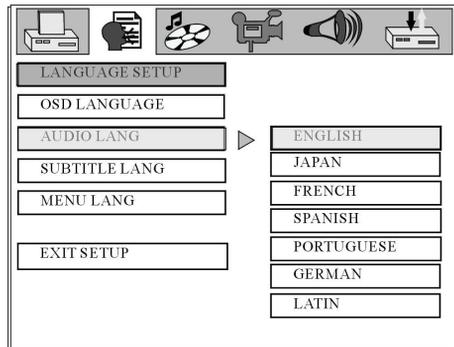
DEFAULT: ENGLISH



### 5.2.2 AUDIO LANG

This option sets the preferred language for the audio when a DVD is played. If this language is not recorded on the DVD then the default language for the DVD will be used.

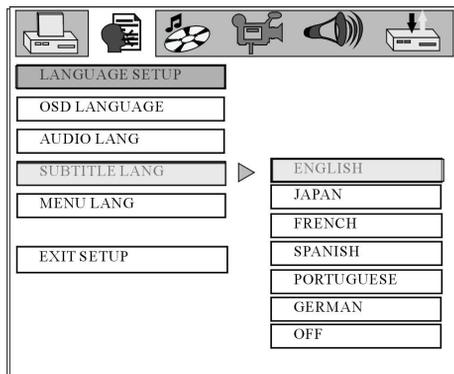
DEFAULT: ENGLISH



### 5.2.3 SUBTITLE LANG

This option sets the preferred language to be used for the subtitles or sets the preferred option to off. When set to off no subtitle will be displayed unless they are part of the film and cannot be turned off. If a language is chosen then this subtitle language will be shown as default if the subtitles are recorded on the disc.

DEFAULT: OFF

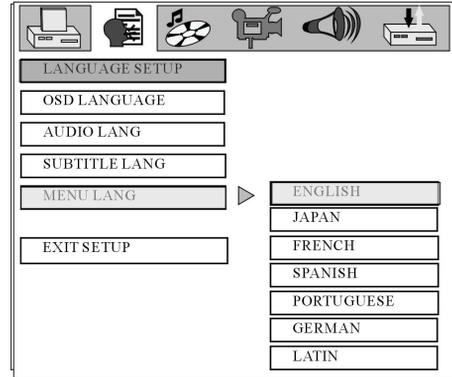


# 5. DVD Setup Menu (cont)

## 5.2.4 MENU LANG

This option sets the preferred language for the DVD menu screens. If the selected language is not recorded on the disc then the default language recorded on the disc will be used.

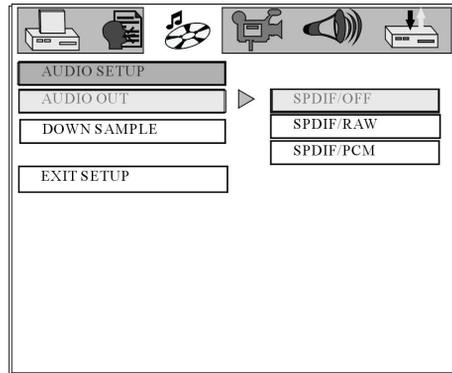
DEFAULT: ENGLISH



## 5.3. Audio Setup

### 5.3.1. AUDIO OUT

- If SPDIF/OFF is selected there will be no output from the digital coaxial and optical outputs.
- If SPDIF/RAW is selected the output from the digital coaxial and optical outputs will be of RAW format. This option is usually selected when connecting to an external Dolby Digital 5.1 amplifier. (please see amplifiers instruction manual for details)
- If SPDIF/PCM is selected the output from the digital coaxial and optical outputs will be of PCM format. This option is usually selected when connecting to an external two-channel amplifier. (please see amplifiers instruction manual for details)

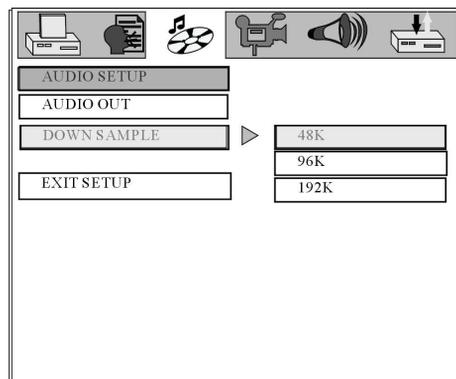


DEFAULT: SPDIF/RAW

### 5.3.2. DOWN SAMPLE

Use this option to set the downmix sample rate.

DEFAULT: 48K



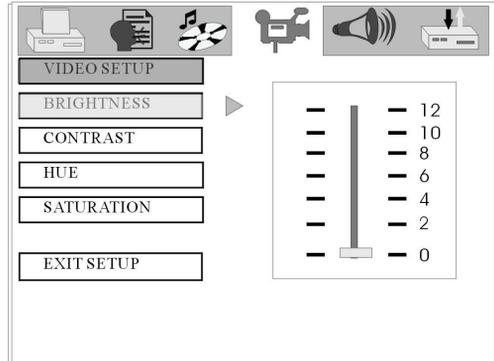
# 5. DVD Setup Menu (cont)

## 5.4. Video Setup

### 5.4.1. BRIGHTNESS

When highlighted use the up/down directional keys to adjust the brightness of the video output.

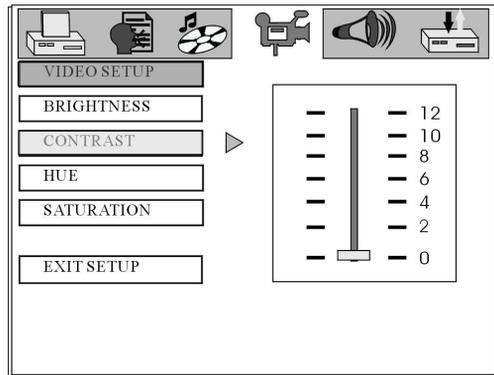
DEFAULT: 0



### 5.4.2. CONTRAST

When highlighted use the up/down directional keys to adjust the contrast of the video output.

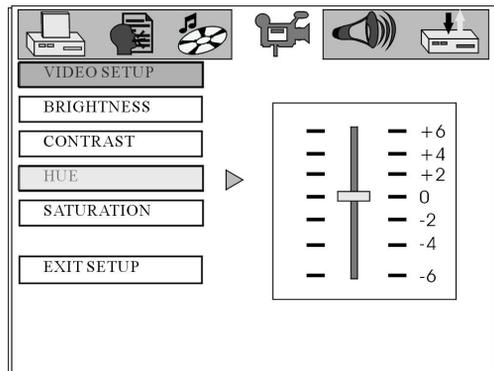
DEFAULT: 0



### 5.4.3. HUE

When highlighted use the up/down directional keys to adjust the hue of the video output.

DEFAULT: 0

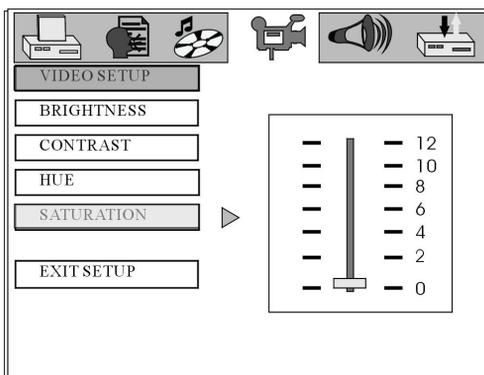


# 5. DVD Setup Menu (cont)

## 5.4.4. SATURATION

When highlighted use the up/down directional keys to adjust the saturation of the video output.

DEFAULT: 0

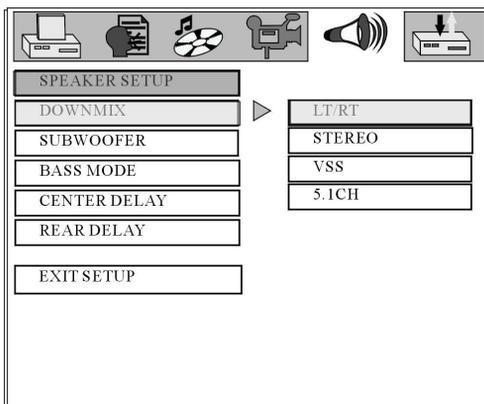


## 5.5. Speaker Setup

### 5.5.1. DOWNMIX

The downmix specifies what sounds are heard from which speakers as follows:

- **LT/RT:** Choose this setting if the disc is recorded using the Dolby pro logic audio format
- **STEREO:** Two channels of audio will be heard. If a 5.1 channel disc is used, only the sound from the front left and right channels will be heard.
- **VSS:** This option is used when a disc is recorded only with two channels and the amplifier will then create a virtual surround sound.
- **5.1CH:** Choose this option if the disc used has a 5.1 channel audio track. This option produce surround sound from 6 distinct audio channels and should be used whenever possible to obtain the best sound.

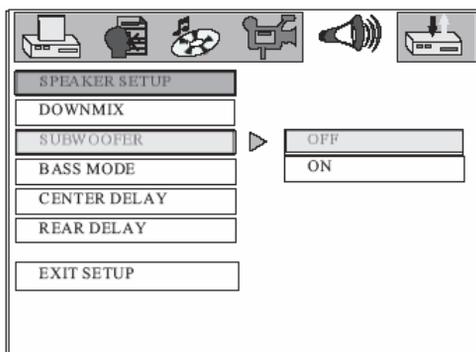


DEFAULT: 5.1CH

### 5.5.2. SUBWOOFER

When ON is chosen, the player will auto detect the subwoofer audio channel then output it to the subwoofer. When OFF is chosen and the subwoofer input will not be outputted to the subwoofer.

DEFAULT: ON

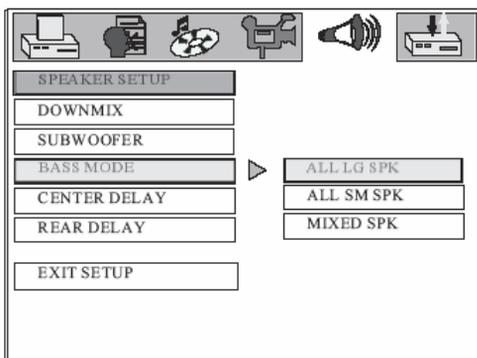


# 5. DVD Setup Menu (cont)

## 5.5.3. BASS MODE

Select the bass mode in accordance with the type of speakers that are used.

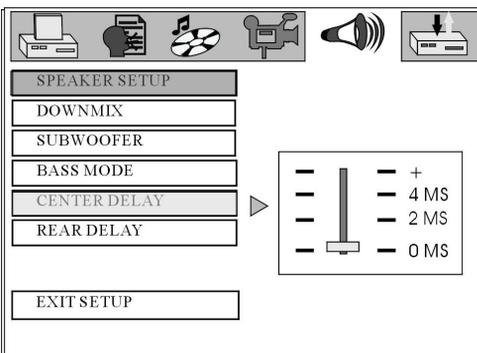
DEFAULT: ALL LG SPK



## 5.5.4. CENTER DELAY

Set the delay for the Centre speaker.

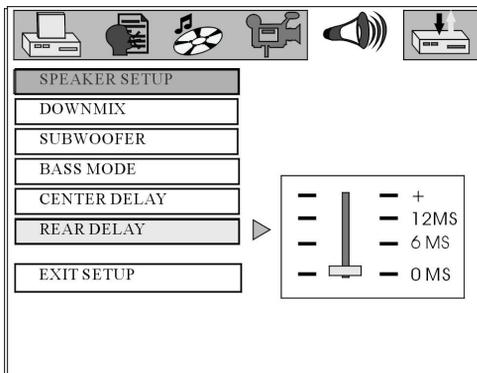
DEFAULT: 0 ms



## 5.5.5. REAR DELAY

Set the delay for the rear speakers.

DEFAULT: 0 ms

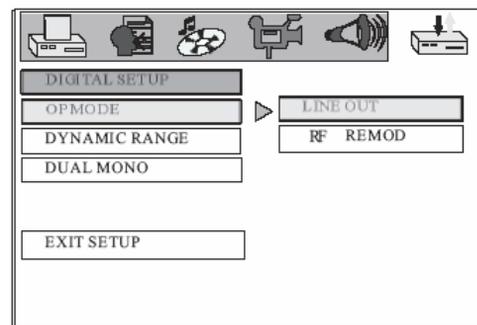


## 5.6. Digital Setup

### 5.6.1. OP MODE

Choose "LINE OUT" or "RF REMOD" for output mode.

DEFAULT: LINE OUT

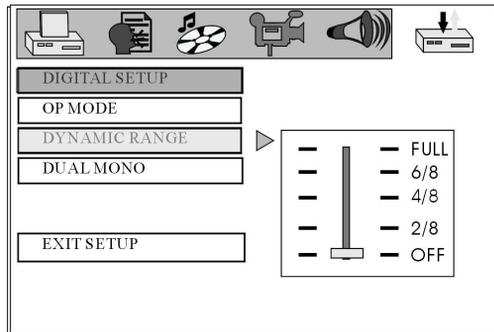


# 5. DVD Setup Menu (cont)

## 5.6.2. DYNAMIC RANGE

Dynamic Range Control is used to suppress loud sounds and enhance quiet sound for using the player at night. There are 8 steps between full compression and no compression.

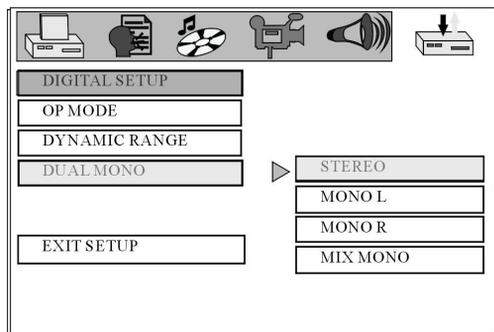
DEFAULT: OFF



## 5.6.3. DUAL MONO

This option sets the L and R mono output mode. Select between STEREO, MONO L, MONO R and MIX MONO.

DEFAULT: STEREO



## 6. CD/DVD Operation

Before using the DVD player please ensure that the TV connected to the player is turned on. Turn the power on using the bottom power button. Using the source button on the remote control or on the front panel select DVD as the source. "DVD" will be shown on the display on the TUNER component.

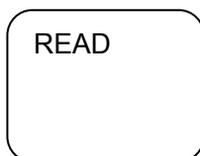
Please note all instructions below refer to buttons on the remote control unless stated otherwise. Many buttons on the remote have the same function as those on the front panel, if the function name is the same then it will perform the same function.

If a "👉" symbol is shown in the top left of the screen this indicates that the requested action is not possible

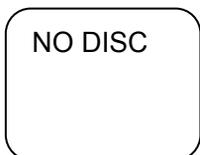
When listening to a CD or MP3 disc sound will be heard only through the front right and front left speakers. The volume for the surround left/right, centre and subwoofer speakers can still be adjusted using the VOLUME MENU button however NO sound will be heard from these speakers.

### 6.1 Insert a DVD Disc

Press the Eject (▲) button to open the DVD disc tray. Place a disc onto the tray and press the Eject (▲) button to close the tray. After the DVD disc tray has closed "READ" will be shown on the top right of the screen and "LOAD" will be shown on the DVD component display. If the inserted disc is of a recognised



format playback will commence automatically. If the disc is not recognised or no disc is inserted "NO DISC" will be shown in the top left corner of the TV screen. "NO DISC" will also be shown on the DVD component display.



# 6. CD/DVD Operation (cont)

## 6.2 Play

Press the PLAY/PAUSE (▶ ||) button to begin playback of the disc when the disc is stopped.

## 6.3 Pre-Stop/Stop

Press the STOP (■) button on the remote or the front panel once to enter pre-stop mode. In this mode if the PLAY/PAUSE (▶ ||) button is pressed, playback will resume from the point at which the STOP (■) button was pressed. "PRE-STOP ▶ ■" will be shown briefly in the top left corner of the TV screen.

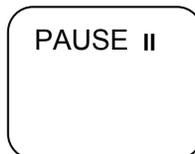


To completely stop the DVD disc press the STOP(■) button when in the PRE-STOP mode. "STOP ■" will be shown briefly in the top left corner of the TV screen. If the PLAY/PAUSE (▶ ||) is pressed now playback will commence from the beginning of the disc.



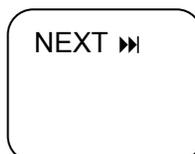
## 6.4 Pause

Press the PLAY/PAUSE (▶ ||) button to pause playback. When playback is paused, "PAUSE ||" is shown on the top left corner of the TV screen. To resume playback press the PLAY/PAUSE (▶ ||) button.



## 6.5 Previous/Next

Press NEXT (▶▶) repeatedly during playback to skip to subsequent chapters.



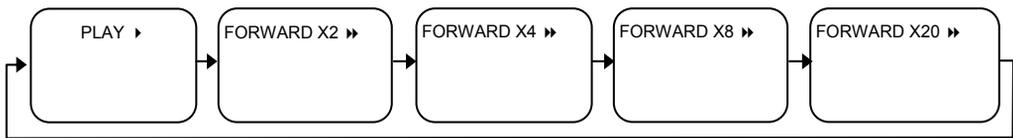
# 6. CD/DVD Operation (cont)

Press PREVIOUS (⏮) repeatedly during playback to skip to previous chapters.



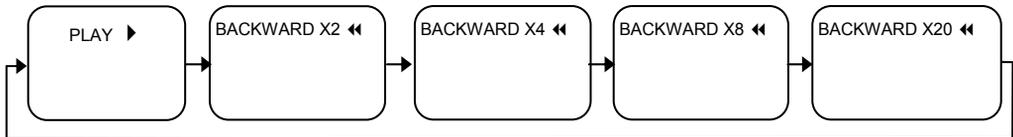
## 6.6 Search Forwards/Backwards

Press the SEARCH FORWARD (⏭) repeatedly during playback to cycle through the different speeds (i.e. 2x normal speed, 4x normal speed etc) for search forward as follows:



To resume normal playback press the PLAY/PAUSE (▶ ||) button.

Press the SEARCH BACKWARD (⏪) repeatedly during playback to cycle through the different speeds (i.e. 2x normal speed, 4x normal speed etc) for search backwards as follows:



To resume normal playback press the PLAY/PAUSE (▶ ||) button

## 6.7 Repeat

### DVD:

Press the REPEAT button to cycle through the available repeat modes as follows:

Repeat Chapter: repeat the currently playing chapter

Repeat Title: repeat the current Title (i.e. repeat all chapters)

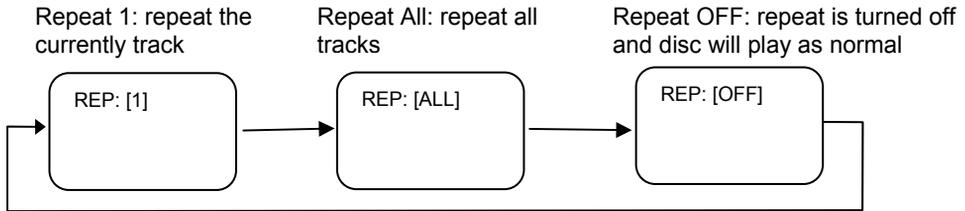
Repeat OFF: repeat is turned off and disc will play as normal



# 6. CD/DVD Operation (cont)

## CD:

Press the REPEAT button to cycle through the available repeat modes as follows:



## 6.8 Programmed Playback

Press the PROG button. The programme entry screen will be shown on screen. Enter the first track using the numerical buttons. To enter a track higher than 9 use the +10 key. For example to enter 25 press the +10 twice and then the 5 button. To enter further tracks use the numerical buttons using the same method. To edit a programme use the directional buttons to highlight the track that is to be changed then enter the track as above. To clear a programme use the directional buttons to highlight "CLEAR" and then press ENTER. To begin playback of a programme use the directional buttons to highlight "PLAY" and then press ENTER.

## 6.9 Title Menu (DVD only)

Press the TITLE button to display the title menu of the DVD. (Please note the title menu varies between discs. Also not all DVD discs will have a title menu).

## 6.10 Root Menu (DVD only)

Press the DVD MENU button to display the root menu of the DVD. (Please note the Root menu varies between discs. Also not all DVD discs will have a root menu).

## 6.11 Menu Navigation (DVD only)

Use the direction keys to navigate through the options available when a menu is displayed on the TV. Directional keys are also used for selecting tracks when listening to an MP3 CD. After a selection has been highlighted using the directional keys press the enter button.

# 6. CD/DVD Operation (cont)

## 6.12 Audio Language (DVD only)

Press the AUDIO button repeatedly to cycle through all of the available audio languages for the disc. (Please note: The audio languages available are entirely disc dependent. Some discs may have only one language recorded)

## 6.13 Subtitle Language (DVD only)

Press the SUBTITLE button repeatedly to cycle through all of the available subtitle languages for the disc. (Please note: The subtitle languages available are entirely disc dependent. Some discs may no subtitles recorded)

## 6.14 Zoom

Press the ZOOM button repeatedly to zoom in on the TV screen by different factors. Whilst in ZOOM mode the DIRECTIONAL KEY on the remote control will pan the picture.

## 6.15 Angle Selection

If multiple angles are recorded for one particular scene the ANGLE MARK INDICATOR (  ) will be shown on the screen. To cycle through the available angles press the ANGLE button repeatedly. Please note this feature is entirely disc specific and will only be available if the disc has multiple angles recorded.

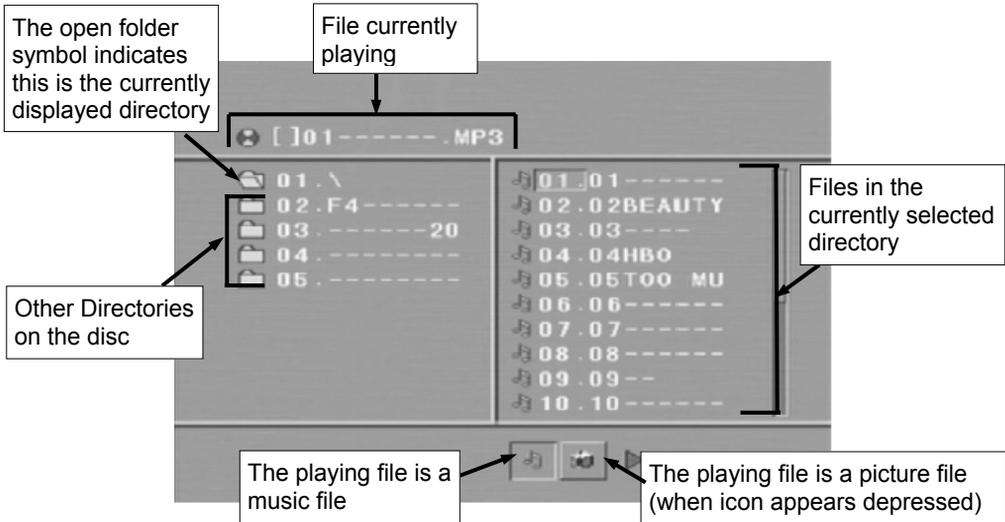
## 6.16 Display

Press the i key to show information about the disc currently playing on the TV screen.

# 7. MP3/JPEG CD Operation

## 7.1 Introduction to MP3/JPEG Playback

This MICRO system will play MP3 or JPEG files that are recorded onto a blank CD. After inserting the disc the system will search for MP3 or JPEG files to play. After searching it will play the MP3/JPEG files in the first directory on the disc. The following will be shown on the screen:



## 7.2 File Selection

Use the UP/DOWN DIRECTIONAL buttons to select the required directory. Press enter to display the files in the directory and playback will commence with the first file in that directory. Use the UP/DOWN DIRECTIONAL buttons to select a different file to play. In file list pane (the right hand pane) each file is given a number. The numerical buttons can be used to select these files directly

## 7.3 Pre-Stop/Stop

Press the STOP (■) button on the remote or the front panel once to enter pre-stop mode. In this mode if the PLAY/PAUSE (▶ ||) button is pressed, playback will resume from the point at which the STOP (■) button was pressed. "PRE STOP ▶ ■" will be shown briefly in the top left corner of the TV screen.



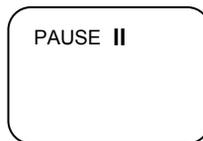
# 7. MP3/JPEG CD Operation (cont)

To completely stop the DVD disc press the STOP(■) button when in the PRE-STOP mode. "STOP ■" will be shown briefly in the top left corner of the TV screen. If the PLAY/PAUSE (▶||) is pressed now, playback will commence from the beginning of the disc.



## 7.4 Pause

Press the PLAY/PAUSE (▶||) button to pause playback. When playback is paused, "PAUSE ||" is shown on the top left corner of the TV screen. To resume playback press the PLAY/PAUSE (▶||) button.



## 7.5 Previous/Next

Press NEXT (▶▶) repeatedly during playback to skip to subsequent files.

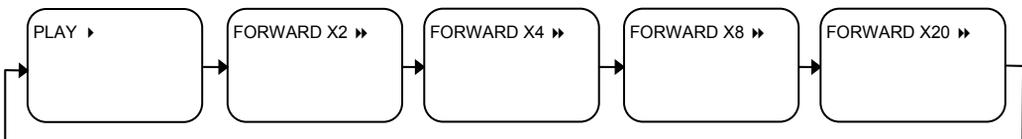


Press PREVIOUS (◀◀) repeatedly during playback to skip to previous file.



## 7.6 Search Forwards/Backwards

Press the SEARCH FORWARD (▶▶) repeatedly during playback to cycle through the different speeds (i.e. 2x normal speed, 4x normal speed etc) for search forward as follows:



# 7. MP3/JPEG CD Operation (cont)

To resume normal playback press the PLAY/PAUSE (▶ ||) button.

Press the SEARCH BACKWARD (◀◀) repeatedly during playback to cycle through the different speeds (i.e. 2x normal speed, 4x normal speed etc) for search backwards as follows:



To resume normal playback press the PLAY/PAUSE (▶ ||) button

## 7.7 Repeat

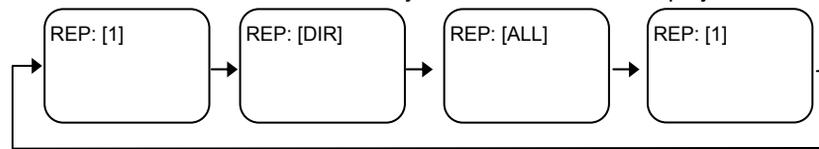
Press the REPEAT button to cycle through the available repeat modes as follows:

Repeat 1: repeat the currently track

Repeat Dir: repeat all tracks in the current directory

Repeat All: repeat all tracks

Repeat OFF: repeat is turned off and disc will play as normal



## 7.8 Rotate/Flip (JPEG CD ONLY)

When viewing a picture, use the DIRECTIONAL button to rotate or flip the image.

- UP button: Flip Vertically
- DOWN button: Flip Horizontally
- LEFT button: Rotate by 90° anti-clockwise
- RIGHT button: Rotate by 90° clockwise

## 7.9 Sequential Play (JPEG CD ONLY)

To display all images on the CD press the PLAY (▶) button. All pictures will then be shown as a slide show.

## 7.10 Picture Transition Effects (JPEG CD ONLY)

When viewing the pictures as a slide show, press the PROGRAM button to cycle through the picture transitions effects (the method used to change between photos). The available effects are as follows:

- Wipe Top
- Wipe Bottom
- Wipe Left
- Wipe Right
- Diagonal Wipe Left Top

## 7. MP3/JPEG CD Operation (cont)

- Diagonal Wipe Right Top
- Diagonal Wipe Left Bottom
- Diagonal Wipe Right Bottom
- Extend From Centre Horizontally
- Extend From Centre Vertically
- Compress To Centre Horizontally
- Compress To Centre Vertically
- Window Horizontally
- Window Vertically
- Random Effect
- Wipe compress from edge to centre
- None

### 7.12 Thumbnail View (JPEG CD ONLY)

Press the DVD MENU button to view all of the images as thumbnails. To enlarge an image use the DIRECTIONAL buttons to highlight the image and then press ENTER. Only 6 images will be shown on the screen, to view the other files use the NEXT (▶) and PREVIOUS (◀) buttons.

# 8. Tuner Operation

## 8.1 Tuning

### 8.1.1 Manual Tuning

Briefly press the TUNING +/- buttons repeatedly to manually tune to the required station.

### 8.1.2 Automatic Tuning

Press and hold the TUNING +/- buttons until the system starts scan the frequencies. The tuning will automatically stop at the next receivable station. To locate the next station repeat the above operation.

## 8.2 Storing Memory Presets

To store a station into a memory preset tune to the required station using a tuning method described above. Press the MEMORY button and then press the numerical key of the memory location on the remote control to store the station in. For example to store the station into preset 1, press the 1 key once and to store the station into preset 13 press the +10 key once, and then press 3 once.

## 8.3 Recalling Memory Presets

To access the presets press the numerical key on the remote control for that preset the relevant number. For example, to select the station stored in preset 2, press 2 key once and to select the station stored in preset 18, press +10 key once, and the press 8 key once.

## 8.4 Stereo/Mono

Press the ST/MO button on the front panel of the TUNER component to switch between stereo and mono reception (stereo reception is only available when the station is broadcasting in stereo on the FM band). When in stereo mode the STEREO indicator will be illuminated.

If when listening to a station in stereo and the reception is noisy (large amount of hiss), press the ST/MO button to switch to MONO listening to reduce the amount of noise, however the reception will not be stereo sound.

## 8.5. Band Selection

To switch between MW and FM band press the BAND button on the front panel. Follow the above instructions for tuning into a station and storing the station into a preset.

## 8.6 Improving Reception

*FM:* Ensure that the FM pigtail aerial is fully unwound and for best reception the aerial should be orientated vertically.

*MW:* To improve reception rotate the MW aerial until the best reception is found.

# 9. DVB-T Operation

## 9.1. Over Air Download

Over Air Download: To ensure that your digital receiver always has the most up to date information. Please ensure that after use it is set to its standby mode. The DVB-T automatically powers up at 3AM each day and searches for any new information which may be broadcast and will download this to your box automatically. This operation will normally take approximately 30 seconds.

If you have an important recording to make at 3AM which must not have a 30 second interrupt then you can disable the auto OAD search by performing the following:

1. Press Menu button and using the up / down buttons highlight SETTING and press the SELECT button, using the up / down buttons highlight CONFIG and press the SELECT button.
2. Use the up and down buttons to highlight "RECEIVER UPGRADE" and press SELECT button.
3. Using the left / right button change function from Enable to Disable.
4. Press SELECT button then MENU and MENU to return to Normal I operation.

Do not forget to re enable the automatic OAD function after you have made your recording by repeating the above instructions but this time selecting ENABLE.

## 9.2. Switching On

Turn on your TV set and select the SCART input (with the AV key, or similar, on the television remote control). Turn on the mains supply to the DVB-T receiver (the receiver's menu will be seen on the TV screen.)

*If after connecting the DVB-T to your TV as shown and you do not see a picture, press AV button on your TV remote until you see the "First Time Install" screen.*

If you do not see the receiver's menu on the television screen, refer to the Troubleshooting Guide.

## 9.3. Tuning In

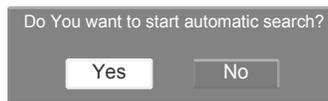
Because this is the first time that the receiver has been used, there are no channels stored in the receiver's memory and the First Time Installation menu is displayed on the screen.



# 9. DVB-T Preparation

First you should select the type of TV set you have connected to the DVB-T receiver. Press the [LEFT] or [RIGHT] keys on the remote control handset to switch the indicator on the screen to show either 16:9, if you have a 16:9 or 'widescreen' TV, or to 4:3 if you have a standard TV set. Then press [SELECT] to start the installation process. The next menu will ask if you want to tune in the digital terrestrial television channels.

Using the [LEFT] or [RIGHT] keys on the remote control, make sure that the YES button is highlighted in yellow, 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 will take about five 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.

**HINT:** Depending on the reception conditions in your particular area, you may find that the list of channels found includes one or more repeated names. This is because the receiver may detect and store some channels, including those it cannot receive clearly, from adjacent areas alongside the strong channels from a transmitter nearby. This is not a problem and the weaker channels can be deleted from the receiver later, as described in Section 11 – DVB-T Advanced Operation -Editing the channel list.

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



You should then refer to the Troubleshooter Guide in 14th CHAPTER to establish the cause of the problem.

When you have finished watching digital terrestrial TV, you may wish to switch the receiver to standby to save power - although the DVB-T receiver can remain powered up continuously, even when the television is turned off, without harm to the television or itself. The receiver is returned to standby by pressing the [STANDBY] key on the remote control handset.

**Hint:** In standby, the DVB-T receiver still consumes power and thereby contributes to air and water pollution and the exhaustion of the World's natural resources. Overnight or when your receiver is not going to be used for long periods of time, you can turn it off at the mains and this will save energy (and save you money). You will not have to re-install the receiver when it is turned on again.

# 10. DVB-T Everyday Operation

While using the DVB-T receiver to the full there are great many keys to use in different situations. Many of the menu screens displayed by the receiver have reminders as to which keys do what, at the base of the screen. In addition, many screens have further help available which is displayed when the [Info] key is pressed, as prompted at the bottom right of the screen.

Pressing the [SOURCE] key at any time while watching television programmes will select the receiver set between output the digital terrestrial television and VCR.

## 10.1. Changing Channels

You can select the channel you wish to watch in one of four ways - stepping through the channel list, selection by number, from the on-screen channel list, and using the electronic programme guide (EPG).

To move through the channel list, press the [P +] or [P -] keys on the remote control. Pressing the [P +] key will select the channel next in the channel list. Pressing the [P -] key will select the previous channel in the list.

Pressing the [P +] key when the last channel in the list is being viewed will select the first channel. Similarly, pressing the [P -] key when the first channel is displayed will select the last channel in the channel list.

You can also select the required channel using its channel list number. Channel numbers are entered using the number keys on the remote control handset and can be up to three digits long.

When you press a number key on there mote control, a small box appears in the top left of the screen to show the entered number. After each digit is entered, the receiver will wait up to two seconds for the next digit to be pressed until either three digits have been entered or you do not press a digit in time. The channel corresponding to the entered number in the box will then be selected.

**Hint:** *The channel list numbers are assigned by the broadcasters. Because not all channels are broadcast free-to-air and stored by the receiver, the channel list numbers do not run continuously. The fifteenth channel in the list, for example, may not be channel number 15 but channel number 17.*

**Hint:** *If you enter a number which does not correspond to a stored channel, the next valid channel number is selected instead. If you enter a number greater than the highest numbered channel in the channel list, the receiver will select the last channel in the list.*

### 10.1.1. Information Banner

Whenever you change channel, using the [P +] and [P -] keys or the number keys, the receiver displays the channel picture along with an information banner at the bottom of the screen. This will remain on the screen for approximately three seconds. The information banner can also be displayed at any time while

# 10. DVB-T Everyday Operation

watching TV by pressing the [Info] key on the remote control. Pressing the [Info] key again removes the banner



**Hint:** Not all channels broadcast the programme data. If the name and times of the programme is not available then 'Not available' is displayed in the information banner.

The information banner gives a number of facts on the channel selected and the programmes on it. The name of the channel is displayed, along with its channel list number and an indication of the strength of the signal received on this tuning channel.

The name and the start and finish time of the programme currently showing on the selected channel are given, and the current time.

Icons are also displayed in the information banner and if this channel is a favourite channel (see Section 11 –DVB-T Advanced Operation – Favourite Channels).



Favourite channel

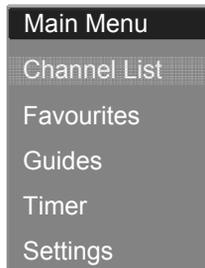
If the channel selected is locked (see Section 11 – DVB-T Advanced Operation - Channel Protection), you must enter the correct four digit code to view the channel.

Alternatively, the [P +] or [P -] keys are used to move to another, unlocked channel.



## 10.2. Channel List

You can also select the required channel directly from the on-screen channel list. This is displayed using the DVB-T receiver's Main Menu. First bring up the menu with the [MENU] key on the remote control handset.



# 10. DVB-T Everyday Operation

Using the [UP] or [DOWN] keys on the remote control, make sure that the first item, Channel List, is highlighted in yellow and press the [SELECT] key, to display the 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 and a favourite channel icon if appropriate (see Section 11 – DVB-T Advanced Operation – Favourite Channels). The name and a quarter-screen image of the channel last viewed is displayed in the top right of the screen.

Using the [UP] or [DOWN] keys, the highlight is moved through the list to the channel required. The [RED(PAGE UP)] and [GREEN(PAGE DOWN)] keys can also be used to move forward or back a complete page (ten channels) at a time. Pressing [SELECT] now changes the quarter-screen display to show the highlighted channel.

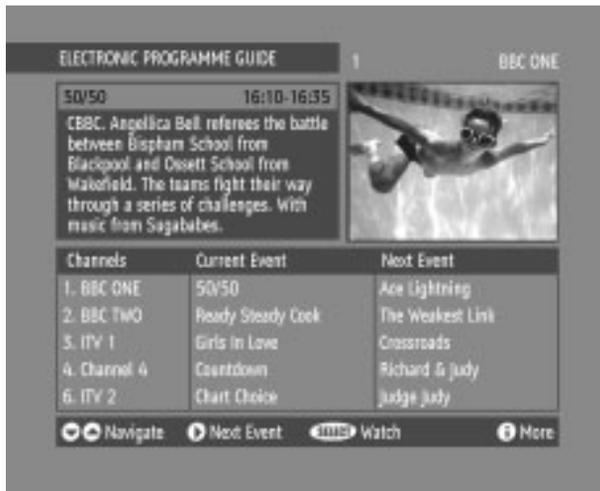
**Hint:** From the Channel List screen, it is possible to edit the channel list, including changing the name of stored channels or deleting them. Editing the list is covered in Section 11 – DVB-T Advanced operation - Editing The Channel List. When using the Channel List to select channels, use the [LEFT] or [RIGHT] keys to ensure that the highlighted button at the bottom of the screen is SELECT, so no editing functions are accidentally begun.

When you leave the Channel List screen, by pressing [MENU] the channel showing on the quarter screen is selected for normal viewing on the whole screen.

## 10.3. Electronic Programme Guide

The fourth way of selecting a channel is with the electronic programme guide, or EPG. The EPG is accessed by pressing the Guide key, [GUIDE]. Like the Channel List, the EPG screen displays a list of the stored channels (in pages of five channels) along with information on what programmes are being broadcast.

# 10. DVB-T Everyday Operation



## 10.3.1. Current Programme

The channels are listed at the bottom of the screen, each with the 'current event' (the name of the programme showing at that time) and the 'next event' (the following programme). When the EPG screen is first displayed, the channel last watched is highlighted in the list of channels. A quarter-screen image of this channel is displayed at the top right of the screen along with the channel name and channel list number.

**Hint:** *If the channel you have been viewing is a digital teletext channel then no picture will appear in the quarter-screen window.*

Details of the current programme on that channel (the name of the programme and, typically, a synopsis with details of the stars involved, the teams playing, or similar information) along with the start and finish times are displayed at the top left inside the dark blue text window.

Moving the highlight through the list of channels using the [UP] and [DOWN] keys will change the programme details in the text window to reflect the channel highlighted. The quarter-screen window continues to show the channel last watched, so you can stay watching a programme while at the same time browse the details of what's on, on other channels.

You may then select the highlighted channel for viewing on the quarter-screen window by pressing the [SELECT] key.

You can leave the EPG screen, to enjoy normal full-screen viewing of the channel in the quarter-screen window by pressing the [GUIDE] key again, or the [MENU] key.

# 10. DVB-T Everyday Operation

**Hint:** Not all channels broadcast all the programme information data. Some channels do not provide the current and next event data and/or the programme details. In this case the programme names and/or the details are not displayed. This is not a fault with your receiver.

## 10.3.2. Next Programme

While the EPG screen is displayed, pressing the [RIGHT] key highlights, in dark blue, the next event name in the list of channels and displays the highlighted channel's programme details for the next event (the programme following the current programme) in the text window. As before, you can browse through the list, checking the programmes coming up next on all the channels.

**Hint:** If the programme details text for the current or next event is too long to fit into the text window on the EPG screen, a scroll bar appears on the right hand side of the window and the text can be scrolled up or down using the [YELLOW] and [BLUE] keys on the remote control. Using [RED(PAGE UP)] or [GREEN(PAGE DOWN)] keys will display the next/previous 5 channels in the list.



Pressing the [SELECT] key while the next event details are displayed will set a reminder to watch that programme. See Section 11 – DVB-T Advanced operation - Programme Reminders And Timers.

You can return to the current programme display by pressing the [LEFT] key or to normal television viewing (to watch the channel last selected in the EPG screen) by pressing the [GUIDE] key again, or the [MENU] key.

## 10.4. Audio Control

### 10.4.1. Soundtrack Language

Some programmes are broadcast in two or more languages simultaneously. The language heard can be selected from the Language Menu. Press [MENU] to display the Main Menu and use the [UP] or [DOWN] keys to highlight the

# 10. DVB-T Everyday Operation

SETTINGS line and press [SELECT], and then use the [UP] or [DOWN] keys to highlight the Language line and press [SELECT]. Use the [UP] or [DOWN] keys to highlight the soundtrack language required and presses [SELECT]. Normal viewing, with the required language soundtrack, can be resumed by pressing the [MENU] key.

If the programme has no alternative language soundtrack broadcast, the Language Menu will not be available, but a message, 'No Multi Language Available' is displayed briefly.

## 10.5. 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 DVB-T 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 EPG or 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 (See Section 11 – DVB-T Advanced operation -Configuring Your Receiver.*

# 10. DVB-T Everyday Operation

## 10.6. Widescreen

TV sets are available with screens of the standard (4:3) format and widescreen (16:9) format. When you first installed your DVB-T receiver you specified the format of the connected TV (this can now be altered if necessary; see *Section 11 – DVB-T Advanced operation -Configuring Your Receiver*).

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 DVB-T 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] keys witches 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] keys witches 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, changing channel or turning the receiver to standby.

### 10.6.1. Subtitle

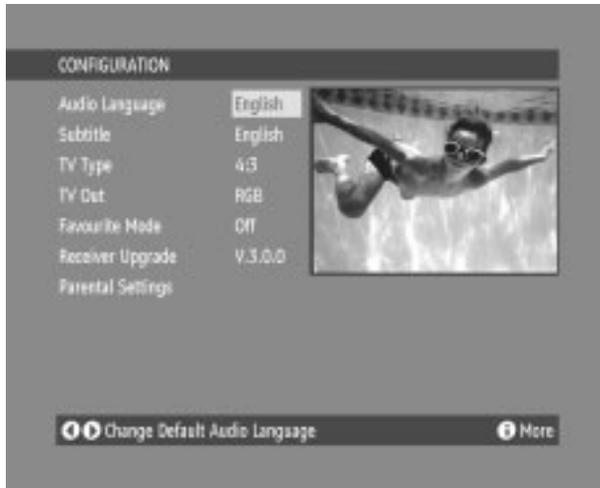
Subtitle key Shows/hides subtitles of channel. When the subtitle key is pressed, subtitle ON/OFF message is displayed.

A rectangular button with a dark grey background and the text "Subtitles ON" in white, centered.A rectangular button with a dark grey background and the text "Subtitles OFF" in white, centered.

# 11. DVB-T Advanced operation

## 11.1. Configuring Your Receiver

Many aspects of your DVB-T receiver can be set up to reflect your circumstances and preferences. The Configuration menu screen is accessed from the Main Menu. Press the [MENU] key to display the Main Menu and the [DOWN] key twice to highlight Configuration, and then press [SELECT] to display the Configuration menu screen.



The various configuration functions are displayed in a list, along with a quarter-screen image of the currently selected channel. You can select a function by highlighting the corresponding menu line with the [UP] or [DOWN] keys. There are seven configuration functions.

*Some digital terrestrial channels enable you the option of adding subtitles to the screen. To select this option you need to highlight the Subtitles line in the configuration menu and use the [LEFT] or [RIGHT] keys to toggle this option to on. Return No Menu to normal TV viewing by pressing the [MENU] key.*

### 11.1.1. Audio Language

Digital terrestrial television channels can broadcast simultaneous soundtracks in more than one language. This function selects which language soundtrack you will hear when switching to a channel broadcasting with multiple sound tracks. See also Section 10 – DVB-T Everyday Operation - Audio Control.

Highlight the Audio Language line in the Configuration menu and use the [LEFT] or [RIGHT] keys to cycle through the language options.

Return No Menu to normal TV viewing by pressing the [MENU] key.

# 11. DVB-T Advanced operation

## 11.1.2. *Subtitle*

Digital terrestrial television channels can broadcast with subtitles displayed on-screen for the hard-of-hearing. This function selects the desired subtitle language and enables the 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 disable and language options.

Return NO MENU to normal TV viewing by pressing the [MENU] key.

## 11.1.3. *TV Type*

Digital terrestrial television channels can broadcast programmes in a widescreen format which must be output differently to normal and widescreen TV sets. This function tells the receiver the screen format of the TV connected so that broadcasts are displayed correctly.

Highlight the TV Type line in the Configuration menu and use the [LEFT] or [RIGHT] keys to select 4:3 if you have a standard TV set connected or 16:9 if it is a widescreen TV. This function duplicates the selection made at the time of first installation (see 9 – DVB-T Preparation- Tuning In) and can be used if you change TV sets. Return NO MENU to normal TV viewing by pressing the [MENU] key.

## 11.1.4. *Favourite Mode*

This function enables or disables the favourite channel list mode. See 11 –DVB-T Advanced Operation – Favourite Channels.

## 11.1.5. *TV Out*

The DVB-T receiver can output either an RGB or CVBS signal from the TV SCART on the rear panel. Although the RGB format results in a better quality picture, not all equipment - particularly some VCRs - can cope with an RGB signal.

## 11.1.6. *Parental Settings*

This function enables or disables the menu protection system and allows the PIN code to be changed. See 11 - DVB-T Advanced Operation - Channel And Menu Protection.

## 11.2. **Editing The Channel List**

The digital terrestrial television channels found by the receiver when first installed are stored in its memory as a channel list. This list can be altered and amended to remove unwanted channels and to suit your own preferences.

# 11. DVB-T Advanced operation

First bring up the Main Menu with the [MENU] key on the remote control handset. Then, using the [UP] or [DOWN] keys on the remote control, make sure that the first item, Channel List, is highlighted in yellow and press the [SELECT] key, to display the Channel List.



The Channel List screen displays the list of channels in the receiver's memory, with a quarter-screen image window showing the selected channel, and can be used to change channels for viewing, delete channels from the memory, edit the name of the channel as it appears in the list and on-screen, lock a channel against viewing by younger members of the family, and set up favourite channels.

Channel List functions are carried out on one channel at a time. The channel to be affected is first highlighted in the list using the [UP] or [DOWN] keys. You can move faster through the list using the [RED(PAGE UP)] or [GREEN(PAGE DOWN)] keys to move up or down a complete page of 10 channels in one jump.

## 11.2.1. Select

This function selects a channel for viewing and is an alternative to using the [P +] and [P -] keys, channel number or EPG. Highlight the channel to be viewed, highlight the SELECT button at the base of the screen using the [LEFT] or [RIGHT] keys and press [SELECT]. The highlighted channel now appears in the image window and you can leave the Channel List to view the channel by pressing [MENU].

## 11.2.2. Delete

The initial installation of the DVB-T receiver can produce duplicate entries in the channel list from transmitters operating at different frequencies in adjacent areas, and you may wish to delete these duplicate entries from the list.

# 11. DVB-T Advanced operation

In addition, other channels which you do not want in the list. Highlight the channel to be deleted, highlight the DELETE button at the base of the screen using the [LEFT] or [RIGHT] keys, and press [SELECT]. The highlighted channel is deleted from the list.

You can now perform further editing on the channel list, or return to normal broadcast viewing by pressing the [MENU] key.

## 11.2.3. 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 15 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.

**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 practise, this is a very quick means of entering the required letters into the channel name.*

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.

Using the other two functions of the Channel List menu screen - LOCK and FAVOURITES - is dealt with in the next sections.

## 11.3. Channel And Menu Protection

### 11.3.1. 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.

# 11. DVB-T Advanced operation

The channel lock is applied with 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 in yellow 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(PAGE UP)] or [GREEN(PAGE DOWN)]. Now select the LOCK button at the base of the screen with the [LEFT] or [RIGHT] keys and press [SELECT].

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.



**Hint:** The PIN is factory set to 0000. This code should be reset (as described below) to another sequence of numbers, known only to you, when you have finished setting up the receiver.

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 only be displayed on entry of the correct code. To remove the lock on a channel, repeat the same process as to lock the channel.

## 11.3.2. 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 menu scan can be locked out of use too, to prevent this.

Display the Main Menu by pressing the [MENU] key, highlight Configuration, and press [SELECT] to display the Configuration menu screen. Highlight the Parental Settings line of the menu (press [DOWN] five times) 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 lockout the complete menu system; the Installation Menu setting locks only the Installation menu (see *Section 11 – DVB-T Advanced operation -Re-installation*); and the Disabled setting allows free access to any of the menus.

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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.

The same Parental Settings menu is used to change the PIN code. With the Set Lock Key line highlighted, press [SELECT] to display the Set Lock Key window. This requests the new four-digit code to be entered twice (for confirmation) and the new code comes in effect when you return to the Configuration menu by pressing [MENU].



**Hint:** *If you want the channel and menu locks to work efficiently and actually protect channels from access, do change the PIN code from the factory default. Make sure that you choose a number that is not obvious to others but one that can be remembered by you.*

## 11.4. Favourite Channels

There will be some channels that you tend to watch more often and some only occasionally. Although some duplicate channels you may want to delete from the channel list, others although not watched frequently, you will not want to do away with all together. The favourite mode allows the most-watched channels to be accessed more easily, leaving the less-watched channels accessible but out of the way.

When the favourite mode is activated, the [P +] and [P -] keys cycle through the favourite channels only and the EPG will list the favourite channels only (other channels can still be accessed by channel list number or from the Channel List menu screen). Any channel can be a favourite channel and the Channel List menu is used to label those channels you want as favourites.

Display the Channel List menu screen by highlighting Channel List on the Main Menu and pressing [SELECT].

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Use the [LEFT] or [RIGHT] keys to highlight the FAVOURITE 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(PAGE UP)] or [GREEN(PAGE DOWN)] keys), and press [SELECT]. A channel selected as a favourite appears in the main channel list with a favourites icon against the channel name.



A channel can have its favourites status removed by repeating this procedure, to remove the icon. Leave the Channel List 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, the [DOWN] key twice to highlight Configuration, and press [SELECT] to display the Configuration screen. Press the [DOWN] key four times to highlight the Favourite Mode line and using the [LEFT] or [RIGHT] keys change the setting from Off to On.

When you leave the Configuration menu by pressing [MENU] the favourite mode is activated. Now, changing channel using the [P +] or [P -] 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.*

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## 11.5. Programme Reminders And Timers

With the greatly extended channel choice that digital terrestrial television brings, it is all too easy to miss a favourite programme. The DVB-T receiver has two facilities built in to help you make sure you catch all the TV shows you want.

### 11.5.1. Programme Reminders

Programme reminders can be set to signal that a programme is about to start when you are watching another channel. A reminder is set from the Electronic Programme Guide screen.

Press the [GUIDE] key to display the EPG screen and press [RIGHT] to display the next programme details in the text window and highlight the name of the next programme in the list of channels. Press [SELECT] when a programme you want to watch is highlighted and the reminder icon is displayed against that programme's name.

You can exit the EPG screen in the normal way - pressing [GUIDE], [MENU]. 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.

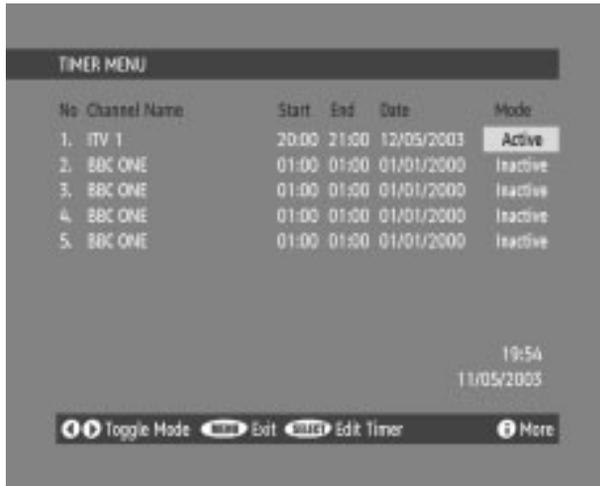
**Note:** *Reminder events are ignored if any timer event is active at that time.*

### 11.5.2. Event Timer

You can also set a timer to switch the receiver to any channel without your intervention. This is intended for making video recordings of programmes when you are out. If a single programme is to be recorded, the receiver can be left switched to the required channel and the timer set on the VCR. However, if two or more programmes on different channels are to be recorded then the DVB-T receiver's own timer is set as well, to select the required channel when it is needed.

Display the Main Menu by pressing the [MENU] key and highlight and select the Timers line to display the Timer menu screen. Up to five separate timer events can be set and each is displayed in the Timer screen, showing the event number, the channel to be selected, the start time, end time, date and the mode - whether that event is active (and will be acted on) or not.

# 11. DVB-T Advanced operation



To set an event, Highlight its mode button using the [UP] or [DOWN] keys and press [SELECT] to display the timer entry window. Here the five settings of channel name, start time, end time; date and frequency mode can be set. You can move freely between each setting using the [UP] and [DOWN] keys. The channel name is set using the [LEFT] or [RIGHT] keys to display the channel which broadcasts the programme to be recorded. The start time, end time and date are each set with the number keys on there mote control in 24-hour format. The frequency mode determines how often the receiver operates this event and is set with the [LEFT] or [RIGHT] keys to be either Once, Daily, or Weekly.



**Hint:** If an invalid number for the start or end times or the date is entered, the highest valid number is automatically entered in its place. So, entering 28:30 as the time will automatically change to 23:30, and a date of 15:14:2002 will change to 15:12:2002.

Pressing [MENU] or [SELECT] returns to the Timer screen with the settings in place in the timer event list. The event mode is automatically set to Active and you can now return to normal viewing (press the [MENU] keys) and at the appointed time the receiver will switch over to the required channel and at the end of the event, switch the receiver to standby.

**Hint:** If you are watching digital terrestrial TV at the time the timer event starts, a message is flashed onto the screen announcing that the receiver is 'Switching to timer channel' so you understand what is happening.

When the Timer screen is displayed, any event can be set to be Inactive (so it will not occur) or the channel, times and frequency mode altered by highlighting the event's Mode button and pressing [SELECT] as before.

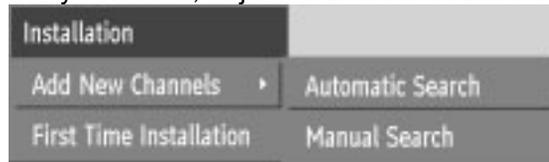
# 11. DVB-T Advanced operation

You can exit the Timer screen and return to normal TV viewing by pressing [MENU].

## 11.6. Re-Installation

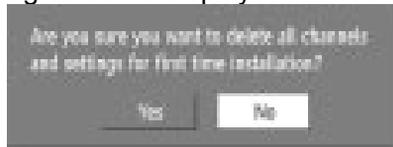
Although your DVB-T receiver will not lose its settings or stored channels when switched off, you may wish to re-install the receiver because you have moved to a different area with different broadcast frequencies, you wish to reinstate a channel previously deleted from the channel list, or you want 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 Installation line and press [SELECT] to display the Installation Menu. You can either perform a First Time Installation, effectively resetting the receiver to its factory condition, or just search for channels.



### 11.6.1. First Time Installation

To reset the receiver, highlight the First Time Installation line in the menu and press [SELECT]. A warning screen is displayed in case of accidental operation.



Highlight the YES button with the [LEFT] or [RIGHT] key and press [SELECT] to erase all the channels and settings and switch the receiver to standby. You can now start again as detailed in Section 9 -DVB-T Preparation - Tuning In.

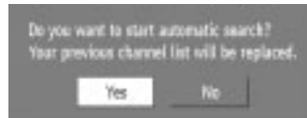
### 11.6.2. Add Channels

The DVB-T 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).

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 setting Menu, using the [UP] or [DOWN] keys to highlight the Installation line and press [SELECT] to display the Installation Menu. Highlight the AUTOMATIC SEARCH line and press [SELECT] . A warning message is displayed. This starts the automatic tuning process as described in Section 9 – DVB-T Preparation - Tuning In, and searches through all the available broadcast frequencies for free-to-air channels. Previous channels will be replaced on automatic search.

# 11. DVB-T Advanced operation

If, alternatively, from the search options menu the Manual Search line is highlighted and [SELECT] pressed, the manual search screen is displayed.



Highlight the YES button with the [LEFT] or [RIGHT] key and press [SELECT] to start the automatic search.

This is for searching for digital channels on a single broadcast frequency. The frequency channel number (21-69) is entered in the box at the top left of the screen and the received signal level and signal quality can be observed on the two bar graphs at the bottom. When [SELECT] is pressed, the receiver searches that frequency and display a list of the channels found. Before returning to the Installation menu.

**Hint:** *The bar graphs of signal quality and signal level give a good indication of whether any channels are likely to be found. If only the signal level graph shows a high value then it is likely that an analogue channel occupies that broadcast frequency. If the signal quality bar is high as well then it is a digital frequency and digital channels will probably be found. Again, channels which duplicate those already in the channel list are ignored. However, the manual channel search will find all channels on the broadcast frequency/When either search is finished, press the [MENU] key to return to normal broadcast viewing, to watch the new digital terrestrial television channels found.*

# 12. Safety

## **POWER**

The Micro system should be plugged into a 230V to 240V AC, 50Hz supply only.

## **LEADS**

Ensure the power supply lead, and all other leads, are positioned so they are not likely to be walked on or pinched by things placed on or against them. Pay particular attention to the power lead, where it enters the mains plug and where it comes out of the receiver. Do not connect or adjust leads when the receiver is plugged in.

## **TEMPERATURE AND MOISTURE**

Do not leave or use the receiver in a hot, cold or humid area. Do not allow the receiver to get wet - from drips or splashes - as this may be dangerous. Do not place water-filled objects such as flower vases, on top of the receiver.

## **VENTILATION**

Slots and openings in the receiver's cover are for ventilation. Do not cover or block them as this could lead to overheating.

## **CLEANING**

Unplug the receiver before it is cleaned. Use a lightly dampened cloth only. Do not use liquid or aerosol cleaners.

## **HEAT AND FLAMES**

The receiver should not be placed near to naked flames or sources of intense heat, such as an electric fire. Ensure that no naked flames sources, such as lighted candles, are placed on top of the Receiver.

## **LIGHTNING**

Unplug your receiver from the wall socket if there is a storm or lightning, or if it is to be unused for a long time.

## **REPLACEMENT PARTS**

If your receiver needs a replacement part, ensure the person undertaking the repair uses parts which are specified by the manufacturer or have the same specifications as the original part. Other parts may cause a fire, electric shock or other hazards.

## **BATTERY DISPOSAL**

Please ensure that exhausted batteries from the remote control handset are disposed of safely.

## **SERVICING**

Ensure the person who services your Micro System is qualified to do so. Do not remove the cover yourself - you could get an electric shock. We are proud to offer a high-quality product. To keep this level of quality, your receiver should be serviced at a Goodmans authorised service centre.

# 13. Listening to an External Source

To listen to an external source, connect the source as shown in section 3.4. Press the source button until AUX is shown on the DVB-T & TUNER component display.

U.S. Patent Nos. 4,631,603; 4,577,216;  
4,819,098; 4,907,093; And 6,516,132.

## LEGAL NOTICE:

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

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For DVD players with 625p, but not 525p, progressive scan output:  
'CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 625 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 625p DVD PLAYER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.'

For DVD players with 525p, but not 625p, progressive scan output:  
'CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 525 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 525p DVD PLAYER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.'

For DVD players with 625p and 525p, progressive scan output:  
'CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 625 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 525p AND 625p DVD PLAYER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.'

# 14. Troubleshooting

In the unlikely event that this DVB & DVD MICRO system should fail to work, please check the following items.

Fault	Possible solution
No Power	Are the power leads firmly plugged into the power outlets? Mains fuse blown
The remote control will not operate your Micro system	(1) The batteries in your remote control need replacing (2) There is an obstruction blocking the signal path between the remote control and the system front panel
No Picture	Check that the system is connected properly The video cable is damage. Replace with a new one Make sure that the system is connected to a video input socket on the TV. Make sure that the TV is turned on. Make sure that the correct AV channel on the TV. For detail please check the TV's instruction manual
Noisy/Distorted Picture	Clean the disc Do not connect the system through a VCR as the VCR has copy protection which will distort the picture so that it cannot be copied
Aspect Ratio is incorrect/cannot be changed	The aspect ratio is fixed on your DVD disc. Depending on the TV the aspect ratio may not be changed
No/Very low sound	Check that the speakers and components are connected securely Ensure that the correct source has been select on the system Check audio cables for damage System is in pause/slow motion/fast forward/rewind. Press PLAY/PAUSE (▶   ). Check the settings for each speaker
Sound from left and right speakers are unbalanced or revered	Check that the speakers and components are connected correctly and securely Adjust the individual volume settings for each speaker

## 14. Troubleshooting (cont)

Severe hum or noise is heard	Check that the speakers and components are connected securely Move the stereo/speakers away from the TV Clean the disc
Severe hum or noise is heard (cont)	
When listening to a DVD with surround sound some sounds are difficult to hear.	Check the speaker connections This may be normal operation, on some discs the range of volume between certain scenes can be large. Therefore if the volume has been turned down during a loud section the next quiet section may not be heard.
Sound only comes from centre speaker	On some disc only the centre speaker are used. Test the disc on another player.
The language of the subtitles cannot be changed when playing a DVD	Multilingual subtitles are not recorded on the DVD The subtitles are actually recorded on the video of the DVD, for example when viewing a section where foreign language is spoken.
The angles cannot be changed when playing a DVD	Multi-angles are not recorded onto the DVD If angles are recorded on the DVD they can only be changed when the angle mark is shown on the screen.
DVB-T	
No signal found	Aerial is disconnected Aerial is damaged/misaligned Out of digital signal area
No picture or sound	Tuned to digital teletext channel?
Scrambled channel message	Channel is scrambled
Forgotten channel lock code	Re-install channels to cancel channel lock
Forgotten menu lock code	Contact help line
After moving the DVB-T to another room you find you are no longer able to receive the digital reception	The aerial feed former new point may come through a distribution system which may reduce the digital signal now received by the DVB-T --Try a direct feed from the antenna

# 15. Specification

## 15.1 Amplifier Section

Frequency Response:- Main, Centre and surround channels	20Hz-20kHz, <sup>+1</sup> <sub>-3</sub> dB
Frequency Response:- Subwoofer	80Hz-150Hz
Signal noise ratio:	> 85dB
Harmonic distortion:	0.2%(1kHz/6Ω/25W)
Power output:- Main Channel	15W + 15W
Power output:- Centre Channel	15W
Power output:- Surround Channel	15W + 15W
Power output:- Subwoofer	35W
Load impedance:- main, centre and surround channel	6-16Ω
Load impedance:- subwoofer	6-16Ω
Range of tone regulation:- Bass	100Hz ± 10dB
Range of tone regulation:- Treble	10KHz ± 10dB
Line input:	500mV/47kΩ
Distance of remote control	Over 5m
Voltage:	AC 230V 50Hz
Power Consumption:	<180 W
Dimensions	220 (w) x 308 (d) x 82 (h)
Weight	4.6KG

## 15.2 DVB-T & Tuner Component

<b>DVB-T</b>	
SYSTEM Processor	STI5518 32bit @ 81 MHz
Flash memory	2Mbyte
SDRAM	16Mbyte
EEPROM	32Kbit
MHEG-5 engine	compliant with ISO/IEC 13522-5 and UKEngineProfile1
Object carousel support,	compliant with ISO/IEC 135818-6 and UK DTT Profile
Frequency range	Band III 174-240MHz
Signal level	-82.3dBm
Transmission standards	DVB-T, MPEG-2
Demodulation	COFDM with 2K/8K FFT mode
FEC	all DVB modes
Video	MP@ML, PAL, 4:3/16:9
Audio	MPEG Layer I & II 32/44.148kHz
CONNECTIONS	UHF aerial input, UHF aerial loopthrough, TV SCART
<b>MW/FM TUNER</b>	
Output Level	0.5 V
Load	47KΩ
Frequency Range:- FM	87.50-108.00 MHz

# 15. Specification

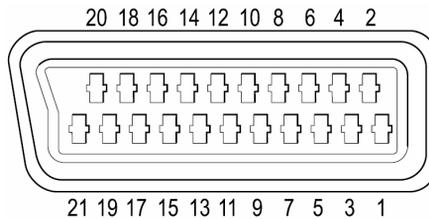
Frequency Range:- MW	522-1611kHz
Sensitivity:- FM	< 20 $\mu$ V
Sensitivity:-MW	< 3mV/m
Signal noise ratio:- FM	> 46dB
Signal noise ratio:- MW	> 40dB
Stereo separation:	> 20dB
Dimensions (mm)	220 (w) x 308 (d) x 82 (h)
Weight	1.8KG

## 15.3 DVD Component

Video Format	MPEG2 for DVD
Audio format	MPEG1, MPEG2, PCM, DOLBY DIGITAL, analogue stereo, virtual surround
Signal output:- Video System	NTSC or PAL
Signal output:- Video	1.0V DVB-CH -p
Signal output:- Audio	5.1 channel 0.5V DVB-CH -p, mixed stereo 2V DVB-CH -p
Output interface	SCART, RCA (composite and component), S-video
Frequency response:	20Hz-20kHz
Signal noise ratio:	> 90dB
Total harmonic distortion	0.003%
Dimensions (mm)	220(w) x 308 (d) x 82 (h)
Weight	2.0KG

Due to the continual improvement of our products the specifications may be changed without notice.

### TV SCART PINS



1. Audio right output	8. Function switching output	15. Red output
2. n/c	9. Ground	16. Fast blanking output
3. Audio left output	10. n/c	17. Ground
4. Ground	11. Green output	18. Ground
5. Ground	12. n/c	19. CVBS output
6. n/c	13. Ground	20. n/c
7. Blue output	14. n/c	21. Ground

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