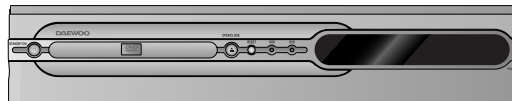




Owner's Manual

DVD HARD DISC RECORDER

Model : DHD-4000D



HELP LINE ; 0870 100 2525

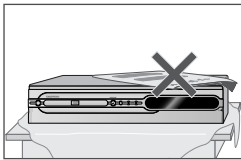
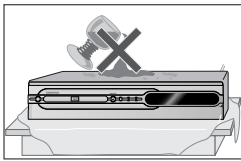
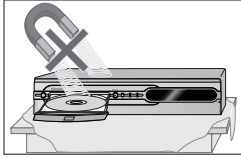
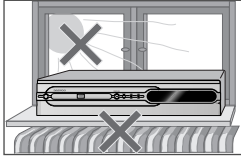
*With queries, please quote the page number,
reference number and model number.*

DAEWOO



Safety Instructions

Please keep the PVR/DVD Combo's guarantee sheet and receipt in a safe place.



Precautions

- Read this booklet carefully
- Make sure the rating of your household electricity supply matches that shown on the back of your PVR/DVD Combo.
- Read this page and chapter "Setting up your PVR/DVD Combo" to help you set up and adjust your product correctly
- Do not put the PVR/DVD Combo in a hot or humid place.
- Do not open the PVR/DVD Combo. Get a qualified technician to carry out any repairs.
- Do not connect the PVR/DVD Combo to the power supply if you have just moved it from a cold environment to a warm room. This can lead to condensation inside the PVR/DVD Combo, which can damage it. Wait for approx. 2 hrs for it to reach room temperature.
- Make sure the PVR/DVD Combo is placed at least 10 cm apart from other home appliances or obstacles to ensure sufficient ventilation.
- The apparatus should not be exposed to dripping or splashing and no objects filled with liquids, such as vases should be placed on top of the recorder.
- During a storm and/or lightning, unplug the PVR/DVD Combo from the mains jack and aerial.
- Put the recorder on a steady flat surface.
- Only clean the recorder with a soft, lint-free cloth. Do not use harsh or alcohol-based cleaning agents.
- The power cable must be fitted with a fused plug approved by ASTA or BSI to BS 1362 and provided with a 5A fuse
- The fuse must always be securely replaced. If the video recorder is not working, the fuse may need to be replaced.

For your own Safety



- There are no components in this product you can service or repair yourself.
- Do not open the case of the PVR/DVD Combo. Only allow a qualified engineer to repair or service your video
- This PVR/DVD is designed to work continuously. Switching it off (stand-by mode) does not disconnect it from the mains. To disconnect it from the mains you have to unplug it.



Key Features of the PVR/DVD Combo

PVR

Digital Video Recording

Instant Recording of a television programme by a single button press.

Live TV Buffer - This feature allows you to actively time-shift live television. The buffer can store up to one hour of material allowing you to go back in time, replay part of a programme that you might have missed or you just want to see again.

Live Television Pause

Pause a current live television programme and return to it at your convenience. If you need to Pause press the Pause/Play button on the remote control and the live picture will freeze, to resume watching press the Pause/Play button and the programme will resume exactly where you left off.

Hard Disk Recording

Recording onto a hard disk means you don't have to search through videotapes trying to find a programme you recorded, nor do you have to find videotape if something you want to record comes on the television you can record it instantly with the touch of a button.

Choice of Recording Qualities : with this feature you can select the recording quality you would like your timed recordings to be recorded in.

There are three options Basic /Medium/High.

Basic : 34 hrs and 12 mins

Medium : 18 hrs 42 mins

High : 13 hrs 12 mins

You can also set a recording using Show View / Video Plus(+) and select to record Once, Daily, Twice or Weekly. All instant records are performed in High quality mode.

Recording Television

Instant Recording - you can record a programme with the touch of a button. You can record for as long as you like or until you run out of disk space.

Record Until - you can instantly record television but can also specify a "Stop Time" after which the unit will automatically power off.

Set Recording - Using the Set Recording Menu you can set a timed recording.

Using the Set Recording menu you can set up to eight recordings. You can choose to record a programme Once, Twice, Daily or Weekly. You can also set a recording using Show View / Video Plus(+) and select to record once daily twice or weekly.

Show View / Video Plus(+) - simply input the Show View / Video Plus(+) code and the unit will do the rest, you will also have the opportunity to select the recording quality and the frequency of the recording.

Trick Modes - You can perform various trick modes such as pausing, fast-forwarding and rewinding images when using the PVR/DVD player.

Record Monitor - You can watch the recorded programme when you are recording a programme without stopping Rec.

DVD Title Copy - When you watch DVD Title, press [Rec] on the remote control and you can copy DVD Title to HDD. The recorder does not copy DVD Title including Macro Vision.

Multiple Speed Forward and Reverse - You can fast forward and reverse at different speeds to change the speed press the Fast Forward and Rewind buttons multiple times on the remote control.

DVD

- **DVD, VCD, CD, CD-R (MP3, JPEG), CD-RW playback function**
- **MP3, JPEG file playback function (CD-R disc having Files such as MP3 and JPEG)**
- **GUI (Graphical User Interface) OSD (On Screen Display)**

By using the [INFO] button on the remote control, information on the DVD/VCD/CD player and disc, can be displayed on the TV screen.

- **Screensaver function**
- **3D sound (3D sound effect using 2 speakers)**
- **High bit / high sampling with 27MHz /10bit video encoder**

This unit has 27MHz / 10bit capability, that enables the faithful reproduction of fine images.

- **High bit / high sampling with 96KHz /24bit audio D/A converter**
With this 96KHz / 24bit linear Pulse Code Modulated signals, which constitute the highest specifications in the DVD standards, you can enjoy faithfully reproduced sound in all of its various modes. To support 96KHz sampling / 24bit sound, the shaping noise of this multi-level digital sigma type of D/A converter is kept flat up to 44KHz, thus preventing the important audio signals from being affected.

- **Coaxial / Optical digital output (PCM, Dolby Digital, dts)**

You can enjoy high-level digital audio by connecting with amp embedded with Dolby Digital / dts decoder.

- **Built-in Dolby Digital decoder**
- **Analog audio 2-channels output for DOWNMIX (x1)**
- **Composite video out (x1)**
- **Slow Forward / Reverse (DVD) playback**
- **Fast Forward / Reverse playback**
- **Search of title, chapter, and time in DVD disc, and search of track and time in VCD and CD**

- **Various TV aspect (DVD)**
4:3 for Pan and Scan, 4:3 for Letter Box, and 16:9 for Wide

- **Repeat playback (title and chapter for DVD, track and disc for VCD/CD)**
- **Repeat a defined period from A to B**
- **Selective Play (DVD/VCD/CD)**

You can select and play the desired title / chapter of DVD and track of Video CD/CD in STOP mode.

- **Various OSD (On Screen Display) languages function (DVD)**

You can select and display OSD among various languages.

- **Parental Lock function (DVD)**
This function can prevent playback of software that may be unsuitable for children.

- **Multi Audio function (DVD)**
The audio soundtrack can be heard in up to 8 languages. In the case of SVCD or VCD, it will depend on the disc. (The number of audio languages depends on the software.)

- **Multi Subtitle function (DVD)**
The subtitle can be seen in up to 32 languages. In the case of SVCD or VCD, it depends on the disc. (The number of subtitle languages depends on the software.)

- **Multi Angle function (DVD)**
This function allows you to choose the viewing angle of scenes which were shot from a number of different angles. (The number of angles depends on the software.)

- **Screen zoom function (DVD/VCD)**

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DVD part

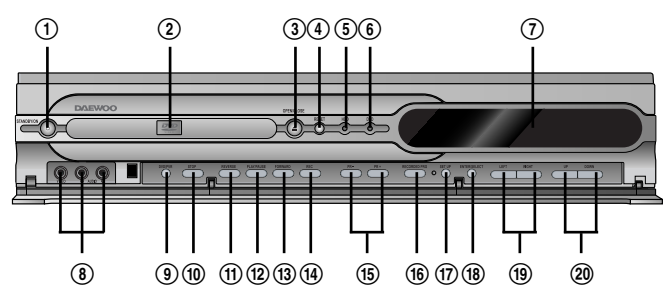
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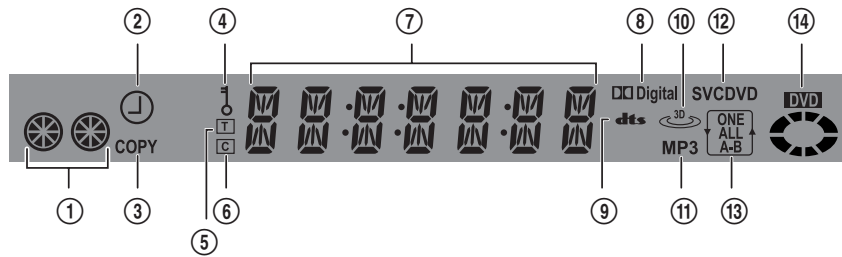
Identification of Controls

Front panel



- ① STANDBY/ON button
Use to power the device on/off if AC power supply is connected.
- ② Disc tray
- ③ Open/Close Tray button
- ④ RESET button
- ⑤ HDD indicator
Lights in red when the unit is in PVR mode.
- ⑥ DVD indicator
Lights in green when the unit is in DVD mode.
- ⑦ Operation Display Window
Displays the operation of the device, for more information, see the next page.
- ⑧ Video/Audio input jack
- ⑨ DVD/PVR button
Use to change DVD mode to PVR mode, and vice versa.
- ⑩ STOP button
Use to stop playing.
- ⑪ REVERSE button
Use to playback back rapidly.
- ⑫ Playback/PAUSE button
Plays back video recording or disc. The button can also be used to pause the picture being played back.
- ⑬ FORWARD button
Use to playback rapidly.
- ⑭ RECORD button
- ⑮ PR- / PR+ button
- ⑯ RECORDED PRG button
Press this button to view a list of recorded programmes.
- ⑰ SETUP button
- ⑱ ENTER/SELECT button
- ⑲ LEFT/RIGHT button
Navigate the On Screen Display using these buttons.
- ⑳ UP/DOWN button
Navigate the On Screen Display using these buttons.

Operation Display Window



- ① PVR Operation
- ② REC and TIMER REC display
 - : Recording ,
 - ⊖ : TIMER Recording ,
 - ⌋ : To be Timer-recorded
- ③ Copying

Used to copy contents from a disc onto the hard disk.
- ④ Parental (Lock)

When you set Parental Lock on DVD mode, this indicator is lit up.

Parental Lock consists of 8 levels of parental control, violence, sexual scene, strong sexual scene and others to protect children from watching those scenes.
- ⑤ Title

This is displayed in VCD and CD disc.
- ⑥ Chapter

This is displayed in DVD disc.
- ⑦ Time, Counter and Current Operation
 - TV : TV from PVR mode
 - PVR : PVR from TV mode
 - PLAY : Play
 - PAUSE : Pause
 - OFF : Power is OFF
 - PR## : PVR mode from DVD mode
 - LIVE : Live TV
 - SEARCH + : Forward in PVR
 - SEARCH - : backward in PVR
 - REC : P## : Recording in PVR
 - DVD : DVD mode from PVR mode
- ⑧ Dolby Digital Indicator
- ⑨ dts Disc Indicator
- ⑩ 3D Sound Indicator
- ⑪ MP3 Disc Indicator
- ⑫ Disc type Indicator

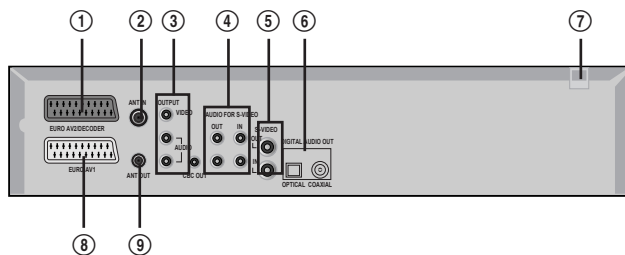
displays the currently loaded disc type (SVCD, VCD, DVD)
- ⑬ Repeat Playback

It indicates that the repeat playback function is currently being used.

ONE indicates that a chapter or a track is being repeatedly played back,

ALL indicates that a title or the entire contents of a disc is being repeatedly played back and A-B indicates that repeated playback between two specific points is taking place.
- ⑭ DVD Disc Operation
 - OPEN : Tray is opened
 - CLOSE : Tray is closed
 - LOAD : Disc is loaded
 - NO DISC : There is no disc in tray
 - Err DISC : Disc has some error
 - MENU : Menu screen is displayed
 - SETUP : Setup menu is displayed
 - CUE : Forward in DVD
 - REVIEW : Backward in DVD
 - REC : DVD : Recording in DVD

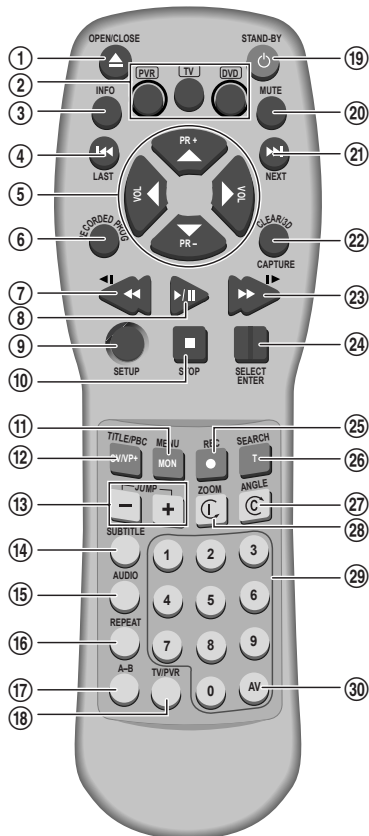
Rear panel



- ① EURO AV2/DECODER jack
 - ② Connection for the ANTENNA cable
 - ③ VIDEO/AUDIO OUTPUT jack
 - ④ AUDIO FOR S-VIDEO Input/Output jack
 - ⑤ S-VIDEO Input/Output jack
 - ⑥ Digital Output (OPTICAL, COAXIAL) Jack
 - ⑦ Power Cord
 - ⑧ Connection to TV
 - ⑨ ANT OUT
- Connection for the RF cable from TV

To enjoy DVD sound quality via a home cinema system, connect this jack to the amplifier or the unit embedded with the digital audio decoder. This is an output only for DVD audio.

Remote Control



- ① [DVD] OPEN/CLOSE
- ② [PVR] PVR select, [TV] TV select, [DVD] DVD select
- ③ [PVR, DVD] INFO bar
View the programme banner. To view the transport bar press it twice.
- ④ [PVR] LAST Clip, [DVD] LAST Skip
[PVR] View the previous recorded programme, [DVD] Move to a previous chapter or track
- ⑤ [PVR, DVD] Up/Down/Left/Right Direction, [TV, PVR] Programme +/-, [TV] Volume Controls
- ⑥ [PVR] Recorded Programmes List
View a list of recorded programmes.
- ⑦ [PVR, DVD] Rewind
Press up to five times to increase the speed in gradual stages.
x2 (x 1 press) → x4 (x 2 presses) → x8 (x 3 presses) → x16 (x 4 presses) → x32 (x 5 presses)
- ⑧ [PVR, DVD] PLAY/PAUSE
- ⑨ [PVR, DVD] SETUP
- ⑩ [PVR, DVD] STOP
- ⑪ [PVR] REC-MON, [DVD] MENU
- ⑫ [PVR] Show View /Video Plus (+), [DVD] TITLE/PBC
- ⑬ [PVR] JUMP -/+
Jump backwards 5 mins / Jump Forwards 5 mins
- ⑭ [DVD] SUBTITLE language select
- ⑮ [PVR] AUDIO select, [DVD] AUDIO language select
- ⑯ [DVD] REPEAT (Repeat current title or chapter in DVD while repeating current track or disc in VCD/CD)
- ⑰ [PVR, DVD] REPEAT a defined period from A to B
- ⑱ [PVR] TV/PVR button
- ⑲ [PVR, DVD, TV] STAND-BY button
- ⑳ [TV] MUTE button
- ㉑ [PVR] NEXT Clip, [DVD] NEXT Skip
[PVR] View the next recorded programme, [DVD] Move onto the next chapter or track
- ㉒ [PVR] CAPTURE, [DVD] CLEAR/3D

23 [PVR, DVD] Fast Forward

Press up to five times to increase the speed in gradual stages.

x2 (x 1 press) → x4 (x 2 presses) → x8 (x 3 presses) → x16 (x 4 presses) → x32 (x 5 presses)

24 [PVR] SELECT, [DVD] ENTER

25 [PVR] Record

To perform an Instant Record or a Record Until.

26 [PVR] Timer Recording, [DVD] SEARCH

27 [PVR] CM SKIP, [DVD] ANGLE

28 [PVR] Instant Replay, [DVD] ZOOM

29 [PVR, DVD, TV] Numbers buttons

To select a channel. For 2-digit channels, first press 0/-- (0, 1, 2 for Pr012).

30 [TV, PVR] AV button

Accessories

Remote Control



2 Batteries



RF cable



Audio/Video cable



Scart Cable



CBC Cable



Owner's Manual/
Warranty

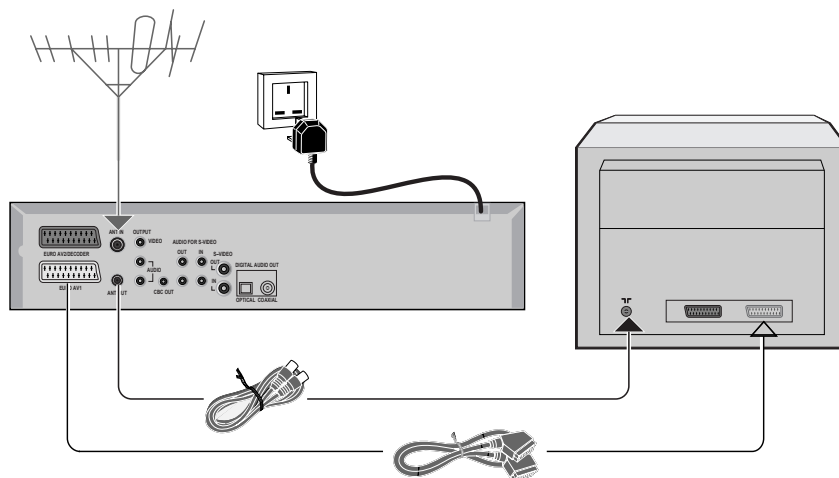


To purchase these accessories (with the exception of this owner's manual) and other non supplied parts, please contact your nearest dealer or service center.

Warning) Connect the CBC cable only when the power cable was unplugged.

Connections

Basic connection



- 1 Disconnect the aerial cable from your TV set and reconnect it to the ANT IN socket of the PVR/DVD.
- 2 Using the RF cable (supplied), connect the ANT OUT socket of the PVR/DVD to the aerial socket of the TV.
- 3 A SCART cable (one supplied with this set) will provide a superior connection between this appliance and the TV, making it easier to use, and improving both picture and sound quality. Connect the EURO AV1 socket of the PVR/DVD to the primary SCART socket of the TV. (This will be labeled AV1, EXT1, AUX1 etc, depending on the make of television.)
- 4 Using the mains lead, connect the appliance to a mains socket.

Warning) Connect the CBC cable only when the power cable was unplugged.

Other connection possibilities

The connections described above are the manufacturer's recommended method to connect this apparatus to your television. However if your TV set does not have a SCART socket , connect the PVR/DVD using one of the following two methods.

Video connection

Connect the *VIDEO OUT* socket of the PVR/DVD to the *VIDEO IN* socket of the TV set using a video cable (not supplied).

Audio connection

To obtain 6-channel multichannel sound, connect an appropriate audio amplifier to the *DIGITAL AUDIO OUT* coaxial socket of the PVR/DVD using a coaxial cable (not supplied), or to the *DIGITAL AUDIO OUT* optical socket of the PVR/DVD using an optical cable (not supplied).

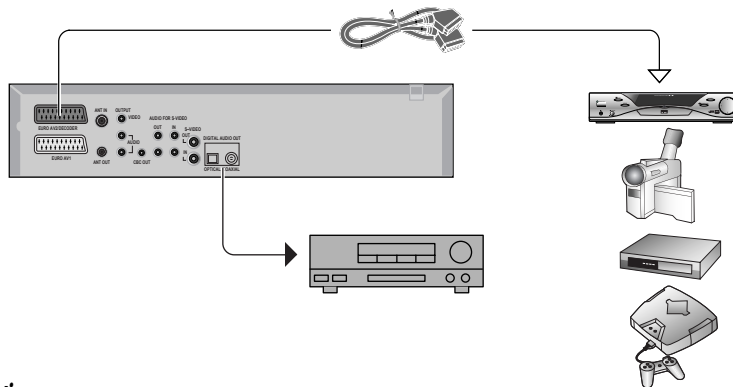
Alternatively, you can connect the *AUDIO OUT L* and *R* sockets of the PVR/DVD to the *AUDIO IN L* and *R* sockets of the TV using an audio cable (not supplied).

Other devices

Decoder, camcorder, satellite receiver, another DVD player, another video recorder, etc. (AV2 socket)

Connect the other device to the EURO AV2/DECODER jack using another SCART cable (only one has been supplied with this unit) : the video and audio information from this other device will loop through the AV sockets of this unit and can be displayed on your TV set.

Audio/video amplifier



INSTALLATION

Video connection

Connect your audio/video amplifier to the AV1 SCART socket of the PVR/DVD. You can also connect it to the VIDEO OUT socket of the PVR/DVD with a video cable (not supplied). You will get the best picture quality with the SCART socket.

Audio connection

For 6-channel multichannel sound, connect the amplifier to the DIGITAL AUDIO OUT coaxial socket of the PVR/DVD using a coaxial cable (not supplied), or to the DIGITAL AUDIO OUT optical socket of the PVR/DVD using an optical cable (not supplied).

You can also connect your audio/video amplifier to the AUDIO OUT L and R sockets of the PVR/DVD using an audio cable (not supplied).

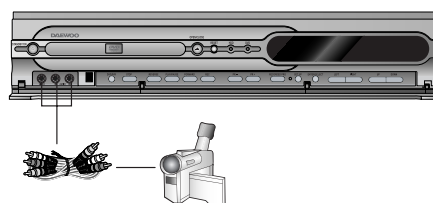
You will get the best sound quality with a connection via the DIGITAL AUDIO OUT socket.

Stereo HiFi system

Connect your HiFi system to the DIGITAL AUDIO OUT socket of the DVD/VIDEO, or to the DIGITAL AUDIO OUT optical socket of the PVR/DVD, or to the AUDIO OUT L and R sockets of the PVR/DVD.

Camcorder (AV-F socket)

Connect your camcorder to the AUDIO L (left), AUDIO R (right) and VIDEO sockets located at the front of the PVR/DVD. Select the AV-F input on the PVR/DVD by pressing the AV key.



Caution PVR does not record when there is Macro Vision in Video input signal.

Programme the Remote for a TV

- 1 Turn on the TV.
- 2 Point the PVR's remote at the TV.
- 3 Holding the TV button down, press the two numbers listed below that is relevant to your brand of TV.
- 4 After releasing the buttons, check that the remote is programmed to operate your TV.
- 5 If the above does not work, repeat steps 2 - 4 using one of the alternative 2 digit codes.

NO	Maker (Brand) Name	Code Number (2 digit) List	NO	Maker (Brand) Name	Code Number (2 digit) List
1	AIWA	73	38	MIVAR	26 64 76
2	AKAI	02 07 30 67	39	NEC	66
3	AKARI	70	40	NOKIA	30 32 40 78 80
4	BANG& OLUFSEN	82	41	NORDMENDE	02 23 47 50 56
5	BLAUPUNKT	27 28	42	ORION	02 37 40
6	BRANDT	23 50 56	43	PANASONIC	03 33 40 43
7	BRIONVEGA	82	44	PHILIPS	02 20 34 37 82
8	BLUESKY	02	45	PHONOLA	02 20 37 82
9	BUSH	34 37	46	PIONEER	23 40 72
10	CGE	64	47	POLYTRON	02 37 74
11	CONTINENTAL EDISON	42	48	PYE	34 37
12	CURTIS	37	49	RADIOLA	02 20 34 37 82
13	DAEWOO	02 22 65	50	RADIOMARELLI	82
14	DESMET	37	51	REX	40
15	DUAL	34 37	52	SABA	23 40 47 50 56 82
16	ELBE	25 27 40	53	SALORA	40 80
17	ELEMIS	37	54	SAMSUNG	02 06 08 37 38 48 54
18	FERGUSON	23 42 47 50 56 57 58	55	SANYO	06 62
19	FINLUX	02 63 77 82	56	SANSUI	37
20	FISHER	67	57	SBR	34
21	FORMENTI	82	58	SCHAUB-LORENZ	02 40 64
22	FUNAI	05	59	SCHNEIDER	02 07 20 34 37 82
23	GOLDSTAR(LG)	02 37 68	60	SELECO	34 40 78
24	GOODMANS	34 37	61	SHARP	24 62
25	GRUNDIG	27 28 63 64	62	SIEMENS	27 28
26	HITACHI	44 37 52	63	SINGER	23 82
27	IMPERIAL	64	64	SINUDYNE	34 37 82
28	INNO HIT	37	65	SONITRON	67
29	IRRADIO	07	66	SONY	60 62 83
30	ITT	78	67	TELEAVIA	02 23 50
31	JVC	04 07 45 46 53	68	TELEFUNKEN	02 23 47 50 55 56
32	KNEISSEL	02 22	69	THOMSON	02 23 47 50 56
33	LOEWE	02 34	70	TOSHIBA	35 62 63 64
34	LOEWE OPTA	02 82	71	WEGA	82
35	LUXOR	40	72	WHITE WESTINGHOUSE	34 37
36	METZ	27 37 46 82	73	YOKAN	02 22
37	mitsubishi	02 34 62 75	74	YOKO	02

Initial Setup menu in PVR

Navigation Keys

- If you want to perform any function, you must ensure the PVR is switched on. To access the PVR, press the [PVR] button on the remote control.
- All menus use the [▲▼◀▶] keys on the remote control.
- To confirm, press the [SELECT] button on the remote control.
- To Exit, press the [Setup] button on the remote control.

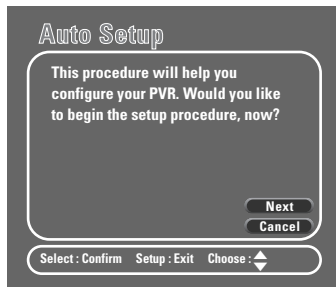
Setup Menu

Before you do anything with your PVR/DVD combo please ensure that you have read and fully understand this chapter.

Initial Setup Menu

POWER ON

When you first plug in and power up the PVR/DVD Combo, the product will begin the automatic installation process. If you do not want to install the product, select the *Cancel* option.



- To access the PVR, press the [PVR] button on the Remote Control.
- To Choose, use the [▲▼] Keys on the remote control.
- To continue, highlight *Next* and press the [SELECT] key on the remote control.

To cancel, highlight the *Cancel* option and press [SELECT] on the remote control.

To exit, press [SETUP] on the remote control.

LANGUAGE SELECTION

If you continue Auto Installation, the next screen will ask you to select your language.



- Use the [◀▶] keys to select the language.
- Use the [▲▼] keys to toggle between the Next /Cancel options.
- To confirm, highlight *Next* and press the [SELECT] button on the remote control.

To cancel, highlight the *Cancel* option and press [SELECT] on the remote control.

To exit, press [SETUP] on the remote control.

COUNTRY SELECT

The next stage is to select the country in which you are currently residing.

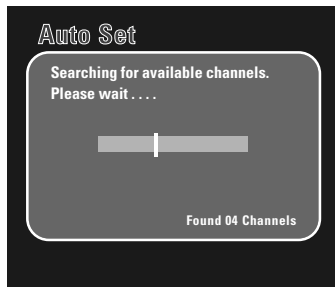


- Use the [**◀ ▶**] keys to select your country.
- Use the [**▲ ▼**] keys to toggle between the Next/ Cancel options
- If you wish to proceed, highlight *Next* and press the [SELECT] button on the remote control.

To cancel, highlight the Cancel option and press [SELECT] on the remote control.

To exit, press [SETUP] on the remote control.

AUTO CHANNEL SEARCH



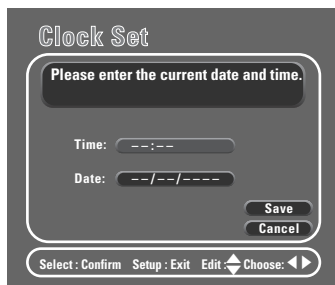
Once you have selected your language and country, the PVR/DVD combo will begin to automatically search for television channels.

This may take a short while.

The PVR/DVD combo will search for and store all the channels it finds.

CLOCK SET

To perform timed recordings it is important that the internal clock is set to the correct time.



- Use the [**◀ ▶**] keys to toggle between hours/mins.
- Use the [**◀ ▶**] keys to toggle between Time and Date.
- Use the [**◀ ▶**] keys to toggle between Date/Month/Year.
- Use the [**▲ ▼**] Keys to change the Date/Time.
- Use the [**◀ ▶**] keys to toggle between Save/Cancel.
- To Save, highlight *Save* and press [SELECT] on the remote control.

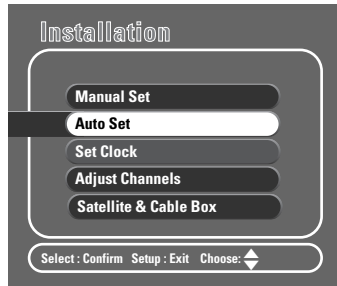
To cancel, highlight the Cancel option and press [SELECT] on the remote control.

To exit, press [SETUP] on the remote control.

Installation Menu

Installation menu

This menu will allow you to make further adjustments to the PVR after initial set-up.



- Press the [PVR] button on the remote control.
- Press the [SETUP] button on the remote control.
- Scroll through the options using the [▲▼] keys on the remote control.
- To Confirm a selection, press the [SELECT] Button on the remote control.

To exit, press [SETUP] on the remote control.

Manual Set - Manually tune in new television channels.

Auto Set - Automatically tune in new television channels.

Set Clock - Set the Clock.

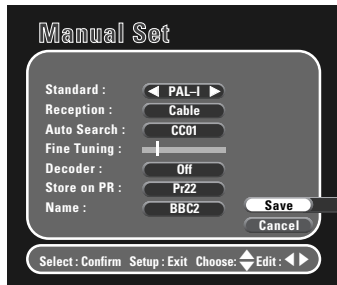
Adjust Channel - allows you to change the order of the television channels.

Satellite and Cable Box - allows you to configure your external satellite or cable box so that the PVR can receive its television channels.

PVR PART

Manual Set

This may be useful if you move house, new television channels become available or if you wish to rearrange the existing memorized channels.



Manual Set Screen

- Use the [◀ ▶] keys to choose your settings
- This menu is superimposed on the television picture so that you can adjust the various settings until you are happy with the picture and the setup.
- It is important to ensure that all settings are correct.

To exit, press [SETUP] on the remote control.

Standard - this refers to the type of signal being received. If unsure, the rear of the television set will probably have this information.

Reception - Refers to how the television signal is being received, either via an external aerial for terrestrial reception or through a satellite or CABLE decoder.

Auto Search - allows you to input a real channel number that the unit will automatically tune it in.

Fine Tuning - Adjust the picture quality.

Decoder - turn it off if you want to receive your picture through a cable or satellite box rather than the PVR/DVD combo.

Store on PR - Select the channel number you want to store the television channel on.

Name - Input the name of the channel.

Auto Set

This allows you to reconfigure your unit in a similar way as manual set except rather than you choosing various settings the unit will do choose the optimum settings automatically.



Country Select

- Use the [◀ ▶] keys to select the county.
France, Finland, Germany, Greece, Italy, Luxembourg, Netherlands, Norway, Spain, Sweden, Switzerland, Turkey, UK(&Ireland), Belgium, Denmark, OTHERS (other countries not mentioned)
- Use the [▲ ▼] keys to toggle between the Next/ Cancel options. If you wish to proceed, highlight *Next* and press the [SELECT] button on the remote control.

To cancel, highlight the Cancel option and press [SELECT] on the remote control. To exit, press [SETUP] on the remote control.



Channel Search

The unit will start to automatically search for new channels: please be patient as this may take a few minutes.



Channel Sorting

The unit will then begin sorting the channels.

- *If the PVR is connected to a television with the AV link facility, the channels within the TV settings will be downloaded automatically.*



Set Clock

- Use the [◀ ▶] keys to toggle between hours/mins.
- Use the [◀ ▶] keys to toggle between Time and Date.
- Use the [◀ ▶] keys to toggle between Date/Month/Year.
- Use the [▲ ▼] keys to change the Date/Time.
- Use the [◀ ▶] keys to toggle between Save/Cancel.
- To Save, highlight *Save* option and press [SELECT] on the remote control.

To cancel, highlight the Cancel option and press [SELECT] on the remote control.

To exit, press [SETUP] on the remote control.

Set Clock



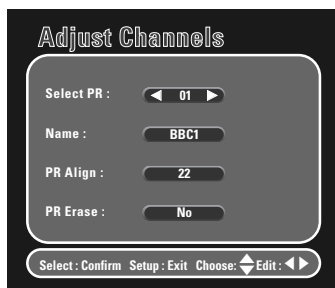
- Use the [◀ ▶] keys to toggle between hours/mins.
- Use the [◀ ▶] keys to toggle between Time and Date.
- Use the [◀ ▶] keys to toggle between Date/Month/Year.
- Use the [▲ ▼] keys to change the Date/Time.
- Use the [◀ ▶] keys to toggle between Save/Cancel.
- To Save, highlight *Save* option and press [SELECT] on the remote control.

To cancel, highlight the Cancel option and press [SELECT] on the remote control.

To exit, press [SETUP] on the remote control.

Adjust Channels

Adjust channels allows you to order your television channels in a way which may be more convenient. This will stop you having to scroll up and down to reach your favorite channels



- Select option using the [▲ ▼] keys on the remote control.
- Change Values using the [▲ ▼] keys on the remote control.
- Toggle using the [◀ ▶] keys on the remote control.
- To confirm the changes and exit, press [SETUP] button on the remote control.

Select PR - Select the TV Channel direct channel entry number. E.g. 01

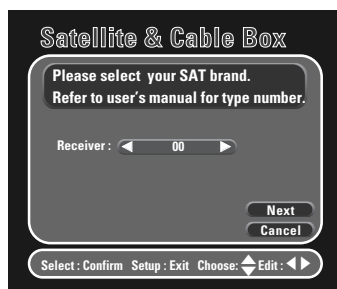
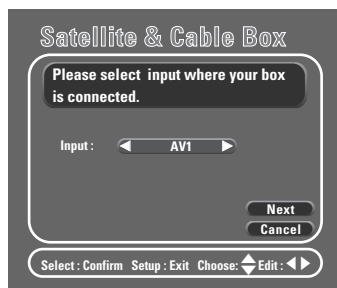
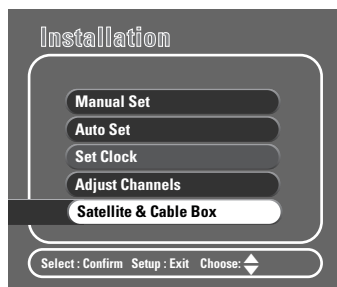
Name - Select a name for the television channel. E.g. BBC2

Programme Align - Select new direct channel entry number. E.g. 06

Programme Erase - Select whether or not to delete a television channel.

Satellite & Cable Box

This function will allow you to connect your cable or satellite decoder to the PVR.



- Press the [PVR] button on your remote control.
- Press the [SETUP] button on your remote control.
- Using the [▲▼] keys on the remote control highlight Installation.
- Confirm by pressing [SELECT] Key on the Remote Control.
- Using the [▲▼] keys on the remote control, highlight Satellite and Cable Box.
- To confirm, press [SELECT] on the remote control.

- Using the [◀▶] keys on the remote control, select the numeric code belonging to the brand of the satellite decoder. If you are unsure, refer to the table on Page 21 or the decoder's user manual.
- If you wish to proceed, highlight *Next* and press the [SELECT] button on the remote control.

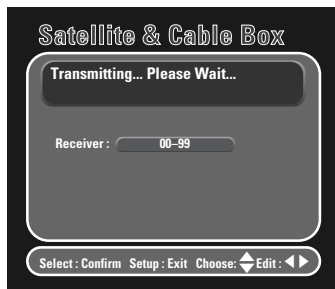
*To cancel, use the [▲▼] to highlight Cancel.
To exit, press [SETUP] on the remote control.*

- Select your decoder using the [◀▶] keys on the remote control.
- To confirm your choice, highlight *Next* and press the [SELECT] button on the remote control.

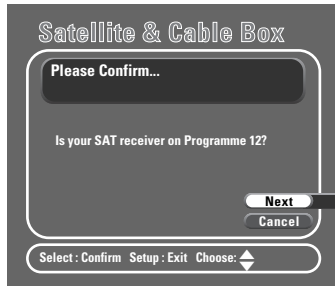
*To cancel, highlight the Cancel option and press [SELECT] on the remote control.
To exit, press [SETUP] on the remote control.*

- Using the [◀▶] keys on the remote control, select the numeric Satellite brand.
If you are unsure, check your Satellite Box's user manual.
- To confirm your choice, highlight *Next* and press the [SELECT] button on the remote control.

*To cancel, highlight the Cancel option and press [SELECT] on the remote control.
To exit, press [SETUP] on the remote control.*



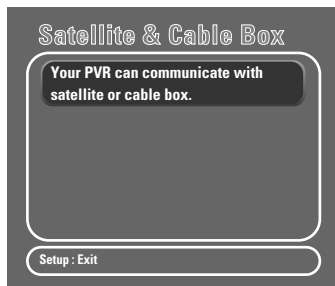
The unit will begin initializing the configuration so you may have to wait a few minutes.



- Once the unit has completed initialization, you will be asked to confirm the channel you have tuned your Satellite or Cable box into to.
- Using the [▲▼] keys toggle between Next and Cancel.
- To continue, highlight Next and press the [SELECT] key on the remote control.

To cancel, highlight the Cancel option and press [SELECT] on the remote control.

To exit, press [SETUP] on the remote control.



The confirmation screen will appear, when your satellite box can communicate with the PVR.

Satellite and Cable Box code table

MANUFACTURER	MODEL	CODE
AKAI	SX1000	13
ALBA	333,550,555,666,SAT200,SAT300,SAT400,SAT500 ISR7000	01 01-13
ALDES		02
ALLSAT		04
AMSTRAD	SAT100,SAT200,SAT300,SAT520,SR150,SRD400 SRD500,SRD510,SRD520,SRD540,SRD545,SRD550 SRD600,SRD600E,SRD650E,SRD700,SRD2000 SRX20016Ch,SRX20048Ch,SRX300,SRX310,SRX320 SRX300,SRX340,SRX345,SRX350,SRX360	03
ARMSTRONG		06
BEST		07
B.TELECOM	SVS200 SVS300	08 13
BUSH	SR2000 SR3000 IRD155	01 19 09
CANAL SATELLITE NUMERIQUE(1)		20
CAMBRIDGE	ARD200,RD480,RD 480EXTRA(2) RX580S,ARX200,ARK200 SYSTEM	13 13 11
CHANNEL MASTER		11
CHAPARRAL		18
CITIVISION		10
CITYCOM	CCS150,CCS140,CCS190	26
COLUMBUS		35
CONNECTIONS		14
DISKEXPRESS		07
DNT		15
DRAKE		16
EXATOR	EXA111N	37
FERGUSON	SRA1,SRD6,SAP5S,SRV1,SRD5,SRD16,FSP10	12
FINLUX	TV5000(3)	34
FUBA	ODE540,ODE543,ODE545(4) ODE550,ODE622,ODE642	37 35
GOODMANS	ST700	19
GRUNDIG	GRD3000 GRD2000,GRD150,GRD200,GRD250,GRD280 GRD300,STR-1,STR211,STR212,STR311,STR312 STR315,STR322,STR511,STR512,CSR10	19-21 21
HIRSCHMANIN		22
HITACHI	SR2070D,SR1050D	19
JOHANSSON		25
JVC	TU-AD1000	08 19
KATHREIN	UFD41,UFD70,UFD89,UFD90,UFD91,UFD92,UFD93 UFD94,UFD95,UFD200,UFD210,UFD211,UFD220 UFD230,UFD232	26
MANHATTAN	7700	25
MASPRO	SRE90R,SRE90S,SRE250S,SRE350	27
MATSUI	RD600	21
MIMTECH	Nimbus 48C(5)	28
MINERVA	MSR200,MSR250,SAT500,SAT5000	21
MITSUBISHI	SSTPB10,ST-PB10	19
MORGAN		06
NAGAI		29
NEC	3022,4012	30
NETWORK		31
NIKKO		32
NOKIA	5918(6),1100(6),1500(6),1600,1602(6),1700(6),1800 2200,PRD900(6),SAT750,SAT1800,SAT800+,SAT820S SAT1201,SAT1202,SAT1202E,SAT1202T,SAT2202 SAT8003CS	23
NORDMENDE	SR120ST,SR990IMC,SR600 SRD1000	33 19
OXFORD		08
ORBITECH	X100,X100PLUS	47

MANUFACTURER	MODEL	CODE
PACE	APOLLO,MSS100,MSS200,MSS300/1,MSS500/1 MSS 1000,PRD800,PRD 800 IRD,PRD 800+ PRD690,PRD,PRD900,PRD900,PRD900+ PSR800,PSR800+,PSR900,SBR99,SS-800,SS-9000 SS-9000,IRD,SS-9200,SS-9200,IRD,SS-9210,IRD SSR806,SSR902,SSR906	19
PALADIUM	LC200E	21
PALCOM	ML-200,ML-72002,SL-300,SL-4000RP,SL-650R SL-750R,SL-7900RP,SL-8000RP	35
PALSAT		29
PANASONIC	TUS200D TUSD250	36 19
PHILIPS	STU330(6),STU350(6),STU430,STU560,STU660 STU801(6),STU802,STU804(6),STU812(6),STU824 STU904,STU901,STU909,STU1400,STU3310(7)	20
PROSAT		19
QUADRAL		38
REDIFFUSION		39
RFT	SAT1000,SAT1100,SAT1200,SAT1500,SAT2000 STASSFURT SAT1(6) SAT3000	21 26-20
SABA	ASR315 SSR290,SSR299,SSR399,SSR420,SSR430,SSR500 SSR880,STR200 SSR700(8)	49 40 02-05
SABRE		58
SAKURA	SR800ER,SR8685	41
SALORA		5902 23
SAMSUNG/JUPITER		42
SEEMANS		43
SENTRA		44
SONY	SAT300,SAT301	46
SUNSTAR		06
TATUNG		32
TECHNISAT	VC2001,VC2002	48
TELECS		19
TELEDIREKT		43
TELEFUNKEN	ARD1-K,SR950Z,SR900Z,SR1050Z,SR1050V SR1000Z	49 19
TELEPIU		59
TELEVES		56
THOMSON	TSR610V,TSR710VT ASR11T	50 50 49
THORN	SAT120,SAT99	58
TOSHIBA	TS540	51 19
TPS		67
UNIDEN		7007 52
UNIVERSUM	LC200E	21
WINERSAT		25
WISI	OR31,OR48,OR49,OR52,OR53,OR54,OR55 OR58,OR59	53
WOSLEY(TANDY)		54

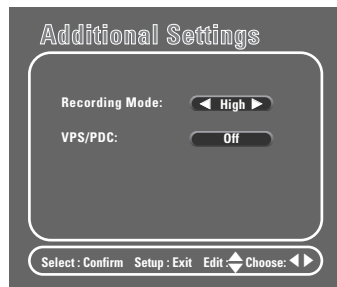
CABLE BOX

MANUFACTURER	CODE
CABLESTAR	60
CABLETIME	60
GI	61
IMPULSE	61
JERROLD	61
MACOM	62
NOOS	20-67
OAK	63
SCIENTIFIC ATLANTA	64
VISIONPASS	20-67
VIDEOTRON	66
VIDEOWAY	66

PVR PART

Additional Settings

The Additional Settings menu will allow you to select a default recording quality for all future timer and Show View / Video Plus(+) recordings. You can change this setting for specific recordings. (See Set a Recording section). PDC (Programme Delivery Control) will provide a buffer, so that if a programme overruns, the PVR will continue to record until it finishes: PDC is broadcast with most UK channels, but not all.



- Use the [▲▼] keys to toggle between Recording Mode/PDC/Save/Cancel.
- Select recording mode using the [◀▶] keys.
- Select PDC On/Off using the [◀▶] keys.
- To confirm the changes and exit, press [SETUP] button on the remote control.

System Information Screen

This screen is not interactive. It provides information on the remaining disk space in all recording quality modes. It's a useful screen to refer to before setting a timed recording.



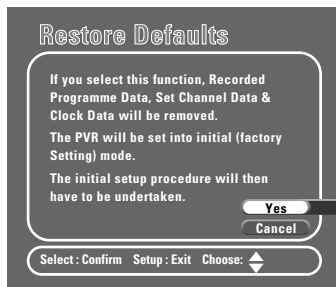
To exit, press [SETUP] on the remote control.

Restore Defaults settings

Offers you the opportunity to revert to original factory settings. All information stored in the unit, including recorded material, television channel settings and set preferences will be erased.

It is useful if

1. You move country
2. You want to re-configure your box.
3. You move house.



- Press the Set- Up button on the Remote Control
- Scroll using the ▼ key until system information is highlighted.
- To confirm press Select button on the remote control.
- To restore the default setting, highlight Yes and press the [SELECT] button on your remote control.
- A final superimposed menu will then appear allowing you to toggle between the YES and NO options using the [◀ ▶] keys on the remote control.

To cancel, highlight the Cancel option and press [SELECT] on the remote control.

To exit, press [SETUP] on the remote control.

Preferences

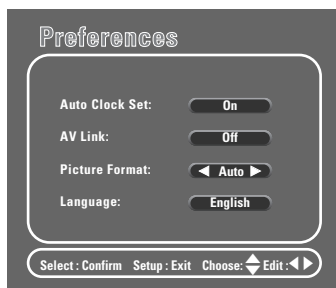
This menu will allow you to set preferences for:

Auto Clock – automatically changes with Day light saving

AV Link – Will enable you to download television channels from another source directly into the PVR

Picture Format – Change according to your Television.

Language – Set language for Subtitles.



- Use the [▲▼] keys to toggle between options.
- Use the [◀▶] Keys to toggle between the settings.
- To confirm the changes and exit, press [SETUP] button on the remote control.

About Recorded Programmes

Watching a recorded programme

To select a previously recorded programme to watch, press [RECORDED PROG] button on the remote control. Now in the recorded programs list the recordings that will be auto deleted in the very near future are shown against a yellow icon.



Play

- To select your programme, scroll through the recorded programmes list using the [▲▼] keys on the remote control.
- To confirm, press the [SELECT] button on the remote control.
- A submenu will appear.
- To Play the programme, highlight the *Play* option and press [SELECT] on the remote control.

Delete

- To delete a recording, highlight the *Delete* option and press the [SELECT] button on the remote control
- A float over screen will appear asking you to confirm the deletion.
- Using the [◀▶] keys to toggle between Yes/No.
- To delete, highlight *Yes* and press [SELECT] on the remote control.
- To cancel, highlight *No* and press [SELECT] on the remote control.

Lock&Unlock

- To lock a programme, highlight the *Lock* option and confirm by pressing [SELECT] on the remote control.
- Locking a programme will prevent it being erased by auto delete.
- To unlock, highlight the *unlock* option and press [SELECT] on the remote control.

Video Edit

- To edit a programme video, highlight the *Video Edit* option and press the [SELECT] button on the remote control.
- A submenu will appear.

To exit, press [SETUP] on the remote control.

Edit Title of recorded programmes

- Press [RECORDED PROG] button on the remote control.
- Select the programme using the [▲▼] keys on the remote control.
- To confirm selection, press the [SELECT] button on the remote control.
- Use the [▲▼] keys to toggle through options in the sub menu.
- To confirm an *EDIT Title*, highlight the option and press the [SELECT] button on the remote control.
- To navigate the Keyboard, use the [▲▼] keys to go up and down.
- Use the [◀▶] keys to move left and right.
- To clear the existing title, highlight the *Clear* button and press the [SELECT] button on the remote control.
- To input a new title, navigate the keyboard and press the [SELECT] button to confirm a letter choice.
- To add a space between words, highlight the *Space* button and press [SELECT] on the remote control.
- To Delete a letter, highlight *Delete* and press the [SELECT] button on the remote control.
- To save the new programme title, highlight *Save* and press the [SELECT] button on the remote control.

To exit, press [SETUP] on the remote control.

Video Edit

Video Edit enables you to edit the television programmes stored on the hard disk.

"Partial delete" enables the user to delete up to eight different sections of a recorded Programme.

"Divide" enables the viewer to separate a single recording into as many as eight separate recordings.

"Combine" enables the user to merge separate recordings together.

- Once you have selected your recorded programme use the [▲▼] keys to select from the 3 possible video edit functions or exit.
- The original recording used for any editing function is not affected and remains in the recorded programme list. Thus it is possible to repeat the editing if you change your mind and the same recording can be used for multiple editing and different forms of editing.
- Live buffering, recording or timer records are not disrupted by editing.

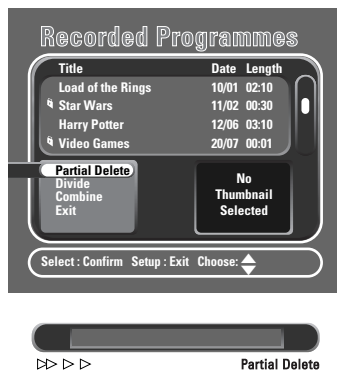
Note. The recorder has an advanced disk management function that avoids extra disk space being used for edited recordings while the original(s) still remain on the disk. Thus it is possible to make many edited recordings without wasting any disk space.

Partial Delete



- Press the [PVR] Button on the remote control.
- Press [RECORDED PROG] button on the remote control.
- Using the [▲▼] Keys on the remote control, select the programme that you wish to edit.
- To confirm, press [SELECT] button on the remote control.
- Select Video Edit using the [▲▼] keys on the remote control.
- To confirm, press [SELECT] button on the remote control. You will then be taken to the Video Edit Screen.
- Using the [▲▼] keys, select from the four possible Video Edit options.
- To confirm your choice, press [SELECT] on the remote control.

.....
To exit, press [SETUP] on the remote control.



- Partial Delete will enable you to erase specific parts of a recorded programme. e.g you can use it to remove advertisements or eliminate some parts of a movie unsuitable for younger viewers.
- When selecting positions to be edited, it is possible to use the standard trick mode functions. However, during editing just the major frames are displayed, representing valid editing start and end positions.
- During the partial delete you may fast forward, rewind, single step and pause.
- Selecting partial delete will take you to the Selected Recording. The first frame of the recording is displayed in [PAUSE] Mode.
- Press either [PLAY] or [FF] to start navigating through the recording.
- Sections to be deleted are marked by pressing the [SELECT] key. Marked sections are shown as shaded areas in the transport bar.
- The white line on the transport bar indicates your current location in the recorded programme.
- To confirm or cancel the partial delete, use the [▲▼] buttons on the remote control to highlight *Save* or *Cancel*.
- Confirm your choice by pressing [SELECT] button on the remote control.
- During the partial delete you may fast forward, rewind, single step and pause.

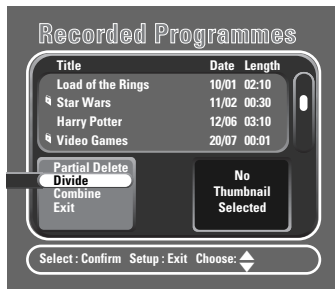
Divide



- Press the [PVR] Button on the remote control.
- Press [RECORDED PROG] button on the remote control.
- Using the [▲▼] Keys on the remote control, select the programme that you wish to edit.
- To confirm, press [SELECT] button on the remote control.
- Select Video Edit using the [▲▼] keys on the remote control.
- To confirm, press [SELECT] button on the remote control. You will then be taken to the Video Edit Screen.

- Using the [▲▼] keys, select from the four possible Video Edit options.
- To confirm your choice, press [SELECT] on the remote control.

To exit, press [SETUP] on the remote control.



- Divide is used to extract and keep portions of interest as individual recordings. For example you can select the goals from a soccer match or your favorite pop video from a TV show.
- Selecting divide will display the first frame of the recording in [PAUSE] Mode.
- Press either [PLAY] or [FF] to start navigating through the recording.
- Sections to be kept are marked by pressing the [SELECT] key. Marked sections are shown as shaded areas in the transport bar.
- To confirm or cancel Divide, use the [▲▼] buttons on the remote control to highlight *Save* or *Cancel*.
- Confirm your choice by pressing [SELECT] button on the remote control.
- A programme can be divided a maximum of eight times.

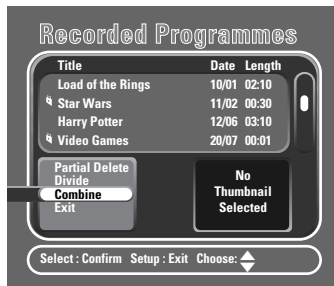
Combine



- Press the [PVR] Button on the remote control.
- Press [RECORDED PROG] button on the remote control.
- Using the [▲▼] Keys on the remote control, select the programme that you wish to edit.
- To confirm, press [SELECT] button on the remote control.
- Select Video Edit using the [▲▼] keys on the remote control.
- To confirm, press [SELECT] button on the remote control. You will then be taken to the Video Edit Screen.

- Using the [▲▼] keys, select from the four possible Video Edit options.
- To confirm your choice, press [SELECT] on the remote control.

To exit, press [SETUP] on the remote control.



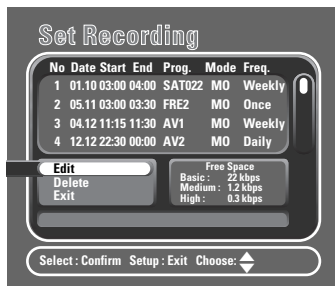
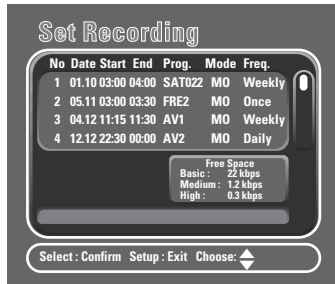
- The title of the programme you have selected to combine then appears in a box at the bottom of the screen
- Use the [▲▼] keys to select additional recorded programme(s) to be combined.
- To Confirm press the [SELECT] button on the remote control.
- A maximum of 8 recordings can be chosen.
- At any time during selection use the [◀▶] keys to toggle between the [Combine/ Cancel] buttons, the main programme list and the smaller list of programmes currently selected for combining.
- If you make a mistake at any time it is possible to delete a choice from the list by selection using the [◀▶] keys to highlight the combine list and pressing [SELECT] to delete.
- When you have chosen all the programmes you want to combine use the [◀▶] keys to select the [Combine/ Cancel] buttons
- Use the [▲▼] to Highlight Combine or Cancel
- Press the [SELECT] Key to confirm your choice.



Set Recording

Manual Set

There are two different ways to set a recording.



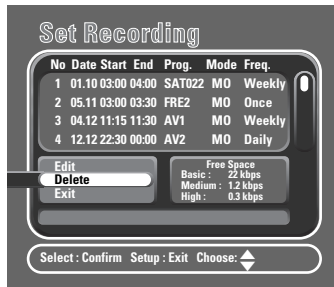
- To access the Set Recording Menu, press [T] button on the remote control.
There are eight slots for set recordings.
- To select a slot scroll up/down using the [▲▼] keys on the remote control.
- To confirm selection, press [SELECT] button on the remote control.
- To set or edit a recording, highlight the *Edit* option in the submenu and press [SELECT] button.
- The date, the start time, the end time, programme number, Mode and frequency of recording can all be input and edited.
- When choosing the recording quality mode, refer to the Free Space and select your recording quality option based on the amount of storage space available in each of the recording quality options.
- To toggle left/right, use the [◀▶] keys on the remote control.
- To change any of the options, use the [▲▼] keys on the remote control.
- To Save, highlight *Save* and confirm by pressing [SELECT] on the remote control.
- To cancel, highlight *Cancel* and confirm by pressing [SELECT] on the remote control.

To exit, press [SETUP] on the remote control.

Warning)

After the electricity failure, recording files will be lost. The important data on HDD should be backed up to separated storage.

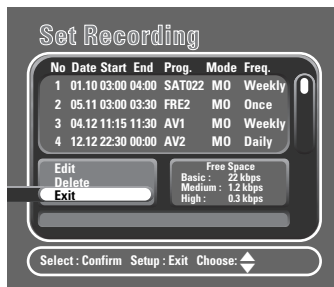
Delete a recording



- Select the programme you want to delete using the [▲▼] keys on the remote control.
- Once the programme is selected, use the [▲▼] keys on the remote control to highlight *Delete*.
- To confirm Delete, press [SELECT] button on the remote control.
- A final superimposed menu will appear and allow you to toggle between the Yes and No options using the [◀▶] keys on the remote control.
- To confirm your final selection, press [SELECT] button on the remote control.

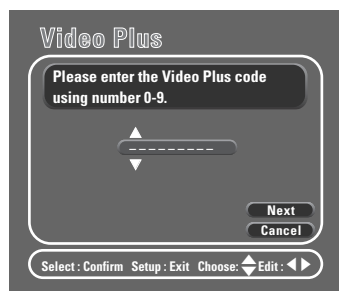
To exit, press [SETUP] on the remote control.

Performing multiple tasks



- To perform multiple tasks in the menu, Highlight *Exit* and press [SELECT] key on the remote control.
- This will allow you to re-access the set recording list.

Show View / Video Plus(+) recording



- To access a timer record, press the [SV/VP+] button on the remote control.
- You will need to have the Videoplus or Show View code (available from TV listings) with you.
- To enter the code, press numbers 0-9 keys on the remote control.
- Use the [◀ ▶] keys on the remote control to move left and right.
- Toggle between Next /Cancel using the [▲ ▼] keys on the remote control.
- To confirm, press [SELECT] button on the remote control.
- Selection will bring you to the Set Recording List where you will have the choice of editing anything about the programme that you wish to change, following the same procedure as outlined earlier.

.....
To exit, press [SETUP] on the remote control.

Record a television programme

One Touch Recording

This feature will allow you to record a programme you are currently watching without setting the timer. The recording will continue until you press [STOP] button on the remote control or the unit runs out of available disk space.



- Press [PVR] button.
- Press [REC] button on the remote control.
- Press [STOP] button when you want to finish recording.

- The transport bar will be coloured red to indicate you are in recording mode.
- The vertical white line will indicate your current position in a recording.
- You can play and Timeshift recorded material whilst the programme is still recording.
- The bar will rescale itself according the length of the recording.

Warning)

After the electricity failure, recording files will be lost. The important data on HDD should be backed up to separated storage.

Record Until

This feature will allow you to record live television for a specified amount of time after which the PVR will automatically power- off. The Recording can be between 30 mins and 10 hours in length although this will be dependent on the amount of free disk space you have. You can increase the length of recording in 30-minute increments. The vertical white line will indicate your position within the recording.



- Select the channel you want to record.
- Press [PVR] button on the remote control.
- Press [REC] button until the Record info bar appears on the screen.
- Further presses of the [REC] button will increase the recording time by thirty minute sections each time. e.g press the record button an additional two times to set the unit to record for 1 hour.
- Recording times are a minimum of 30 mins and a maximum of 10 hours.

- The length of recording will depend on the disk space available on the PVR.
- The time on the left hand side indicates the start time of the recording.
- The time on the right hand side will indicate the end time of the recording.
- To stop the recording at anytime press the [STOP] button on the remote control.
- You can PLAY and Timeshift the recording whilst the recording is still in progress.

Information Bars

There are two information bars. The bar that appears at the top of the screen is the programme banner and by pressing the [INFO] button on the remote control will show you what you are watching.



11/12 (Mon) 12:22 PR01 BBC1 Stereo

- Press [PVR] button on the remote control.
- Press [INFO] button once to access the info bar.
- If the bar is *green*, you are in *live television* mode.
- The bar will display "The Date / The Day / The Time / The Channel / Audio Selection".



11/12 (Mon) 12:22 PR01 BBC1 Stereo Medium

- If the bar is *red*, you are in *recording* mode.
- The bar will display "The Date / The Day / The Time / The Channel / Audio Selection / Recording Quality".



11/12 (Mon) 12:22 Return of the Jedi

- If the bar is *yellow*, you are *playing back* a recorded programme.
- The bar will display "The Date / The Day / The Time / The title of the recording".

Pressing the [INFO] button twice will allow you to view the transport bar at the bottom of the screen. This bar will help you to keep track of where you are in a programme. The green portion of the bar is a graphic indication of how much information has been stored. Thus in live television the rightmost edge of the green bar will indicate the end of recorded material and the start of what is currently being played live.

Live Picture



01:00 02:00

- If the bar is coloured green, you are in live television mode and the stored information will only be available temporarily.
- If you change channels, the buffer will clear and material on the new channel will be stored.
- The buffer will store material for a maximum of one hour, before it will refresh, erasing the oldest unlocked material, replacing it with the new material.
- If the buffer is full i.e. the info bar is totally green, you will have one hour stored material.
- If you pause the television broadcast, the buffer will continue to store the live stream.

- The info bar is just a visual indication of how much information you have recorded on your hard disk.

- The Vertical White Line is a visual indication of your current position in a programme.

- An icon representing any play function you are using will appear below the transport bar.

- If you pause, play etc the transport bar will immediately appear.

Guide and Warning Messages

The following is a list of guide messages that may appear on the screen.

You have entered the wrong data please re-confirm it.

You have entered the wrong data. Make sure the data you have entered is correct. Go back and re enter data.

For timer recording the clock must be set

To record anything on the PVR it is important to set the clock. If you have not done so go to the Set Up menu and the Clock Set screen.

**Overlap
The new recording conflicts with others already set**

In the same way a VCR cannot record two simultaneous programmes, this unit will display this message to show that an overlap exists.

Go to the Set recording Screen and delete one of the recordings. If you do not delete the unit will automatically record the timer recording which was set first.

A programme is currently being recorded. This will stop the recording. Are you sure?

If you want to switch the unit off and something is currently being recorded, the unit will display this warning.

This programme is locked. Please unlock it if you really want to delete it !

If you are trying to delete a programme that you have previously locked, you will have to unlock it before it is possible to delete it.

Do you really want to delete it?

If you are deleting a recording.

Do you want to restore all the defaults settings?

If you are restoring default settings.

There is no more space left on the disk. Please, delete some previously recorded programmes

If you try to record a programme and there is not enough space on the disk this message will appear. You need to go to the Recorded Programmes list and delete a recording to free up some space. If you do not wish to delete any recordings you will not be able to record the programme.

Guide and Warning Messages

No set recording available please remove a set recording in advance.

You do not have enough disk space to perform a new set recording. To continue delete recordings until there is enough free disk space.

A programme is currently being recorded. To change channel, you have to stop recording.

The PVR can only record the channel it is tuned to and this message will be displayed if the user tries to change the channel. Changing the channel will stop the recording : alternatively use the TV controls to view an alternative channel.

Hard disk space insufficient. Cannot complete task. The oldest recorded programme will be removed automatically. Please confirm.

If the recording of a programme is currently underway and there is not sufficient remaining disk space, this message will appear. In order to complete the recording the PVR will automatically discard the oldest recording and displays this prompt to give you the option to stop the recording.

A timer record is pending. Continue with time record & stop current recording?

If you have started an instant record or a record until and a time recorded is scheduled to begin. You can either complete the current recording and discard the timed recording or you can stop the current recording and commence the timer record.

The Programme is currently being recorded & cannot be deleted.

If you try to delete a programme on the Recorded Programmes list that has not finished recording this message will appear.

A timer record is pending. Continue with timer record? (the channel could change)

When you are watching a channel, before T-REC records the channel, this message will appear.

Playing Discs

1 Press [⏻] button to power on.

2 Press [DVD] button to enter into DVD mode.

3 Press [OPEN/CLOSE] button to open the disc tray.

Place a disc accurately within the disc tray, ensuring that the label is facing upwards.

4 Press [OPEN/CLOSE] button to close the tray.

The disc tray is closed and after checking the disc's condition, Playback or Stop function starts to operate.

5 To playback, press [PLAY ▶/II] button.

- In the case of DVD, menus and titles are displayed on the TV screen.
- In the case of S-VCD and VCD2.0, the menus are displayed on the TV screen and the unit goes into PBC (Play Back Control) Mode.
- In the case of CD, VCD1.1 and MP3, the disc plays in order of its track numbers.

6 To stop, press [STOP ■] button.

For pause, press [PAUSE] button in playback mode. If you press [PLAY] button, it starts playback again.

7 Press [OPEN/CLOSE] button to remove the disc.

* If no button is pressed within 5 minutes after the opening of the tray, it will automatically close in order to prevent damage.

Various Playback Methods

If you want fast (or fast reverse) playback,

press [▶▶] or [◀◀] button in Playback mode. You can watch fast (or fast reverse) playing screen.

* This reverse playback can be unavailable for certain DVD. Unavailable for MP3.

* The real playback speed may not coincide with displayed speed.

If you want slow playback,

press [PAUSE] and [▶▶]. You can watch the desired screen in the slow forward playback.

Or press [PAUSE] and [◀◀] button. You can watch the desired screen in the slow backward playback.

* The real playback speed may not coincide with displayed speed.

If you want a still picture,

press [PAUSE ▶/II] button in Playback mode. You can watch the desired screen in Pause status.

PVR PART

DVD PART

Playing a desired scene

To skip scenes in a disc

DVD, VCD, CD, MP3

To move to the next chapter (or track), press [NEXT ►►] button.

The current chapter (or track) moves to the next chapter (or track).

Press [LAST ◀◀] button.

The current scene moves to the previous chapter (or track) or first scene of current chapter (or track).

Directly moving to a desired title

DVD, VCD

Some movie discs may contain multiple titles. If the disc has a movie title menu recorded on it, the [TITLE] button can be used to select the movie title. Details of operation may differ depending on the disc used.

* Selecting a title may not be available on certain DVD discs.

1 Press the [TITLE/PBC] or [MENU] button.

A list of the titles on the disc is displayed.

If playing a VCD disc, the menu screen will appear only when the disc has PBC function and PBC ON is activated.



2 Press the [ENTER] button or [►] button after pressing the [▲▼◀►] button to select the desired title.

The selected title now starts playing.

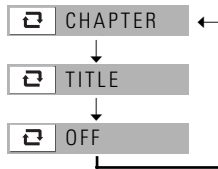


Repeating a defined period

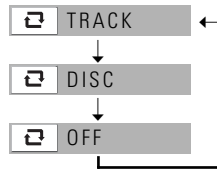
DVD, VCD, CD, MP3

Each time you press [REPEAT] button in playback mode, repeat playback starts as below.

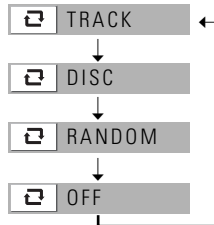
- DVD -



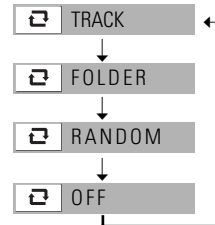
- VCD -



- CD -



- MP3 -



- [REPEAT] CHAPTER : Current chapter will repeatedly played back.
- [REPEAT] TITLE : Current title will repeatedly played back.
- [REPEAT] TRACK : Current track will repeatedly played back.
- [REPEAT] DISC : Current disc will repeatedly played back.
- [REPEAT] RANDOM : Tracks in the disc will played back in random order.
- [REPEAT] FOLDER : Current folder will repeatedly played back.
- [REPEAT] OFF : Repeat playback will be cancelled.

Searching DVD with a title number, a chapter number or a time

DVD

1 If you want to search for a title number, press [SEARCH] button once.

It shows current and total title numbers. Please enter the new title number to be searched using the [NUMBER] buttons.

001/003

2 If you want to search for a chapter number, press [SEARCH] button twice.

It shows current and total chapter numbers. Please enter the new chapter number to be searched using the [NUMBER] buttons.

001/023

3 If you want to search for a particular time, press [SEARCH] button three times.

Please enter the new time to be searched using the [NUMBER] buttons.

01:03:20

4 In order to complete the search process, press [ENTER] button.

PLAY starts from the selected position.

DVD PART

Playing a desired scene

Searching VCD, CD and MP3 with a track or track time

VCD, CD, MP3

1 If you want to search for a particular track, press [SEARCH] button once.

In the case of PBC OFF, a screen as shown to the right will appear showing the current and total track numbers. Please enter the required track number using the [NUMBER] buttons on the remote control.

* If PBC is on, entering the track number will default the unit's PBC to off.

 001/013

2 If you want to search for a particular track time, press [SEARCH] button twice.

In the case of PBC OFF, a screen as shown to the right will appear showing the total time: please enter the required time using the [NUMBER] buttons on the unit's remote control.

 01:03:20

3 On completion of either search process, please press [ENTER].

PLAY starts from the selected position.

Confirming the current PLAY mode on screen

During play, press [INFO] button.

This will display the current disc mode.

If you want to change any of the modes displayed, select the item using the up/ down cursors and choose the new setting using either the [◀] or [▶] button or the numeric buttons on the remote control. On completion, press [ENTER] button.

Exit from this Display mode by pressing the [INFO] button.

- DVD -

DISPLAY	
	001/003
	001/023
	00:01:03
	1/3 ENG
	1/3 ENG
	OFF
	1/4

- current title number / total title number
- current chapter number / total chapter number
- time elapsed
- current subtitle number / total subtitle number / subtitle selected
- current audio language number / total audio language number / audio language selected
- repeat playback mode
- current angle number / total angle number

- SVCD -

DISPLAY	
	001/003
	00:10:54
	OFF
PBC	OFF
	1/3

- current track number / total track number
- time elapsed
- repeat playback mode
- PBC mode
- current audio language number / total audio language number

- VCD -

DISPLAY	
	001/005
	00:07:13
	OFF
PBC	OFF

- current track number / total track number
- time elapsed
- repeat playback mode
- PBC mode

- CD, MP3, JPEG -

DISPLAY	
	001/005
	00:07:13
	OFF

- current track number / total track number
- time elapsed
- repeat playback mode

AUDIO language and SUBTITLE language

The user may select the audio track or the subtitle language if the disc supports this multi-language function.

Selecting an audio language

Keep pressing [AUDIO] button until the user's preferred language appears in playback mode.

If that particular DVD disc includes this audio information, the user can press [AUDIO] button to scroll through the available languages.

- *Certain discs may not support audio select..*

DVD



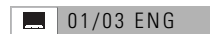
Selecting a subtitle language

Keep pressing the [SUB-T] button until the user's preferred subtitle language appears in the playback mode.

If that particular DVD disc includes this subtitle information, each time the user presses the [SUBTITLE] button the available subtitles will appear in rotation, OFF will also be an option in this rotation.

- *Certain discs may not support subtitle select.*

DVD



ZOOM and Multi Angle

Using a zoom function

DVD, SVCD, VCD

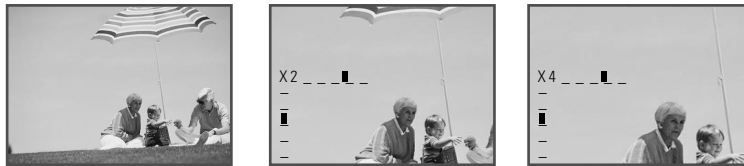
The user can enlarge the current screen by either 2 or 4 times.

Keep pressing the [ZOOM] button until the preferred zoom appears.

Every time the user presses the [ZOOM] button, the magnification changes: 2 times (X2) → 4 times (X4) → OFF → 2 times (X2) → ... in rotation.

The center of the screen is taken as the base point for the enlargement. It is impossible to change this point using the [▲▼◀▶] button on the remote control.

- For the case of SVCD and VCD, only 2 times ZOOM is not available.
- During 4 times zoom, the subtitle facility is not available.



Multi Angle

DVD

If a disc includes multi angle information, the user can watch a screen using a variety of angles. The function is limited to a DVD disc supporting multi angle information.

Keep pressing the [ANGLE] button until the preferred angle appears.

Every time the user presses the [ANGLE] button, the angle changes in a consecutive order.

01/03

DVD PART

About MP3 and JPEG discs

This unit will play MP3, JPEG files recorded on CD-R and CD-RW discs.

1 Turn on your television and select the channel assigned to this DVD player.

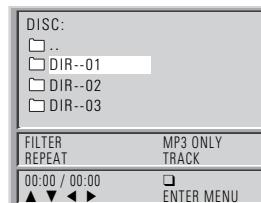
2 Press the DVD [OPEN/CLOSE] button, to open the disc tray.

Place the disc containing MP3, JPEG files on the disc tray with the label facing upwards.

3 Press the DVD open [OPEN/CLOSE] button, to close the disc tray.

The unit will take a short time to load the disc and display the directory structure.

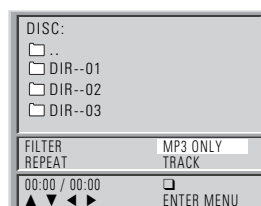
4 The figure such as that displayed on the right should appear.



5 Select your disc type.

Move the cursor to FILTER by pressing [▲▼◀▶] button.

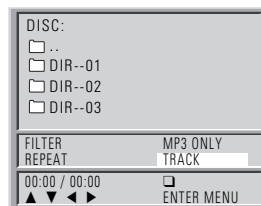
Keep pressing the [ENTER] button until the user's preferred disc type. Each time the user presses the [ENTER] button, the disc type changes from MIXED → MP3 ONLY → JPG ONLY → MP3 AND JPG → MIXED ... in rotation.



6 Select the repeat playback model.

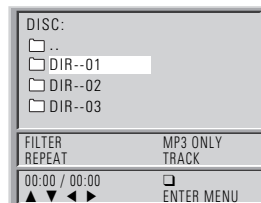
Move the cursor to REPEAT by pressing [▲▼◀▶] button.

Keep pressing the [ENTER] button until the user's preferred repeat playback mode becomes available. Every time the user presses the [ENTER] button, the repeat playback mode changes from TRACK → FOLDER → RANDOM → OFF ... in rotation.



7 Select the folder.

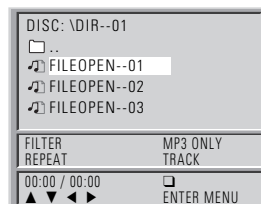
Move the cursor to the desired folder by pressing [▲▼◀▶] button and press the [ENTER] button to confirm.



8 Select the file to listen to (or view).

Move the cursor to the desired file which you want to listen to (or view) by pressing [▲▼◀▶] button and press the [ENTER] button to confirm. The selected file will play back.

* To exit the directory screen press the [MENU] button in playback or stop mode. Press [MENU] button to make it reappear.



PLAY and PAUSE

Press the [PLAY] or [PAUSE] button toggle between those functions.

Search for a track

The [SEARCH] button works on MP3/JPEG discs as well as VCD/CD audio.

** If the [SEARCH] button is pressed in playback mode the folder tree view will disappear to be replaced by the search bar.*

To stop playback

Press the [STOP] button.

To skip to the next or previous file

- Press the [NEXT ►►] button of the remote control briefly while playing, to skip ahead to the beginning of the next file. Each time you press the button consecutively, the beginning of the next file is located and played back.
- Press the [◀◀ LAST] button of the remote control briefly while playing, to skip back to the beginning of the previous file. Each time you press the button consecutively, the beginning of the previous file is located and played back.

The ability of this unit to read MP3 discs is dependent on the following:

- The Bit Rate must be in the range of 64-256 kbps.
- The maximum number of directories should not exceed 32.
- The maximum depth level of directories should not exceed 4.
- In case of the file that is recorded with the variable bit rate (VBR) in one file (Example : 54-256kbps) occurrence of the sound breaking may happen during the playback.
- File names should be named using 8 or fewer letters and/or numbers, and must incorporate the "MP3" file extension. EXAMPLE: *****.MP3 where each * is a letter or number.
- Use only letters and/ or numbers in file names. If you use special characters, the file and/ or folder names may not be displayed correctly on the on-screen display.

The ability of this unit to read JPEG discs is dependent on the following:

- If you press the [PLAY] button instead of [ENTER] in JPEG image, the slide show will begin at the current image.
- To stop the slide show, press the [STOP] button. By pressing the [STOP] and [PLAY] button, you can start the slide show from the first JPEG image.

Cautions

- Don't use the CD-RW (Rewritable) disc if possible because it can not be played back.
- The CD-R must be recorded with the standard format because it can not be played back according to the recording format.
- The CD-R should be written using the 'disc at once' method.
- The disc which is made using the ISO 9660 format can be Played back.

Displaying menus in a disc

To display menus in a disc

DVD, VCD2.0

If a disc includes menus, the user may use them.

1 Press [TITLE/PBC] or [MENU] button.

- This will show the available menus held on the disc, which will differ between formats ("Return" will appear on the OSD with VCD2.0)
- If it is a VCD2.0, select PBC ON mode by pressing [TITLE/PBC] button.
CD and VCD1.1 do not support the function.

2 Move the cursor to the particular item by using the [▲▼◀▶] buttons on the remote control, selecting one using either [ENTER] or [PLAY] button.

DVD Setup

Language Setup

1 Press [SETUP] button when the DVD player is either in the STOP or the Resume STOP mode.

2 Selecting an OSD LANGUAGE

Please select a language to be displayed on the DVD screen.

Each time the user presses the [ENTER] button, the available OSD LANGUAGE changes in rotation.



3 Selecting an AUDIO language

The preferred audio language maybe set if the audio language is set and recorded in the DISC.

Every time the user presses the [ENTER] button, AUDIO language changes ENGLISH → FRENCH → AUTO in rotation.

4 Selecting a SUBTITLE language

The preferred language for the subtitles may be set within this menu. When a subtitle language is set and recorded in the DISC, it is automatically played in the set language every time it is played. (no need for the sentence beginning for example)

Every time the user presses the [ENTER] button, the SUBTITLE language options are scrolled through changes in rotation.

5 Selecting a DISC MENU language.

Every time the user presses the [ENTER] button, the DISC MENU language will change, rotating through the various options.

If a disc does not include this language setting information, this function will not be available.

Video Setup

1 Press [SETUP] button when the DVD player is either in the STOP or the Resume STOP mode.

2 Selecting TV ASPECT

Every time the user presses the [ENTER] button, the TV ASPECT changes 4:3 LB → 16:9 WIDE → 4:3 in rotation.

If a user selects "4:3", the user can watch the original scene in "16:9", but with black bars at the top and bottom of the screen.

If a user selects "4:3 PS", the user can only watch a selection of the original "16:9" screen.

If the disc's TV aspect is originally recorded in 4:3, the user will not be able to watch it in a widescreen format even though the "16:9 WIDE" option has been selected.



Audio Setup

1 Press [SETUP] button when the DVD player is either in the STOP or the Resume STOP mode. Press [▲▼◀▶] button to move the cursor across to the audio menu.

2 Selecting DIGITAL OUT.

Every time the user presses the [ENTER] button, one of two DIGITAL OUT options (BITSTREAM & LPCM) are made available to both the coaxial and optical outputs of this unit.

BITSTREAM: the same format as that recorded on the DVD.

LPCM : the decoded audio signal.

3 Selecting DYNAMIC RANGE.

Every time the user presses the [ENTER] button, the DYNAMIC RANGE changes from OFF to FULL to OFF again, in rotation.

- Set "OFF" to hear a programme in the full dynamic range as a recorded disc.
- In order to compress the dynamic range of the soundtrack set to FULL.



Others Setup

1 Press [SETUP] button when the DVD player is either in the STOP or the Resume STOP mode.

2 Selecting OSD.

Select "ON" to allow OSD (On Screen Display) to be displayed on the TV.

3 Selecting SCREEN SAVER.

If bright scenes continue to be displayed on the screen, the TV can become damaged. If the screensaver option is set to "ON", the screensaver functions automatically and the DVD logo will move continuously if the Resume stop, Stop or Open status is maintained for more than 5 minutes.

4 Changing DEFAULTS.

If you press the [ENTER] button, "RESET" changes to "LOADING" for 2 seconds. Then it changes again to "RESET". This operation will reset every function to the original factory defaults, with the exception of the Parental settings.

5 Change the level of Parental Control.

Using the correct password, it is possible to change the PARENTAL settings by pressing the [ENTER] button. Every time the user presses the [ENTER] button, the parental level of control will change in the following sequence: 1KIDS, 2G, 3PG, 4PG-13, 5PG-R, 6R, 7NC-17 & 8ADULT.

These 8 levels of parental control are provided to prevent children from viewing scenes of a violent or sexual nature. The level of parental control can be incremented to a suitable level.

The default password is "3308" : you may enter this password if your chosen one has been lost or forgotten.

6 Changing a password.

To change the user's password, please move cursor to "CHANGE PASSWORD" and enter new password.



About DVD

Playable Disc

- DVD, Video CD (Version 1.1, 2.0), S-VCD and Audio CD

Disc type	Playable	Restriction
DVD	Possible	Region 2 or Region All
Video CD	Possible	Version 1.0/1.1/2.0, SVCD
CD	Possible	PCM or dts
CD-G	Possible	Audio with graphic
CD-ROM	Possible	MP3/JPEG File
CD-R	Possible	Video-CD/CD/MP3/JPEG
CD-RW	Possible	Video-CD/CD/MP3/JPEG
DVD-R	Possible	DVD Video
DVD-RW	Possible	DVD Video
DVD+RW	Possible	DVD Video
DVD-ROM	Impossible	
DVD-RAM	Impossible	
Photo CD	Impossible	

REGION MANAGEMENT INFORMATION

If the region number described on the DVD disc does not correspond to the Region number of this player, the player will not play this disc.



(Region 2)



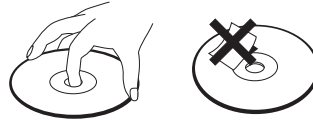
(Region ALL)

Terms relating to DVD

- DVD** A DVD (abbreviation of Digital Versatile Disc or Digital Video Disc) can include 135 minutes of video information. And for audio, it can hold up to 8 kinds of languages and 32 kinds of subtitle languages. By using MPEG-2 video compression and digital 3D surround sound, DVD realizes high definition images and quality sound similar to that found in a movie theatre.
- CDDA** A CDDA (abbreviation of Compact disc digital audio) is a music disc that is currently used.
- MP3** Audio compression format that enables audio files to be stored and transferred on a computer with a relatively small file size. It enables you to enjoy CD quality music. (Short for MPEG-1 Layer 3)
- PBC** This is recorded on a Video CD 2.0, Video CD 3.0, SVCD and CVD. The scenes or information to be viewed (or listened to) can be selected interactively with the TV monitor by looking at the menu shown on the TV monitor. It stands for PlayBack Control.
- CHAPTER** This relates to the information recorded onto a DVD. A title in a DVD may be divided into many tracks and these tracks are called a chapter. A certain scene contained on the disc can be quickly searched with this chapter number.
- TITLE** This relates to the information recorded onto a DVD. A DVD can be divided into many titles.
- TRACK** This relates to the information recorded onto a video CD and audio CD. A disc may consist of many tracks which will allow a user to search to a certain position.
- dts** Digital Theatre System is a 5.1 -channel surround sound system, which is widely used in movie theatres around the world. It enables the bit rate to be increased to provide good sound quality. "DTS" and "DTS Digital Out" are trademarks of Digital Theatre Systems, Inc.
- Multi Angle** Some DVD discs contain the various scenes that have been simultaneously shot from a number of different angles.
- PCM** PCM (Pulse Code Modulation) means digital sound.
- Dolby Digital** Dolby Digital enables the delivery of mono through 5.1-channel audio at data rates from 32 kbps to 640 kbps, thus offering flexibility and economical performance as well as uncompromised sound quality.
- Bitstream** Digital audio data that is decoded into an analogue signal for subsequent output to speakers.
- Lt/Rt** It indicates Left/Right Audio of Dolby Digital 2CH Downmix Output.
- L/R/C/SW/LS/RS** 6 channels are used in Dolby Digital and dts. They are 3 channels for the front screen, 2 channels for surround and 1 subwoofer. The front left speaker is referred as L, right speaker as R, centre speaker as C, subwoofer as SW, left surround speaker as LS, right speaker as RS. * L/R of 6CH output like upper case is displayed as Lo/Ro.
- Downmix** Downmix is the technology for playing proper audio in case the recorded audio channel construction and that of the output channel does not match each other. Downmix will provide 5.1 channel-audio by using 2 stereo speakers.
- S-Video** S-Video offers clearer and sharper pictures than COMPOSITE Video by separately transmitting the signal of colour (C) and brightness (Y).

The safe keeping of discs.

- To keep a disc in a clean condition, please do not touch the side containing play information.
- Do not attach a bit of paper or sticky tape on it.
- Do not expose a disc to direct sunlight or electric heating systems.
- After using it, please keep the disc in a case.



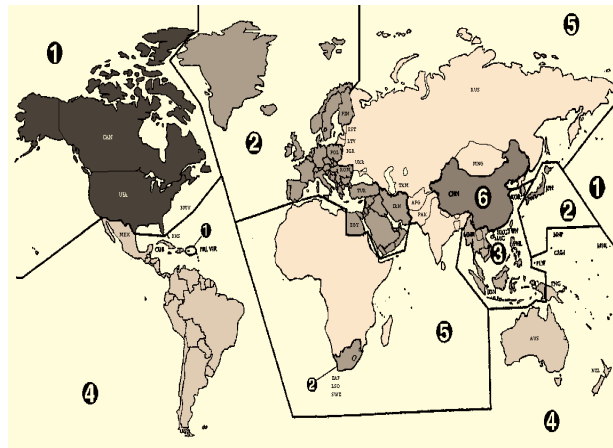
Cleaning a disc

- Please rub gently, from the center outwards, with clean cloth.
- Do not use thinners, benzol (benzene), commercial cleaning goods or antistatic sprays.



Region Code

This product and all DVD's have region codes allocated to them. If both codes do not match the disc can not be played. A map showing the codes allocated to each region, is given to the side.



Macrovision

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.

Problems and Solutions

PVR

No Power	<ul style="list-style-type: none"> ➤ Check that the power plug is connected to the wall outlet and you have pressed the Power On/Standby button.
When the power is turn on it takes some time for the picture to be displayed	<ul style="list-style-type: none"> ➤ Due to the time it takes to initialize the Hard disk drive it may take a few moments for the picture to appear.
The television programme has not recorded	<ul style="list-style-type: none"> ➤ Check the aerial connections. ➤ Check the disk space. ➤ Check the clock is set to the correct time. ➤ Check the PVR/DVD is tuned in correctly.
Timer Recording was unsuccessful	<ul style="list-style-type: none"> ➤ Was the PVR/DVD Combo powered – on? ➤ Did you set the timer recording correctly? ➤ Were you on the right channel? ➤ Was there sufficient disk space?
A recording has been erased from the Recorded Programmes List	<ul style="list-style-type: none"> ➤ In order to make room for new recordings on the disk, if there is not enough disk space the unit will automatically delete unlocked recordings. It will delete the oldest programmes first. To protect a recording that you do not wish to be deleted lock it in the Recorded Programmes List.

DVD

The DVD player does not play.	<ul style="list-style-type: none"> ➤ If a DVD is from overseas, it may not be played. Please check the DVD's region code whether it has the relative region code 2 or All. ➤ Please check whether a DVD is inserted in the right direction. ➤ This unit does not support CD-ROM or DVD-ROM playback.
No sound comes through.	<ul style="list-style-type: none"> ➤ Play mode may be "SLOW" or "PAUSE/STEP" (In abnormal speed play, no sound comes through). ➤ Did you connect the parts in the correct way? ➤ Please check the operative condition of TV or amplifier. ➤ From "DEFAULT" SET, please check "Audio" items.
A disc is playing but screen does not appear or poor screen appears.	<ul style="list-style-type: none"> ➤ Did you turn on your TV set? ➤ Did you connect the parts in the correct way? ➤ The play may be in "PAUSE". ➤ The disc may be contaminated or damaged.
The sound is irregular.	<ul style="list-style-type: none"> ➤ Please check the connection with the Dolby Digital amplifier. ➤ Please check the plugs are connected tightly with one another. ➤ The connection terminals may be contaminated.
Remote control does not work	<ul style="list-style-type: none"> ➤ Please check the angle of the remote control and that there is nothing impeding the signal. ➤ Battery may be weak or exhausted. ➤ Unplug the power plug and plug it in again.
No sound comes through during Dolby Digital mode.	<ul style="list-style-type: none"> ➤ Please check the connection with the Dolby Digital Amplifier. ➤ Please check "Dolby Digital" mark on your DVD. ➤ When playing it through digital output, while pressing [STOP], please check whether "DIGITAL OUT" is "BITSTREAM" by pressing [SETUP]. ➤ Please check the connection is correct.

[AUDIO] or [SUBTITLE] button does not work.	<ul style="list-style-type: none"> ➤ If the DVD does not include language information, it does not support the function.
[ANGLE] button does not work while a DVD is playing.	<ul style="list-style-type: none"> ➤ "ANGLE" will support only the DVD containing Multi angle scenes.
"MENU" does not appear while a DVD is playing.	<ul style="list-style-type: none"> ➤ Please check the angle of the remote control with respect to the unit, also the distance or any interruption. ➤ Please check the battery in the remote control whether it is exhausted or not. ➤ The DVD may not contain menu information.
Screen shakes or appears only in black and white.	<ul style="list-style-type: none"> ➤ The disc may have some contaminants or be damaged. ➤ Please check the DVD's region code 2.
The file name of MP3 (CD-R) appears with strange letters.	<ul style="list-style-type: none"> ➤ The file name of MP3 recognises only the Alphabet (A~Z, a~z), numbers (0~9) and special symbols on the keyboard (~,!, @, #, \$). Only a maximum of 10 letters can be displayed. ➤ The letters except in the above case will be displayed like "----".
Any MP3 (CD-R) file isn't Displayed.	<ul style="list-style-type: none"> ➤ If the surface of disk is damaged, the file display and playback may be impossible.

Specifications

General

Model Description	DVD HARD DISC Recorder
1st Target Market	Europe
Mass Production Start	JULY. 2003
Power Consumption	50W(Max), 45W(working), 15W (Stand-By), 6W (Power-off)
Set Gross Weight (Estimated)	5.5 Kg
Set Size (WxHxD)	420 x 80 x 300 (mm)
Stuffing Quantity (40ft)	1750 units

PVR Features

Drive interface	ATA (IDE bus) Interface	
Capacity	40 GB (1platter)	
RPM	5400	
Start time	8 sec (15 sec max)	
Stop time	12 sec (20 sec max)	
Video Recording Format	MPEG II	
Horizontal Resolution (line input)	High : 350 lines	Pass-through : Min 350 lines
	Standard : 350 lines	Time-shifting : Min 350 lines
	Basic : 250 lines	
Screen size(MPEG encoder)	High : full D1 (720 x 576)	Pass-through : full D1 (720 x 576)
	Standard : 2/3 D1 (480 x 576)	Time-shifting : full D1 (720 x 576)
	Basic : 1/2 D1 (352 x 576)	
Recording Rate (Mb/sec)	Video DAC	10bit
; Low-to-High Quality	2 - 4 - 6 (Mb/sec)	Time-shifting : 6 Mb/sec
Time-shifting buffering time	1 hour	T-S and System region : about 3GB
Recording Capacity (40GB/20GB)	High Quality : up to 13.4 Hours	6Mbps
	Medium Quality : up to 18.8 Hours	4Mbps
	Basic Quality : up to 34.2 Hours	2Mbps (Max 40H Incl. Space for Time shift & filing)
Audio Recording Format	MPEG I Layer II (2 channel)	
Analog in/out	Yes	
Sampling Rate	44.1KHz	
Audio ADC/DAC	20bit	
S/N Ratio (line input)	65 dB weighted	
Dynamic range (line input)	80 dB	
Muting	Yes	
Broadcasting Station Memory Number	99CH	
Auto Channel Setting	Auto Search & Memory, Auto Channel Sorting, Auto Station Name Display	
Manual Channel Setting	Channel Direct Input / Manual Search & Memory / Channel Clear	

Specifications

Special Playback & Recording

Time Shifting	Yes	
Forward / Reverse Search Speed	5 steps(x2, x10, x20, x40, x80)	x2 forward digest function Normal audio out
Still Picture	0	
Slow (Variable Slow Speed)	Yes (1/2, 1/4, 1/8, 1/16, 1/32 : 5 steps)	- Available only forward
Repeat Play	Yes	- "A-B repeat"
"A-B" REC	Yes	- Press "REC" during Repeat Play
Recorded Programme Search	Yes	- next clip, last clip
REC Bit Rate Select	Yes	- By OSD menu
System information	Yes	- By OSD menu
Number of Timer Recording	8 Events / 1 Year	
Auto Clock Setting	Yes	
Timer Recording System	Yes	General, Show View / Video Plus(+)
(Show View / Video Plus(+), etc)		
One Touch Recording	Yes	
Daily Recording	Yes	
Weekly Recording	Yes	
Timer Recording Contents Display	Yes	
Timer Recording Contents Correct	Yes	
Initial Partial Guide Setup	Yes	- first AC power cord input
Child Lock	Yes	
Power Failure Compensation	More than 1 day	

DVD features

Video format supported	DVD / DVD+RW / DVD+R / DVD-RW / DVD-R / CD / CD-R / CR-RW / VCD / SVCD
Audio format supported	CDDA / MP3
Disc size	8cm/12cm
NTSC & PAL Discs playback	Yes
Video output signal	NTSC / PAL
Video Digital-to-analogue converter	10bit/54MHz
Progressive Scanning	Yes (Option)
S-Video & Component or RGB	Switchable
Smooth motion picture in reverse mode	Yes
Audio Digital-to-analogue converter	96kHz/24bit
DVD Audio Digital-to-Analogue Converter	No
S/N Ratio	90 dB
3D Virtual Surround for 2Ch Audio	Yes
Dolby Digital Down Mix	(5.1ch to LtRt out) Yes
Dolby Digital Passthrough	Yes
DTS Digital Passthrough	Yes
Dynamic range compression	Yes
DSP Mode	No
Equalizer	No
Fast Scan Motion (FWD / REV)	DVD : (0/0) : x2,x4,x8,x16,x32 VCD : (0/0) : x2,x4,x8,x16,x32 CDDA : (0/0) : x2,x4,x8,x16,x32

MISCELLANEOUS

DVD features continued

Slow Motion (FWD / REV)	DVD : (0/0) : x1/2, x1/4, x1/8, x1/16, x1/32
Slow Motion (FWD / REV)	VCD : (0/0) : x1/2, x1/4, x1/8, x1/16, x1/32
Still picture/freeze frame	Yes
	(jitter-free : auto-switching: Field / Frame)
Frame by Frame (forward)	Yes
Skip (FWD / REV)	Yes
2x Subtitle Display	Yes
Repeat playback function	Yes
Programme Play	Yes for DVD/VCD/CD
Random Play	Yes for CD/MP3
BOOK Mark function	No (No. of Marks)
Time Search	Yes
Zoom on Still / Running DVD Video	(Zoom x) x2, x4 Zoom (magnify)
JPG files playback	Yes only slide show under 500K
Compatibility with Kodak Picture CD	No

User Interface & Operation

OSD languages	Eng/Fre/Ger/Spa/Dut/Ita/Swe/Fin	8 Languages
Disk Type displayed OSD / Front Panel Display	O/O	
Screen saver On/Off selection	Yes	
Resume play	Yes	
Parental lock	Yes	
Picture mode selector 4x3, 16x9, letterbox	Yes	
Multi-angle playback	Yes	
Upgradeable Flash Memory Capability	Yes	
Selectable Audio Streams (total quantity)	No	
Selectable Subtitle Languages (total quantity)	No	

Connections

Mic input on front panel	Yes
Antenna Jack Type	1 Pair
Rear Audio/Video Jack	AV1 Jack(Scart Jack) 1
	Video (composite) Output(RCA Jack) 1
	AV2/DECODER Jack(Scart Jack) 2
	Audio Input (Analogue, RCA jacks) 1
	Audio Output (Analogue, RCA jacks) 2
	Digital Audio Output - Optical(DVD only)
	Digital Audio Output - Coaxial(DVD only)
S-Video	1 Pair (In & Output)
CBC Control	Yes
Remote	Standard (45Keys)

Specifications

Accessory

Remote controller	1 EA	Incl. Battery
Scart cable(21pin)	1 EA	cf) Scart+Phone cable for Australia
RF Cable	1 EA	
S-Video cable	Option	
CBC cable	1 EA	
User manual	1 EA	

Packaging

4-coloured coating box	Yes	1 unit per carton
Carrying Handle	No	

MISCELLANEOUS

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