

DVD Player / Recorder

DVDR3480

User Manual

This product comes with
**Premium
Home Service**
Refer to the inside page for details.

Thank you for choosing Philips.

Need help fast?

*Read your Quick Start Guide and/or User Manual first for quick tips
that make using your Philips product more enjoyable.*

***Register your product and get support
at www.philips.com/welcome***



PHILIPS

Premium Home Service

Dear valued customer,

Thank you for buying a Philips DVD Recorder.
Your product comes with the Philips 'Premium Home Service' warranty.

Should you require any assistance in operating your set, Philips offers you professional support via:

Philips Support Center website

www.philips.com/support

or

Philips Consumer Care Helpline *

where our trained representatives will guide you, step-by-step, to solve any issues you have.

If we are unable to provide a solution, Philips will be pleased to pick-up your DVD Recorder from your home; and provide a service replacement set, within 10 days. That's the Philips 'Premium Home Service' commitment to you. This service comes free-of-charge (except for Consumer Care Helpline) and applies to all Philips DVD Recorders during the Philips warranty period.

For more information, please contact a representative via the Philips Consumer Care Helpline.

* Refer to the back page of this manual for the Philips Customer Care phone number in your country.

Please have with you the model number, serial number and purchase date of your product when contacting Philips Customer Care.

Important notes for users in U.K.

Mains plug

This apparatus is fitted with an approved 13 Amp plug. To change a fuse in this type of plug proceed as follows:

- 1 Remove fuse cover and fuse.
- 2 Fix new fuse which should be a BS1362 5 Amp, A.S.T.A. or BSI approved type.
- 3 Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place.

If the mains plug contains a fuse, this should have a value of 5 Amp. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5 Amp.

Note: The severed plug must be disposed off to avoid a possible shock hazard should it be inserted into a 13 Amp socket elsewhere.

How to connect a plug

The wires in the mains lead are coloured with the following code: blue = neutral (N), brown = live (L).

- As these colours may not correspond with the colour markings identifying the terminals in your plug, proceed as follows:
 - Connect the blue wire to the terminal marked N or coloured black.
 - Connect the brown wire to the terminal marked L or coloured red.
 - Do not connect either wire to the earth terminal in the plug, marked E (or e) or coloured green (or green and yellow).

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead - not simply over the two wires.

Copyright in the U.K.

Recording and playback of material may require consent. See Copyright Act 1956 and The Performer's Protection Acts 1958 to 1972.

Italia

DICHIARAZIONE DI CONFORMITA'

Si dichiara che l'apparecchio DVDR3480, Philips risponde alle prescrizioni dell'art. 2 comma 1 del D.M. 28 Agosto 1995 n. 548.

Fatto a Eindhoven

Philips Consumer Electronics
Philips, Glaslaan 2
5616 JB Eindhoven, The Netherlands

Norge

Typeskilt finnes på apparatens underside.

Observer: Nettbryteren er sekundert innkopleet. Den innebygde nettdelen er derfor ikke frakopleet nettet så lenge apparatet er tilsluttet nettkontakten.

For å redusere faren for brann eller elektrisk støt, skal apparatet ikke utsettes for regn eller fuktighet.

LASER

Type	
Semiconductor laser	InGaAlP (DVD) AlGaAs (CD)
Wave length	658 nm (DVD) 90 nm (CD)
Output Power	30 mW (DVD+RW write) 1.0 mW (DVD read) 1.0 mW (CD read)
Beam divergence	84 degrees (DVD) 61 degrees (CD)

For Customer Use:

Read carefully the information located at the bottom or rear of your DVD Recorder and enter below the Serial No. Retain this information for future reference.

Model No. DVD RECORDER/ PLAYER
DVDR3480
Serial No. _____

DK

Advarsel: Usynlig laserstråling ved åbning når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

Bemærk: Netafbryderen er sekundært indkoblet og afbryder ikke strømmen fra nettet. Den indbyggede netdel er derfor tilsluttet til lysnettet så længe netstikket sidder i stikkontakten.

S

Klass I laserapparat

Varning! Om apparaten används på annat sätt än i denna bruksanvisning specificerats, kan användaren utsättas för osynlig laserstråling, som överskrider gränsen för laserklass I.

Observera! Stömbrytaren är sekundärt kopplad och bryter inte strömmen från nätet. Den inbyggda nätdelen är därför ansluten till elnätet så länge stickproppen sitter i vägguttaget.

SF

Luokan I laserlaite

Varoitus! Laitteen käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan I ylittävälle näkymättömälle lasersäteilylle. Oikeus muutoksiin varataan. Laite ei saa olla alttiina tippu-ja roiskevedelle.

Huom. Toiminnanvalitsin on kytketty toisiopuolelle, eikä se kytkä laitetta irti sähköverkosta. Sisäänrakennettu verkko-osa on kytkettynä sähköverkkoon aina silloin, kun pistoke on pistorasiassa.

'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 OR 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.'

CAUTION

VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN.
AVOID EXPOSURE TO BEAM

ADVARSEL

SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING UNDGÅ UDSÆTTELSE FOR STRÅLING

VARNING

SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD BETRAKTA EJ STRÅLEN

VARO!

AVATTAESSA OLET ALTTIINA NÄKYVÄLLE JA NÄKYMÄTTÖMÄLLE LASER SÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN

VORSICHT

SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETZEN

ATTENTION

RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE EXPOSITION DANGEREUSE AU FAISCEAU

Due to the inconsistency of disc formats provided by various disc manufacturers, your DVD system/ player/recorder may require a playability enhancement or upgrade. As DVD technology advances, these enhancement will become common and will be easy to complete. Go to www.philips.com/support for software upgrade.

Disposal of your old product



Your product is designed and manufactured with high quality materials and components, which can be recycled and reused!

When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC. Please inform yourself about the local separate collection system for electrical and electronic products.

Please act according to your local rules and do not dispose of your old products with your normal household waste. The correct disposal of your old product will help prevent potential negative consequences for the environment and human health.

This product incorporates copyright protection technology that is protected by US patents. Use of this copyright protection technology must be authorised by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorised by Macrovision. Reverse engineering or disassembly is prohibited.

U.S. Patent Number 4,631,603; 4,819,098; 4,907,093; 5,315,448; and 6,516,132



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DivX Ultra Certified products: "DivX, DivX Ultra Certified, and associated logos are trademarks of DivX, Inc. and are used under license.



i.Link is also known as 'FireWire' and 'IEEE1394'. This connection is used for transferring of high bandwidth digital signals used by digital video (DV) camcorders. It carries all audio and video signals via a single cable.

This product complies with the radio interference requirements of the European Community.



This product complies with the requirements of the following directives and guidelines: 2006/95/EC + 89/336/EEC + 93/68/EEC

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Care and Safety Information

CAUTION!

This unit does not contain any user serviceable parts. Please leave all maintenance work to qualified personnel.

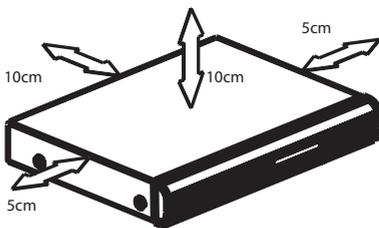
Setup precautions

Finding a suitable location

- Place this unit on a flat, hard and stable surface. Do not place the unit on a carpet.
- Do not place this unit on top of other equipment that might heat it up (e.g., receiver or amplifier).
- Do not put anything under this unit (e.g., CDs, magazines).
- Install this unit near the AC outlet where the AC power plug can be easily reached.

Space for ventilation

- Place this unit in a location with adequate ventilation to prevent internal heat build up. Allow at least 10 cm (4") clearance from the rear and the top of this unit and 5 cm (2") from the left and right to prevent overheating.



Avoid high temperature, moisture, water and dust

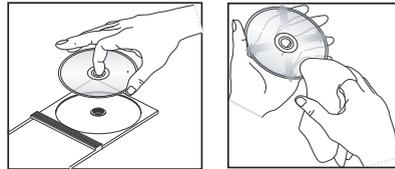
- This unit must not be exposed to dripping or splashing.
- Do not place any object or items that can damage this unit (e.g., liquid filled objects, lighted candles).

Cleaning discs

CAUTION!

Risk of damage to discs! Never use solvents such as benzene, thinner, cleaners available commercially, or antistatic sprays intended for discs.

- Wipe the disc with a micro fibre cleaning cloth from the centre to the edge in a straight line movement.



About recycling

These operating instructions have been printed on non-polluting paper. This electronic equipment contains a large number of materials that can be recycled. If you are disposing of an old machine, please take it to a recycling centre. Please observe the local regulations regarding disposal of packaging materials, exhausted batteries, and old equipment.

Product Information

Introduction

Your Philips recorder allows you to record TV programmes, copy camcorder recordings to a DVD±RW or DVD±R and play pre-recorded DVDs. The recordings you make on the recorder will play on DVD players and DVD-ROM drives. The DVD±R discs have to be finalised before they can be played back on other DVD players.

Before you start using this recorder, complete the basic connections and set-up in three easy steps.

Step 1: Basic recorder connections

Step 2: Optional connections for other devices

Step 3: Basic installation and set-up

Please take time to read this user manual before using your recorder. It contains important information and notes regarding the operations of the recorder.

Helpful Hints:

- If you have questions or if problems come up during operation, please see the chapter 'Troubleshooting'.
- If you need further assistance, please call the customer support service for your country. The corresponding telephone numbers and email addresses are given in the guarantee booklet.
- Refer to the type plate on the rear or bottom of the product for identification and supply ratings.

Accessories supplied

- Remote control and batteries
- RF antenna cable
- Quick Start Guide

Region codes

DVD films are usually not released at the same time in all regions of the world, thus all DVD players are keyed to a specific region code.

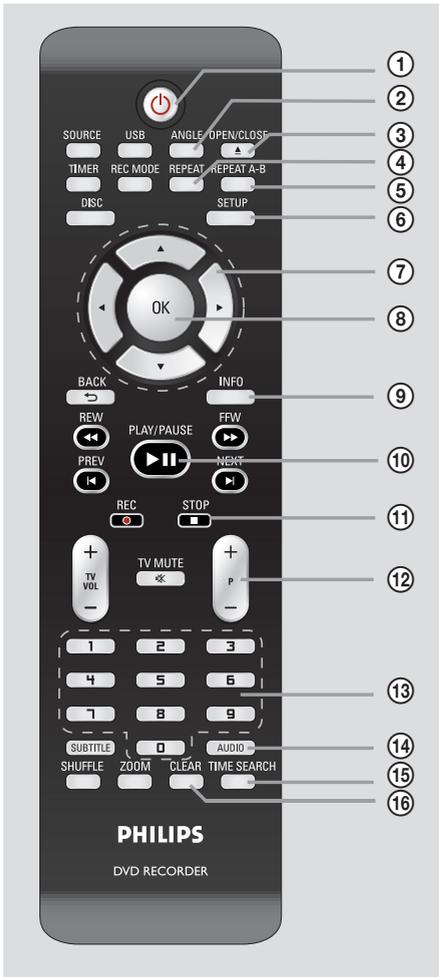
This device will only play **Region 2** DVDs or DVDs manufactured to be played in all regions ('ALL'). DVDs from other regions cannot be played on this recorder.



Copyright notice

The making of unauthorised copies of copy-protected material, including computer programmes, files, broadcasts and sound recordings, may be an infringement of copyrights and constitute a criminal offence. This equipment should not be used for such purposes.

Remote Control



- ① **Power**
– Turns on the recorder or switches to standby mode.
- ② **ANGLE**
– Selects a DVD disc camera angle (if available).
- ③ **OPEN/CLOSE ▲**
– Opens/closes the disc tray.

- ④ **REPEAT**
– Selects various repeat modes.
- ⑤ **REPEAT A-B**
– Repeats a specific section on a disc.
- ⑥ **SETUP**
– Enters/exits the system setup menu.
- ⑦ ◀ ▶ : Cursor keys for moving to the left/right.
▲ ▼ : Cursor keys for moving up/down or changing the recorder's TV tuner channel.
- ⑧ **OK**
– Confirms an entry or selection.
- ⑨ **INFO**
– Displays/removes the on-screen display.
- ⑩ **PLAY/PAUSE ▶||**
– Starts/pauses playback or recording.
- ⑪ **STOP ■**
– Stops playback/recording.
- ⑫ **P +/-**
– In tuner mode, select the next or previous TV channel.
- ⑬ **Numeric keypad**
– Selects a chapter/track number to play.
– Selects the recorder's preset TV tuner channel.
- ⑭ **AUDIO**
– Selects an audio language/channel.
- ⑮ **TIME SEARCH**
– Access the time search entry screen during audio or video playback.
- ⑯ **CLEAR**
– Clears the title name entry while in title editing mode.

Remote Control (continued)

17 USB

- Access the contents of the connected USB flash drive/ USB memory card reader.

18 SOURCE

- Selects the recorder's input source (Tuner, CAM, EXT2 or DV).

19 REC MODE

- Toggles between recording modes : HQ, SP, SPP, LP, EP, or SLP. This determines the quality of the recording and the amount/length of time you can record on a DVD±R/±RW.

20 TIMER

- Enters/exits the timer recording menu.

21 DISC

- Access DVD disc menu.
- Access VCD disc menu when PBC is turned on.

22 BACK ↵

- Returns to the previous menu of the on-screen menu, a video CD (VCD) or some DVDs.

23 REW ◀◀ / FFW ▶▶

- Fast reverse or fast forward search.

24 PREV ◀ / NEXT ▶

- Skips to previous or next chapter/track/ title.

25 REC ●

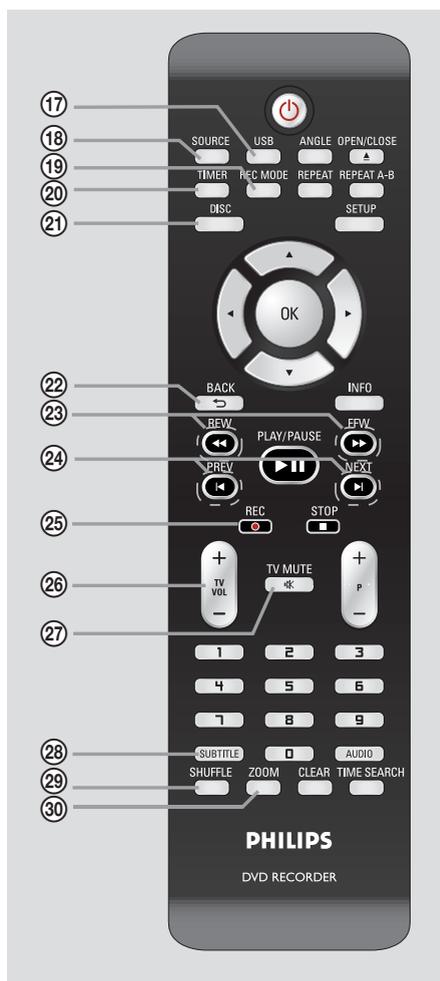
- Starts recording the current TV channel or the current video input source.
- Press repeatedly to set the recording length in 30-minute increments.

26 TV VOL + / –

- Adjusts the volume of the TV (Philips TV only).

27 TV MUTE ✖

- Mute the volume of the TV set (Philips TV only).



28 SUBTITLE

- Selects a subtitle language during playback of DVD or DivX Ultra Video discs.

29 SHUFFLE

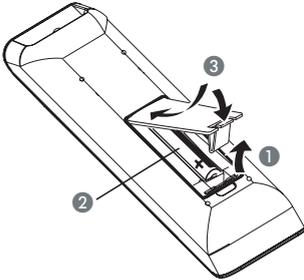
- Enables random playback of items in playlist.

30 ZOOM

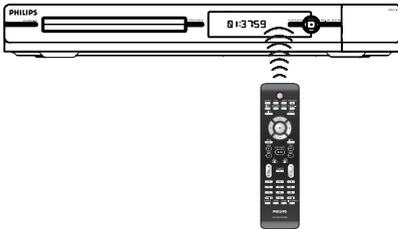
- Enlarges a picture on the TV screen during playback

Remote Control (continued)

Using the remote control



- 1 Open the battery compartment.
- 2 Insert two batteries of type R03 or AAA, following the indications (+ -) inside the compartment.
- 3 Close the cover.
- 4 Point the remote control directly at the remote sensor (iR) on the front panel and select the desired function.

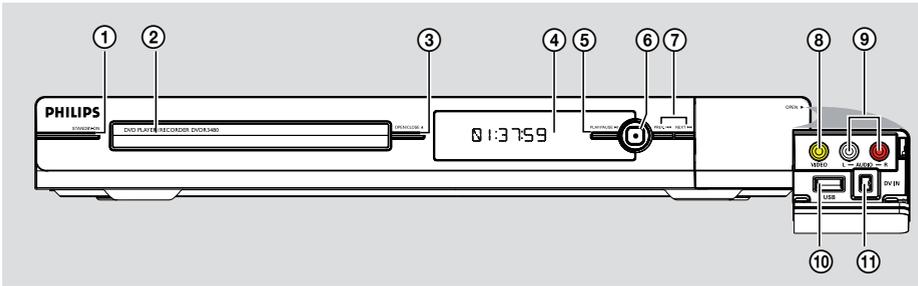


CAUTION!

- Remove batteries if they are exhausted or if the remote control is not to be used for a long time.
- Do not mix batteries (old and new or carbon and alkaline, etc).
- Batteries contain chemical substances, so they should be disposed of properly.

Main Unit

English



① **STANDBY-ON**

- Turns on the recorder or switch to standby mode.

② Disc tray

③ **OPEN/CLOSE ▲**

- Opens/closes the disc tray.

④ System display panel

- Shows information about the current status of the recorder.

⑤ **PLAY/PAUSE ►||**

- Starts/pauses playback or recording.

⑥ ● (RECORD)

- Starts recording the current TV channel or the current video input source.
- Press repeatedly to set the recording length in 30-minute increments.

⑦ **PREV ◀◀ / NEXT ▶▶**

- Go to the previous/next chapter or track. Press and hold to make a forward/reverse search.

Sockets behind the flap

Flip down the door as indicated by the **OPEN ►** label at the right hand corner.

⑧ **CAM**

- Video input for camcorders or video recorders.

Press **SOURCE** on the remote control to select 'CAM' in order to view the input source.

⑨ **L/R AUDIO**

- Audio input for camcorders or video recorders.

⑩ **USB**

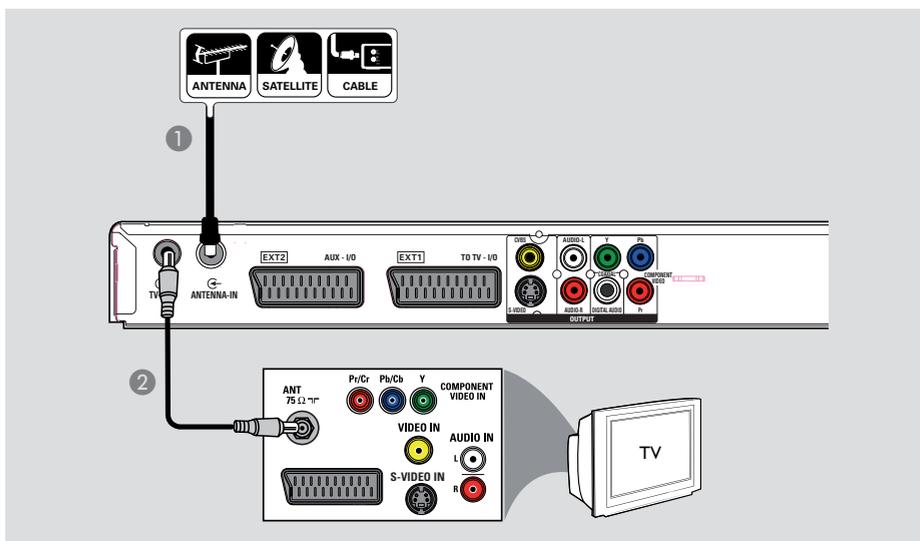
- Connector for USB flash drive or digital camera.

* Only brands and models of digital cameras which support USB Mass Storage Device class standard are supported.

⑪ **DV IN**

- Input for digital camcorders or other suitable devices using this connector. Press **SOURCE** repeatedly on the remote control to select 'DV' in order to view the input source.

Step I: Basic Recorder Connections



Connecting the antenna cables

These connections enable you to watch and record TV programmes using the recorder. If the antenna signal is connected via a VCR, Cable Box or Satellite Receiver, ensure that these devices are turned on in order to watch or record the cable programmes.

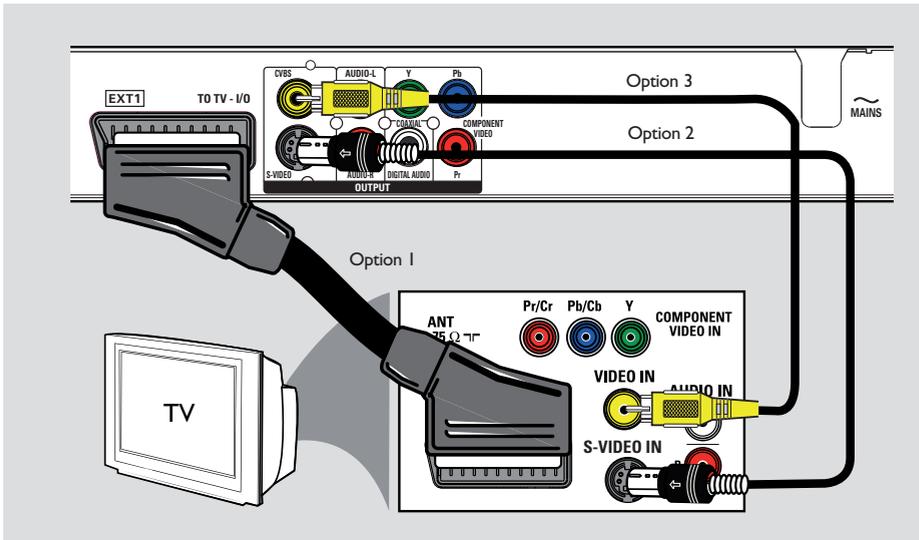
- **If you want to connect to a VCR and/or Cable Box/Satellite Receiver,** see the chapter “Step 2 : Optional Connections” for the complete connections to your TV.

- 1 Connect the existing Antenna/Cable TV signal (or from the Cable Box/Satellite Receiver {RF OUT or TO TV}) to the **ANTENNA-IN** socket on the recorder.
- 2 Use a RF antenna cable to connect **TV-OUT** socket on the recorder to the antenna input socket on your TV (VHF/UHF RF IN).

Helpful Hint:

– Depending on how you have currently connected your TV (directly from an off-air antenna or Cable box or VCR), you will have to disconnect some of the cables before you make the above connection.

Step I: Basic Recorder Connections (continued)



Connecting the video cable

This connection enables you to view the disc playback from the recorder. You only need to choose **one** of the options below to make your video connection.

Option 1: Using a SCART cable

- Use a scart cable (not supplied) to connect the **EXT1 TO TV-I/O** scart socket on the recorder to the corresponding scart input socket on the TV.

Helpful Hints:

- If your TV has several SCART sockets, select the SCART socket that is suitable for both video output and video input.
- The EXT2 AUX-I/O socket is used for connecting additional devices.

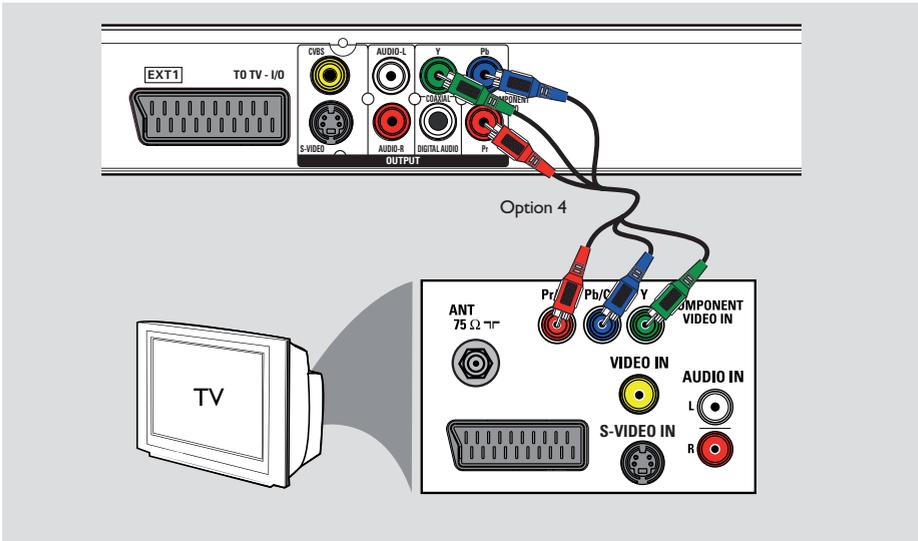
Option 2: Using an S-Video cable

- Use an S-video cable (not supplied) to connect the **S-VIDEO OUTPUT** socket on the recorder to the S-Video input socket (or labelled as Y/C or S-VHS) on the TV.
→ Audio connection is required in order to hear the sound, see the next section “Connecting the audio cables”.

Option 3: Using a Video (CVBS) cable

- Use a composite video cable (yellow - not supplied) to connect the **CVBS OUTPUT** socket on the recorder to the video input socket (or labelled as A/V In, Video In, Composite or Baseband) on the TV.
→ Audio connection is required in order to hear the sound, see the next section “Connecting the audio cables”.

Step I: Basic Recorder Connections (continued)



Option 4: Using Component video socket

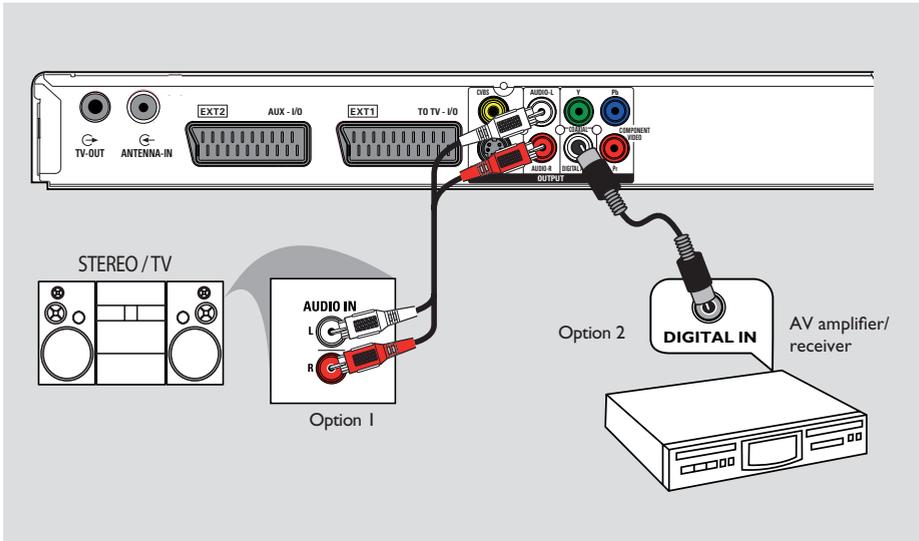
If your TV accepts progressive scan signals, connect the recorder to your TV using the component video sockets in order to enjoy the progressive scan feature.

- 1 Connect the component video cables (red/ blue/green - not supplied) from the **Y Pb Pr** sockets on the recorder to the corresponding component video input sockets (usually labelled as Y Pb/Cb Pr/Cr or YUV) on the TV.
- 2 If your TV accepts Progressive Scan signal, see the chapter “Setup Menu Options – Video Settings – { Video Output }” for Progressive Scan set-up.

IMPORTANT!

The progressive scan video quality is only available through a **Y Pb Pr** connection and a progressive scan TV is required. It is strongly advised to complete the recorder installation first, before enabling the progressive scan feature.

Step I: Basic Recorder Connections (continued)



Connecting the audio cables

This connection enables you to listen to the sound. This connection is not required if the recorder is connected to the TV using the SCART cable.

Option 1: Using an audio cable

You can connect the recorder to a two channel stereo system or receiver in order to enjoy the stereo sound system.

- Use an audio cable (red/white ends - not supplied) to connect the **AUDIO-L/R** sockets to one of the following devices with the same input sockets.
 - a stereo system (for example, TV or mini system).
 - a receiver with two channel analogue stereo.

Option 2: Using a coaxial cable

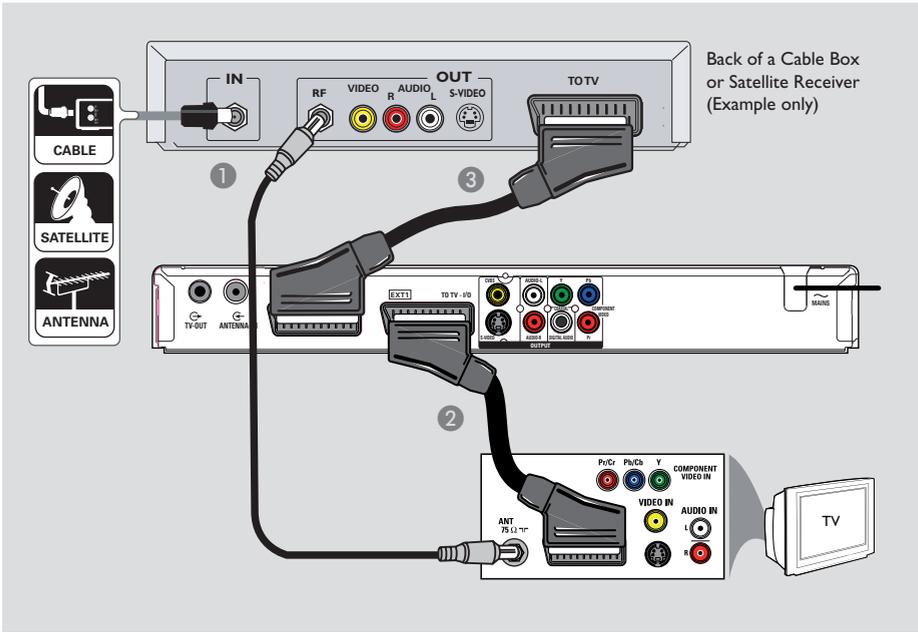
You can connect the recorder to an AV amplifier/receiver with a digital multichannel sound decoder in order to enjoy multichannel surround sound.

- Use a coaxial cable (not supplied). Connect the **COAXIAL (DIGITAL AUDIO OUT)** socket on the recorder to the digital input of the receiver/amplifier.

Before you start operating, set the digital audio output settings accordingly (see the chapter “Setup Menu Options – Audio settings – { Digital Output }”).

If the audio setting does not match your stereo’s capabilities, the stereo may produce a strong, distorted sound or no sound at all.

Step 2: Optional Connections



Connecting to a Cable Box or Satellite Receiver

Option 1

If your Cable Box/Satellite Receiver has only an antenna output socket (RF OUT or TO TV), see the section “Step 1: Basic Recorder Connections – Connecting the antenna cables” for the complete connections to your TV.

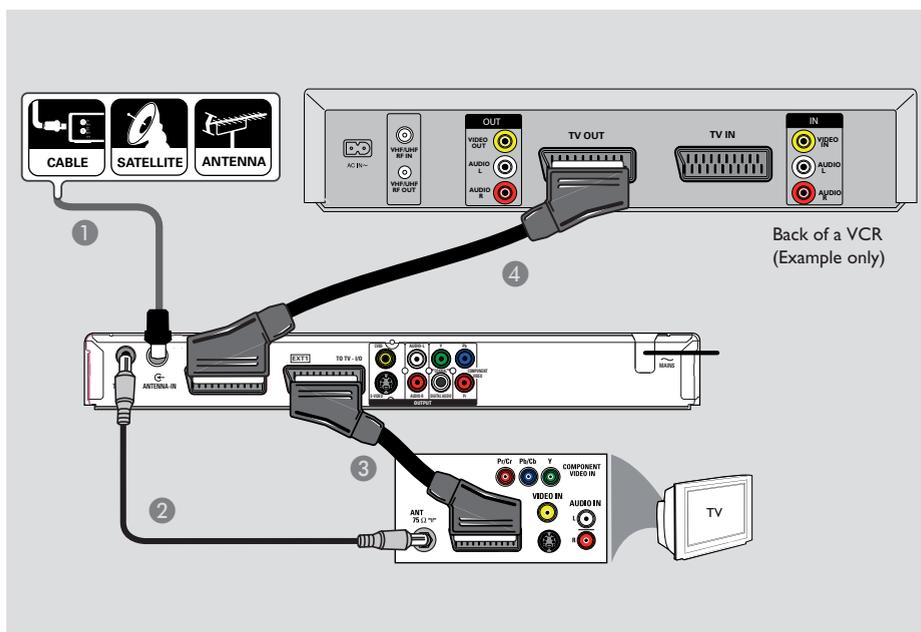
Option 2 (see the above illustration) **If your Cable Box/Satellite Receiver has a scart output socket**

- 1 Keep the existing antenna connection from the Cable Box/Satellite Receiver to your TV.
- 2 Use a scart cable (not supplied) to connect the **EXT1 TO TV-I/O** scart socket on the recorder to the corresponding scart input socket on the TV.
- 3 Use another scart cable (not supplied) to connect the **EXT2 AUX-I/O** scart socket on the recorder to the scart output socket (or labelled as TV OUT or TO TV) on the Cable Box/Satellite Receiver.

Helpful Hint:

– When using this connection, automatic channel search is not required. Read chapter “Step 3: Installation and Setup”.

Step 2: Optional Connections (continued)



Connecting to a VCR or other similar device

This connection enables you to record from video tape to a DVD±R/±RW and allows the VCR to be used for playback if the recorder is turned off.

IMPORTANT!

Your new recorder can replace the VCR for all your recording needs. Just unplug all the connections to your VCR.

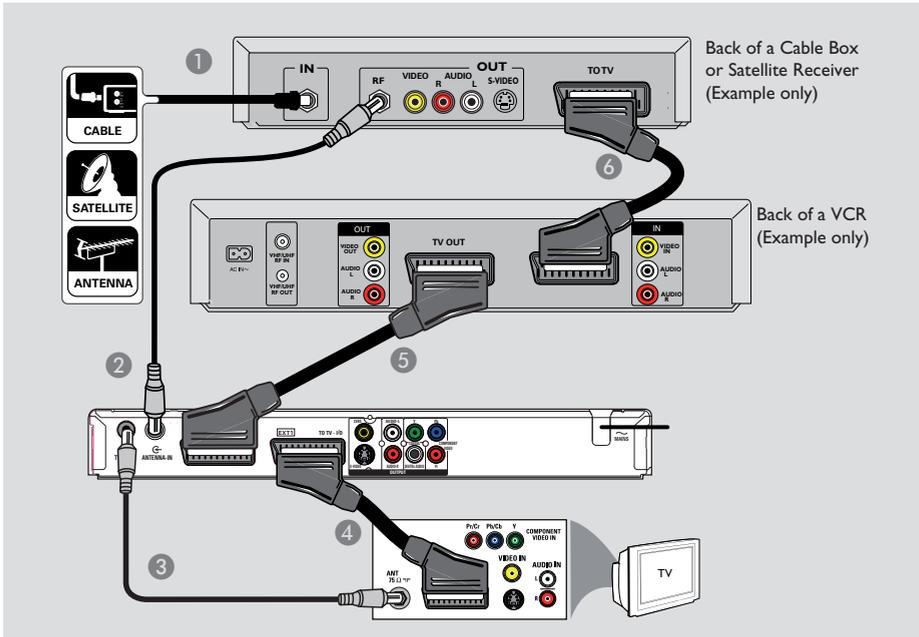
- 1 Connect the existing Antenna/Satellite/Cable TV signal (or from the Cable Box/Satellite Receiver, labelled as RF OUT or TO TV) to the **ANTENNA-IN** socket on the recorder.

- 2 Use a RF antenna cable to connect the **TV-OUT** socket on the recorder to the aerial input socket (or labelled as VHF/UHF RF IN) on your TV.
- 3 Use the scart cable (not supplied) to connect the **EXT1 TO TV-I/O** socket on the recorder to the corresponding scart input socket on the TV.
- 4 Use another scart cable (not supplied) to connect the **EXT2 AUX-I/O** socket on the recorder to the scart output socket (or labelled as TV OUT or TO TV) on the VCR.

Helpful Hints:

- Most commercial video cassettes and DVDs are copy-protected and therefore cannot be recorded.
- Connect the recorder directly to the TV. If there is a VCR or an additional device in between, the picture quality may be poor because of the copy protection system built into this recorder.

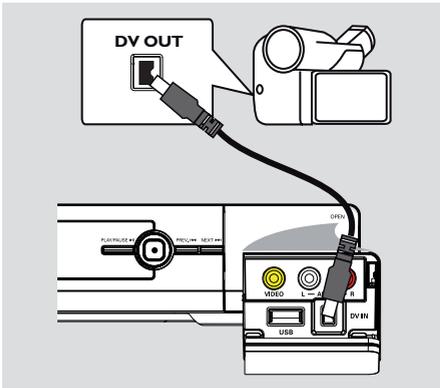
Step 2: Optional Connections (continued)



Connecting to a VCR and Cable Box/Satellite Receiver

- 1 Connect the Antenna/Cable TV signal to the antenna input (RF IN) socket on the Cable Box/Satellite Receiver.
- 2 Use a RF antenna cable to connect the antenna output (RF OUT) socket on the Cable Box/Satellite Receiver to the **ANTENNA-IN** socket on the recorder.
- 3 Use another RF antenna cable (not supplied) to connect the **TV-OUT** socket on the recorder to the antenna input socket on the TV.
- 4 Use a scart cable (not supplied) to connect the **EXT1 TO TV-I/O** socket on the recorder to the corresponding scart input socket on the TV.
- 5 Use another scart cable (not supplied) to connect the **EXT2 AUX-I/O** socket on the recorder to the scart output socket (or labelled as TV OUT or TO TV) on the VCR.
- 6 Use another scart cable (not supplied) to connect the scart input (TV IN) socket on the VCR to the scart output socket (or labelled as TV OUT or TO TV) on the Cable Box/Satellite Receiver.

Step 2: Optional Connections (continued)



Connecting a camcorder to the front sockets

You can use the front sockets to copy camcorder recordings. These sockets are located behind the flap on the right and provides convenient connections for a camcorder.

Option 1: Using the DV IN socket

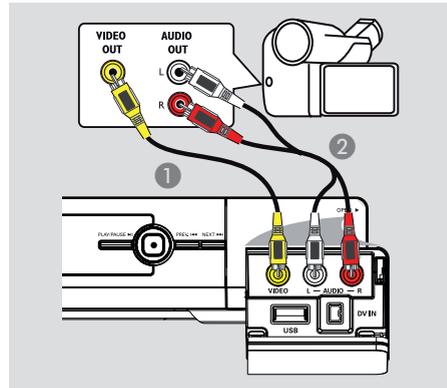
Use this connection if you have a Digital Video or Digital 8 camcorder. The DV socket conforms to the i.LINK standard.

- Use an i.LINK 4-pin cable (not supplied) to connect the **DV IN** socket on the recorder to the appropriate DV OUT socket on the camcorder.

Before you start operating, press **SOURCE** on the remote control repeatedly to select 'DV' as the input channel.

Helpful Hints:

- The DV IN socket does not support a connection to a Personal Computer.
- It is not possible to record from the recorder to your camcorder via the DV IN socket on your recorder.



Option 2: Using the VIDEO In socket

Use the VIDEO connection if your camcorder has only a single video output (Composite Video, CVBS).

- 1 Connect the **VIDEO (CAM)** socket on the front panel of the recorder to the corresponding S-VHS or Video output socket on the camcorder.
- 2 Use an audio cable (red/white ends – not supplied) to connect the **AUDIO L/R** sockets on the front panel of the recorder to the audio output sockets on the camcorder.

Before you start operating, press **SOURCE** on the remote control repeatedly to select 'CAM' as the input channel.

Step 3: Installation and Setup

The installation menu will appear the very first time you turn on this recorder. These settings will help you to set up the basic recorder features easily, including TV programme installation and language settings.

IMPORTANT!

Complete the installation settings before inserting a disc for playback or recording. The disc tray will not open until the initial installation is completed.

- 1 Turn on the TV.
- 2 Press **STANDBY-ON**  to turn on the recorder.
→ Your TV should show the recorder's initial installation screen now – { **Menu Language** } screen.
→ If you do not see the correct video input immediately, select the correct video input on your TV. Refer to your TV's user manual on how to select the correct video input on your TV.



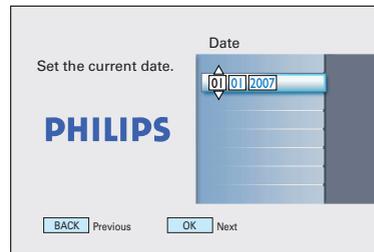
- 3 Use **▲▼** keys on the remote control to select the desired on-screen display language and press **OK** to confirm.

- 4 The country selection screen appears on the TV. This setting is important for automatic installation of TV channels in your area.
→ Use **▲▼** keys on the remote control to select the country you live in and press **OK** to confirm.



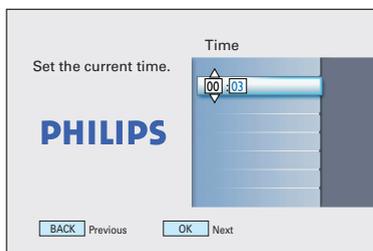
Note: Press the **BACK** button on the remote control to return to the previous screen or press **OK** button to proceed to the next installation step.

- 5 The date entry screen appears.
→ Use the **alphanumeric keypad 0-9** or **▲▼◀▶** keys to enter the correct date. Press **OK** to confirm and continue.



Step 3: Installation and Setup (continued)

- 6 The time entry screen appears.
→ Use the **alphanumeric keypad 0-9** or **▲▼◀▶** keys to enter the correct time. Press **OK** to confirm and continue.



- 8 The first preset programme appears on the screen. The installation is now completed.



- 7 The channel search screen appears on the TV.
→ The recorder will start the channel search. The process will take a few minutes.



- 9 Press **OK** to exit.

The DVD recorder is now ready for use.

Helpful Hint:

– To reinstall, change or modify the TV channels, see the chapter “Setup Menu Options - Tuner settings”.

Notes:

- Ensure that you have successfully made all required connections to this recorder, the TV and Satellite Receiver/Cable Box (if any) and turned them on. The channel search will detect the signals and save all the available programme channels.
- If the satellite receiver is connected to the EXT2 AUX-I/O socket on the recorder, press OK to skip channel search and proceed to the next step.

Recording

Discs for recording

Several different formats of DVD recordable discs can be used:



DVD±RW (DVD Rewritable)

– Discs that are rewritable can be used for multiple recordings once the existing data has been erased.



DVD±R (DVD Recordable)

– Discs can only be used for a single recording. Each new recording is added at the end of all previous recordings as existing recordings cannot be overwritten.

– Editing can be made on any DVD±R discs as long as they have not been finalised (except { A-B Hide }).

– To play a DVD±R on other DVD player, it must be finalised (see the chapter “Edit Recordings - Playback your recordings on other DVD Players (DVD±R)”). After this is done, no more data can be added to the disc.



DVD±R DL (DVD±R Double Layer)

– It contains the same usage as DVD±R, the only difference is the capacity of 8.5 GB. It offers two recordable layers on a single DVD disc. The layers are accessible from the same side of the disc, so recording can occur completely uninterrupted.

Helpful Hint:

– If the recordable DVD contains recordings made on another DVD recorder, you may not be able to add new recordings.

– It is normal to encounter noise when recording to discs of higher media speeds.

– Avoid using discs with labels.

Supported disc types and media speeds

Disc	Media speeds
DVD+R	1x - 16x
DVD+RW	2.4x - 8x
DVD-R	1x - 16x
DVD-RW	1x - 6x
DVD+R DL	2.4x - 8x
DVD-R DL	2x - 8x

IMPORTANT!

Unrecordable pictures

Television programmes, films, video tapes, discs, and other materials may be copy-protected and therefore cannot be recorded on this recorder.

Default recording settings

The default recording settings allow you to set the auto chapter markers, default recording mode and enable the overwrite function.

- 1 Press **SETUP** on the remote control.
→ The setup menu appears on the TV.
- 2 Use **▲▼** keys to select { **Recording** } and press **▶** to confirm.

Setup	Recording	
Tuner	Rec. Quality	SP
Disc	Rec. Language	Language 1
Playback	Auto Chapter	On
Recording	Overwrite	Off
Audio		
Video		
System		

- 3 Use **▲▼** keys to select the setting you wish to change and press **OK** to confirm.
→ Instructions and explanations of the options are provided in the following pages.
- 4 To exit, press **SETUP**.

Recording (continued)

Recording settings (underlined options are the factory default settings)

Rec. Quality

The recording mode defines the picture quality of the DVD recordings and the maximum recording time on a disc. The factory default setting is **SP**.

Record Quality	Hours of recording that can be stored on an empty DVD recordable disc.	
	DVD±R/ DVD±RW	DVD±R Double Layer
HQ (high quality)	1	1 hr 55 mins
SP (standard play)	2	3 hrs 40 mins
SPP (standard play plus)	2.5	4 hrs 35 mins
LP (long play)	3	5 hrs 30 mins
EP (extended play)	4	7 hrs 20 mins
SLP (super long play)	6	12 hrs

Rec. Language

Selects the recording language to be used for TV programmes which are transmitted with an additional audio language. For example, if a programme is available in English and Spanish, with Spanish being the additional language option.

{ **Language 1** } – Original broadcast language.

{ **Language 2** } – Additional audio language.

Auto Chapter

Automatically divides a recording (title) into chapters by inserting chapter markers at a specific interval. This enables you to access a specific point in the recording quickly.

{ **On** } – Chapter markers will automatically be inserted within the title during recording at every 5 (five) minutes interval.
 – (For DVD+R DL discs) Chapter markers will automatically be inserted within the title during recording at every 10 minutes interval.

{ **Off** } – No chapter marker will be inserted in the recording.

Overwrite

This function allows you to overwrite the contents in a DVD±RW automatically whenever you start a new recording.

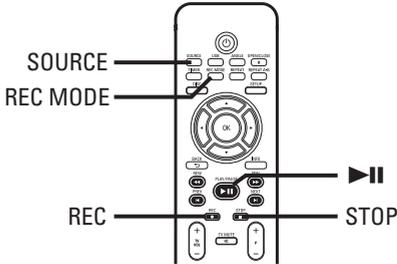
{ **On** } – Enable overwrite function. When you start a new recording on a DVD±RW, the disc will be overwritten from the selected title onwards. Read the section “Using a DVD±RW disc with previous recordings”.

{ **Off** } – Disable overwrite function. The new recording will always start after the last title on the DVD±RW.

Recording (continued)

Manual recording

You can choose to record the TV programme or make a recording from an external device.



- 1 Turn on the TV to the correct viewing channel for the recorder.
- 2 Insert a recordable DVD into the recorder.
- 3 Use **P + / -** keys to select the TV channel you wish to record.
 - **To record from an external device**, press **SOURCE** repeatedly to select the correct input channel that matches the socket which is used to connect the external device.
 - { **CAM** }
 - Input source from the device connected to the CAM and AUDIO L/R sockets on the front panel.
 - { **DV** }
 - Input source from the device connected to DV IN socket on the front panel.
 - { **EXT 2** }
 - Input source from the device connected to the EXT2 AUX-I/O scart socket on the back panel.
- 4 Set a recording mode if necessary, press **REC MODE** repeatedly.

- 5 Press **REC** ● to start recording.
 - If the disc contains some recordings, the new recording will be appended after the last title on the disc. (This is possible if you have disabled the overwrite function. See this chapter "Recording Settings – { Overwrite }").
- To pause the recording, press ►||. To continue recording, press ►|| again.
 - You can use this function to avoid recording commercials.
- 6 To stop the recording, press **STOP** ■.
 - Otherwise, recording continues until the disc is full.

Using a DVD±RW disc with previous recordings

This recorder is built with an overwriting feature which enables you to overwrite previous recordings.

Note: Ensure the overwrite function is enabled. See this chapter "Recording Settings – { Overwrite }").

- 1 Press **DISC** to access the disc menu.
- 2 Use ▲▼◀▶ keys to select the title to overwrite.
- 3 Press **REC** ● to start recording.
 - The new recording will be recorded over the existing title onwards.

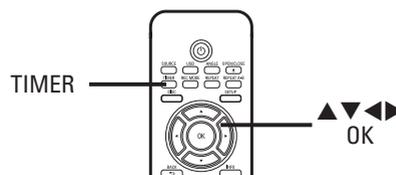
Recording (continued)

Instant time-off recording

- 1 Follow the steps ①~⑤ of “Manual Recording” in the previous section.
 - 2 Press **REC** ● to set the recording time length. Each subsequent press increases the recording time by 30 minutes, up to a maximum of 6 (six) hours.
 - 3 The recorder will stop recording at the designated end time and turn off to standby mode automatically.
- To stop the recording before the scheduled time, press **STOP** ■.

Watching another source during recording

During recording, watch another TV channel or playback from another audio/video device which is connected to this recorder.



Watching playback from another device

This is only possible if the recorder is connected to the TV using the EXT1 TO TV-I/O socket.

- Press **STANDBY-ON** ⏻ to view the picture from the device which is connected to the EXT2 AUX-I/O socket of this DVD recorder.
- To switch back to recorder mode, press **STANDBY-ON** ⏻ on the remote control.

Watching another TV channel

If there is no device connected to the EXT2 AUX-I/O socket, press **STANDBY-ON** ⏻ to switch to TV mode.

- Use the TV's remote control to change the channels.
- To switch back to recorder mode, press **STANDBY-ON** ⏻ on the remote control.

Helpful Hint:

– To watch the TV channel through the recorder or playback the recorded disc, switch the TV back to its video input channel.

Recording (continued)

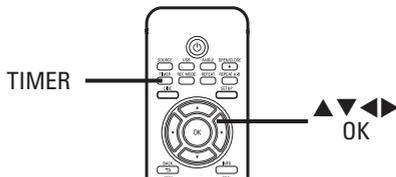
About timer recording

Use 'Timer Recording' to automatically start and stop a recording at a later date/time. The recorder will tune to the right programme channel and begin recording at the specified time.

With this recorder, you can schedule up to **7 recordings** for a limit of one month period. During timer recording, changing of recorder's channel is not possible.

Before you start ...

Make sure that the system clock is correct.



About 'VPS/PDC'

(VPS/PDC is not available in some countries). 'VPS' (Video Programming System) or 'PDC' (Programme Delivery Control) is used to control the start and end time of TV channel recordings. If a TV programme starts earlier or ends later than was scheduled, the recorder will then switch on and off at the correct time.

VPS/PDC is intended to record the entire programme. To set a timer that is longer/shorter than the VPS/PDC broadcast time, you must turn off the VPS/PDC.

Schedule a timer recording

- 1 Turn on the TV to the correct viewing channel for the recorder.
- 2 Press **TIMER** on the remote control.
→ The timer recording list appears.

Timer Recording List								01.01.2007 09:15:10	
Date	Start	End	Source	Quality	VPS/PDC	Repeat	Status		
--/--	--:--	--:--	---	---	---	---	---		

BACK Back TIMER Exit OK Edit

- 3 Select an empty list in the menu and press **OK** to access the timer entry screen.
 - 4 Use **▲▼** keys to change the value of each setting and use **◀▶** keys to move within the entry field.
- You may also use the numeric keypad on the remote control to key in the setting value.
 - { **Date** }
 - Date for recording (day/month).
 - { **Start** }
 - Start time of recording (hours:minutes).
 - { **End** }
 - End time of recording (hours:minutes).
 - { **Source** }
 - Select the TV channel or the correct input source (EXT2 or CAM), which you have used to connect the external device.

Recording (continued)

{ Quality }

- Select the mode of recording:
 - { **Auto** } : Selects the optimal recording mode. (Depends on remaining disc space and length of recording).
 - { **HQ** } : High Quality
 - { **SP** } : Standard Play quality
 - { **SPP** } : Standard Play Plus quality
 - { **LP** } : Long Play quality
 - { **EP** } : Extended Play quality
 - { **SLP** } : Super Long Play quality

See chapter "Recording settings – Recording Quality" for more information.

{ VPS/PDC }

- Turn on/off the VPS/PDC mode.

{ Repeat }

- Select the desired repeat recording setting { **None** }, { **Daily** }, { **Weekly** }, { **Mon-Fri** } (Monday to Friday), or { **Weekend** } (Saturday and Sunday).

{ Status }

- Displays the status of the scheduled recording. Once the timer is scheduled, { **Valid** } appears. If other messages appear, see "Troubleshooting - Problem (Recording)".

- 5 Once complete, press **OK**.
- 6 Press **TIMER** to exit the menu.
- 7 Insert a recordable DVD into the DVD recorder.
- 8 Press **STANDBY-ON** to turn off the recorder to standby mode.

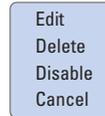
Changing/ Deleting a timer recording

- 1 Turn on the TV to the correct viewing channel for the recorder.
- 2 Press **TIMER** on the remote control.
 - The timer recording list appears.

Timer Recording List							01.01.2007 09:15:10	
Date	Start	End	Source	Quality	VPS/PDC	Repeat	Status	
01.01 Sun	10:00	10:30	P01	SP	Off	None	Valid	
04.01 Wed	12:15	04:00	P05	SP	Off	Daily	Valid	
---	---	---	---	---	---	---	---	

BACK Back TIMER Exit OK Edit

- 3 Use **▲▼** keys to select a timer programme which you want to change/delete, then press **OK**.
 - The edit menu appears.



- **To change the timer schedule**, highlight { **Edit** } and press **OK**. Select the entry field and make the necessary changes, then press **OK** to save.
- **To delete a timer programme**, highlight { **Delete** } and press **OK**.
OR, at the timer recording list, highlight the timer to delete and press **CLEAR**.
- **To stop a repeat timer recording**, highlight { **Disable** } and press **OK**.

Note: To resume repeat timer recording, highlight { **Enable** } the scheduled recording in the edit menu and press **OK**.

- **To exit from the edit menu**, highlight { **Cancel** } and press **OK**.
- 4 Press **TIMER** to exit the menu.

Playback

Playable discs

Using this recorder, you can play and record on the following discs:

Recording and Playback

DVD±RW

(DVD Rewritable);
can be recorded on
over and over again.



DVD±R

(DVD Recordable);
can be recorded
only once.



Playback only:

DVD Video

(Digital Versatile Disc)



CD-RW (CD-Rewritable)

Audio/ MP3/ JPEG contents



CD-R (CD-Recordable)

Audio/ MP3/ JPEG contents



Audio CD

(Compact Disc Digital Audio)



MP3-Disc



Video CD

(Formats 1.1, 2.0)



Super Video CD



DivX®, DivX® Ultra



IMPORTANT!

– If the inhibit icon (X) appears on the TV screen when a key is pressed, it means the function is not available on the current disc or at the current time.

– DVD discs and players are designed with regional restrictions. Before playing a disc, make sure the disc is for the same region as your player.

– Do not push on the disc tray or put any objects other than discs on the disc tray. It may cause the disc player to malfunction.

Starting disc playback

- 1 Press **STANDBY-ON** to switch on the recorder.
- 2 Press **OPEN/CLOSE ▲**.
→ The disc tray opens.
- 3 Carefully place the disc into the tray with the label facing up, then press **OPEN/CLOSE ▲**.
→ Make sure the disc label is facing up. For double-sided discs, load the side as indicated on the label.
- 4 Turn on the TV to the correct viewing channel for the recorder.
- 5 Playback may start automatically.
 - If not, press **DISC** to display the disc content. Select a track/title to play and press **▶II**.
 - For more playback features, see the chapter “Additional Playback Features”.

Playing a DVD video disc

The DVD disc usually contains a disc menu. You may have to make your selection (e.g., subtitle or audio language) within the disc menu.

- 1 Insert a DVD disc.
 - If the disc menu appears on the TV, use ◀▶▲▼ keys to select a play option or use **numeric keypad 0-9** to input your selection and press **OK** to start playback.

To select the previous or next chapter/ title marker

- During playback, press ◀/ ▶.
- 2 To stop playback, press **STOP ■**.

Playing a (Super) Video CD

(Super) Video CDs may feature the 'PBC' (Play Back Control). This allows you to play the video CDs interactively by following the menu on the display.

- 1 Insert a (Super) Video CD.
 - If the disc index menu appears, use the **numeric keypad 0-9** to input your selection or use ▲▼ keys to select a play option and press **OK** to confirm.
 - To return to the previous menu, press **BACK** on the remote control.
 - To turn on/off the Playback Control (PBC) mode, press **INFO** on the remote control during playback, then use ▲▼ keys to select { **PBC On** } or { **PBC Off** }.
- 2 To stop playback, press **STOP ■**.

Playing a DVD recordable disc

- 1 Insert a DVD recordable disc.
- 2 Press **DISC**.
→ The disc menu appears.
- 3 Use ◀▶▲▼ keys to select a title and press ▶|| to start playback.
- 4 To stop playback, press **STOP ■**.

Playing a DivX disc

This recorder supports the playback of DivX movies which you have copied from your computer onto a CD-R/RW, DVD±R/±RW.

- 1 Insert a DivX disc.
- 2 Press ▶|| to start playback.

During playback, you can:

- If multilingual subtitles are embedded on the DivX disc, you can press **SUBTITLE** to change the subtitle language while playing.
- 3 To stop playback, press **STOP ■**.

Note: To select another character set for the subtitle file, see chapter "Playback settings - DivX Subtitle Font".

Helpful Hints:

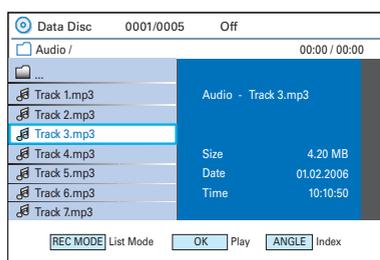
- Subtitle files with the following filename extensions (.srt, .smi, .sub, .sami) are supported.
- It is normal to experience an occasional pixelation during DivX playback due to poor clarity of digital contents during internet downloading.
- To playback DivX 5 files, store both the subtitle file and the DivX movie in the same folder. Ensure the subtitle is saved as the same filename as the DivX movie but retaining its own file extension.

Playback (continued)

Playing an MP3 disc

This recorder can playback most of the MP3 audio files and JPEG picture files recorded on a recordable disc or commercial CD.

- 1 Insert an MP3 disc.
→ The disc content menu appears.
- 2 Use ▲▼ keys to navigate within the menu and press **OK** to access the folder/album.



- If the disc contains many tracks/titles/files, use **PREV** ◀ or **NEXT** ▶ to view the previous/next page of selections.
- To return to the previous level, press **BACK**.
- 3 Use ▲▼ keys to select a track/file and press **OK** to start playback.
- 4 To stop playback, press **STOP** ■.

Helpful Hints:

- Only the first session of a multi-session CD will playback.
- This recorder does not support MP3PRO audio format.
- It may require a longer time for the recorder to display disc content on the TV due to the large number of songs/pictures compiled into one disc.

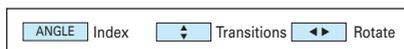
Playing a picture disc (slide show)

You can display JPEG pictures in the selected roll automatically one after the other.

- 1 Insert a JPEG picture disc (CD, CD-R/RW, DVD±R/±RW).
→ The disc content menu appears.
- 2 Use ▲▼ keys to navigate within the menu and press **OK** to access the folder.



- If the disc contains many tracks/titles/files, use **PREV** ◀ or **NEXT** ▶ to view the previous/next page of selections.
- To return to the previous level, press **BACK**.
- 3 Use ▲▼ keys to select a track/file and press **OK** to start slideshow playback.
- 4 During playback, you can access to various settings.
- Press **INFO** to enter or exit the menu. It lists the functions of the keys on the remote control.



To display an index of 12 thumbnail pictures in one screen

- Press **ANGLE**. Use ◀/▶ keys to move to the previous/next page.

To enter/exit the zoom mode

- Press **ZOOM** to enter and change the zoom factor. Use ◀▶▲▼ keys to pan through the zoomed picture.
- To exit from zoom mode and resume slideshow, press **ZOOM** to select { 100% }.

To change slideshow transitions,

- Use ▲▼ keys to toggle between the transition modes.

To rotate the picture,

- Use ◀▶ keys to rotate the current picture.

To view the previous/next file,

- Use ◀/ ▶ keys to select the preferred file.

5 Press **BACK** to return to the main menu.

6 To stop playback and view the content menu, press **STOP** ■.

If the disc contains both MP3 music and JPEG picture files, you can start a musical slide show playback,

- Select an MP3 file and press **OK** to start playback. Then, select a picture file in the menu and press **OK** to start slideshow playback.

Supported JPEG picture formats File format:

- The file extension has to be ‘.JPG,’ ‘.JPE’ or ‘.JPEG.’
- This recorder can only display digital camera pictures according to the JPEG-EXIF format, typically used by almost all digital cameras. It cannot display Motion JPEG or pictures in formats other than JPEG or sound clips associated with pictures.

Helpful Hints:

- Discs created by personal computer may not be able to play on this recorder due to difference in recording techniques. Compatibility with recordable format is not guaranteed.
- It may require a longer time for the recorder to display disc content on the TV due to the large number of songs/pictures compiled into one disc.
- If the JPEG picture is not recorded with an ‘exif’ type file, the actual thumbnail picture will not be shown on the display.

Playback from a USB flash drive/ USB memory card reader

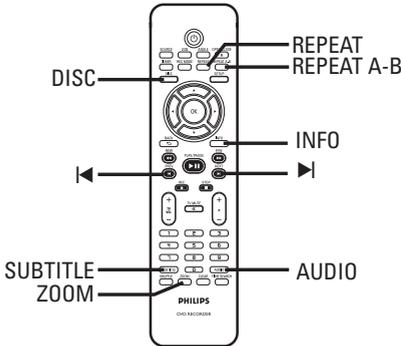
The USB port supports the playback of JPEG/MP3/WMA and DivX files.

- 1 Insert a USB flash drive or USB memory card reader into the USB port.
- 2 Press **USB** on the remote control to access the data in the drive.
→ The content menu appears on the TV.
- 3 Use ▲▼ keys to navigate within the menu and select the file you want to play, then press **OK**.
→ For more playback information, see the previous sections on MP3/WMA and DivX playback in this user manual.
- 4 To stop playback, press **STOP** ■ or remove the USB flash drive/ USB memory card reader from the USB port.

Note:

The USB port does not support playback from a USB hub device. Only brands and models of digital cameras which support USB Mass Storage Device class standard are supported.

Additional Playback Features



Changing to another title/chapter/track

When a disc contains more than one chapter or track, you can change to a different track, title or chapter as follows.

- During playback,
 - Press **▶|** to go to the next chapter/track.
 - Press **◀|** to return to the start of the previous chapter/track.
 - OR
 - Use the **numeric keypad 0-9** to input the chapter/track number.
 - OR
 - Press **INFO** to display the video playback options menu.

Highlight title icon in the menu and press **OK**. Use **▲▼** to change the title number.



Highlight chapter icon in the menu and press **OK**. Use **▲▼** to change the chapter number.



- Press **INFO** to exit the options menu.

Pausing playback / slow motion play

(Not applicable to VCD/SVCD discs)

- 1 During playback, press **▶||** to pause playback and display a still picture.
- 2 To move the still picture one frame backward or forward, press **◀** or **▶** keys repeatedly.
- 3 To start a slow motion play, press **◀◀** repeatedly to cycle through the different slow motion speed (1/16X, 1/8X, 1/4X, 1/2X).
- 4 To resume normal playback, press **▶||**.

Searching forward/ backward

You can fast forward or fast reverse a disc during playback and select a desired search speed.

- 1 During playback, press and hold **◀|** or **▶|** until the search speed status bar (2X) appears on the TV.
→ The sound will be muted.
- 2 Press **◀◀** or **▶▶** repeatedly to cycle through the different search speed (2X, 4X, 8X, 16X, 32X).
- 3 To resume normal playback, press **▶||**.

Additional Playback Features (continued)

Enlarging still images

You can enlarge the picture on the screen and pan through the picture.

- 1 Press **ZOOM** repeatedly to activate zoom.
- 2 Use **▲▼◀▶** keys to pan through the zoomed picture.
- 3 To exit, press **ZOOM** repeatedly until normal size resumes.

Switching camera angles

This option is only available with DVDs that contain sequences recorded from different camera angles. This allows you to view the picture from different angles.

- During disc playback, press **ANGLE** repeatedly to select a desired camera angle available on the disc.
→ If multiple angles feature is supported, the  icon will appear.

Random playback of tracks

You can randomly playback the files/tracks on an audio CD, Video CD (VCD), picture CD, DVD disc or USB drive (e.g. CDDA, MP3, JPEG files).

- 1 During playback, press **SHUFFLE** to activate random playback.
- 2 To cancel random playback, press **SHUFFLE** once again.

Using various repeat modes

You can select various repeat functions during playback.

Repeat playback

The repeat play options vary depending on the disc type.

- 1 During playback, press **REPEAT** to select one of the repeat options.
→ Repeat **TITLE / CHAPTER / ALL** (DVD/DVD±R/±RW).
→ Repeat **TRACK/ TITLE** (VCD/SVCD).
→ Repeat **ONCE/ REPEAT/ REPEAT ALL** (DivX, DivX Ultra, Audio).
- 2 To cancel repeat playback, press **REPEAT** repeatedly to select 'Repeat off' or press **STOP ■**.

Repeating a specific segment (A-B)

You can repeat the playback of a specific segment within a title/chapter track. To do this, you must mark the start and end of the segment you want.

- 1 During playback, press **REPEAT A-B** at the point where you want the repeat playback to begin.
- 2 Press **REPEAT A-B** again at the point where you want to end the repeat playback.
→ Playback skips to the start of the marked segment. The segment is repeated until the repeat mode is cancelled.
- 3 To cancel repeat playback, press **REPEAT A-B** once again.

Additional Playback Features (continued)

Changing subtitle language

This operation works only on DVDs and DivX® Ultra discs with multiple subtitle languages. You can change the language you want during disc playback.

- During disc playback, press **SUBTITLE** repeatedly to toggle through the language options on the disc.
→ If the language selected is not available on the disc, the disc's default setting language will be used instead.

Helpful Hint:

– Some DVDs discs allow subtitle language changes only via the DVD disc menu. To access the disc menu, press **DISC**.

Changing audio soundtrack language

This operation works only on DVDs with multiple soundtrack language or VCDs with multiple audio channel.

- During disc playback, press **AUDIO** repeatedly to toggle through the audio channels and audio language on the disc.
→ If the language selected is not available on the disc, the disc's default setting for language will be used instead.

Helpful Hint:

– Some DVDs allow soundtrack language changes only via the DVD disc menu. To access the Disc Menu, press **DISC**.

Searching by time

This option allows you to skip to a specific point in the current disc.

- 1 During playback, press **TIME SEARCH** to access the time search entry screen.
- 2 Press **OK** on the remote control.
→ The elapsed playing time will change to time input field.



- Use the **numeric keypad (0-9)** to input the 6-digit time.
→ Playback skips to the selected time.

Resuming playback from the last stopped point

This option is only available on DVDs/VCDs. The recorder is able to resume disc playback from its last stopped point.

Before you start..

Make sure that the resume mode setting is turned on, see chapter "Playback settings - Resume".

- Load in a disc and press **▶||** to start playback from the last stopped point.

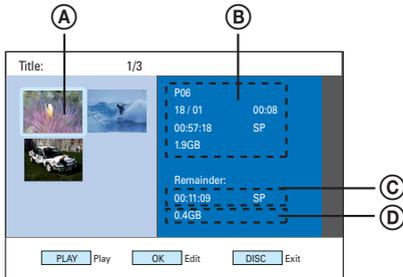
To cancel the resume mode and start playback from the beginning

- When playback stops, press **STOP ■** again.
OR
- Press **◀** to start playback from the first title/track.

Edit Recordings

About the disc menu

The disc menu index screen shows your recordings on a recordable DVD. It should appear on the TV once you load a recordable DVD or when you press the **DISC** on the remote control.



The disc menu index screen consists of the following recording information:

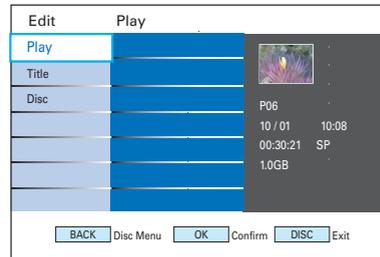
- (A) The thumbnail of the title
- (B) The title name, recording time, recording quality and the disc space used.
- (C) The remaining recording time in different recording mode. Press **REC MODE** to change the recording mode.
- (D) The remaining disc space.

Editing your recordings

After a recording has been made, this recorder allows you to edit the title or video content. You can erase or protect the recording, and rename the recording. If a DVD±R has been finalised, it cannot be edited.

Before you start..

Press **DISC** to display the disc menu index. Select the title to edit and press **OK** to access the editing menu.



{ **Play** }

Play the selected title (recording).

{ **Title** }

Access the title edit menu.

{ **Disc** }

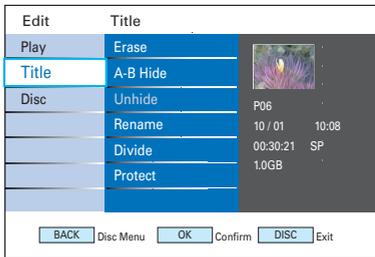
Access the disc edit menu.

Edit Recordings (continued)

Accessing the title edit menu

The title edit menu allows you to erase a title, hide/unhide selected segments, rename, divide it or protect the recording.

- 1 Press **DISC** to access the disc menu.
- 2 Use **▲▼◀▶** keys to select the title to edit and press **OK**.
→ The editing menu appears.
- 3 Use **▲▼** keys to select { **Title** } and press **OK**.



Erasing a recording

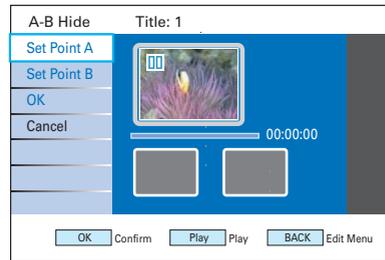
You can delete a specific title (recording) on the recordable DVD disc.

- 1 In title edit menu, use **▲▼** keys to select { **Erase** } and press **OK**.
→ A confirmation message appears.
- 2 To proceed, select { **OK** } in the menu and press **OK** to confirm.
- To abort, select { **Cancel** } and press **OK**.

Hiding a segment in a title (DVD±RW only)

This option allows you to hide unwanted scenes from the recording (e.g. commercial scene). To do so, you have to set the beginning (point A) and end (point B) of the scenes to erase.

- 1 In title edit menu, use **▲▼** keys to select { **A-B Hide** } and press **OK**.
→ The title screen will be in pause mode by default.



- 2 Press **▶||** to start playback.
 - To make a fast search, press **◀◀▶▶** keys.
 - To locate a specific frame during playback, press **▶||** to pause the playback, then press **◀** or **▶** repeatedly.
- 3 With { **Set Point A** } highlighted, press **OK** to set the beginning point.
- 4 Locate the end point of the segment to hide and press **▶||** to pause the playback.
- 5 With { **Set Point B** } highlighted, press **OK** to set the end point.
- 6 To confirm, use **▲▼** keys to select { **A-B Hide** } and press **OK**.

Helpful Hint:

- To recover all hidden scenes, select { **Unhide** } in the title edit menu.

Edit Recordings (continued)

Renaming a title

The original title name is generated automatically by the recorder. You can give a new name to the title by following the steps below.

- 1 In title edit menu, use ▲▼ keys to select { **Rename** } and press **OK**.
→ A keyboard screen appears.
- 2 Use ◀▶ ▲▼ keys to highlight a character/number/symbol and press **OK** to select.
→ The maximum input is up to 16 characters.
- You can use the following keys on the keyboard screen to edit your input. Use ◀▶▲▼ keys to highlight the respective bar.

ABC	: display the letters in upper case.
abc	: display the letters in lower case.
?!#	: display the symbols.
Space	: create a space between the characters.
<X>	: remove the character to the left of the cursor.

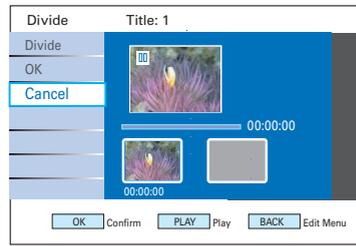
- To switch between upper, lower case characters or symbols input fields, press ◀ or ▶ repeatedly to select the preferred field.
- 3 To confirm, use ▲▼◀▶ keys to select { **Confirm** } and press **OK**.
→ The info panel is now updated.
- To cancel the changes, press **BACK** on the remote control.

Dividing a title (DVD±RW only)

You can divide a title into two or more titles. Note that the title length must be more than 6 (six) seconds.

Warning! Once a title has been divided, it cannot be reversed.

- 1 In title edit menu, use ▲▼ keys to select { **Divide** } and press **OK**.
→ The title screen will be in pause mode by default.



- 2 Press ▶|| to start playback.
 - To make a fast search, press ◀◀▶▶ keys.
 - To locate a specific frame during playback, press ▶|| to pause the playback, then press ◀ or ▶ repeatedly.
- 3 With { **Divide** } highlighted, press **OK** to set the dividing point.
- 4 Use ◀▶ ▲▼ keys to select { **OK** }, press **OK** start divide.
→ Once complete, a new title will be shown at the disc menu index screen.

Edit Recordings (continued)

Protecting the title

You can protect the recorded title in order to prevent accidental loss of recordings.

- 1 In title edit menu, use ▲▼ keys to select { **Protect** } and press **OK**.
→ A confirmation message appears.
- 3 Select { **OK** } in the menu to proceed or { **Cancel** } to abort, then press **OK** to confirm.

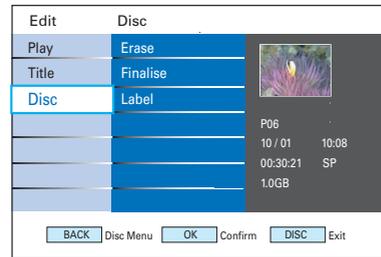
To unprotect a title,

- In title edit menu, use ▲▼ keys to select { **Unprotect** } and press **OK**.
→ A confirmation message appears.
Unprotect the title if you want to erase or edit the title.

Accessing the disc edit menu

The disc edit menu allows you to erase all recordings and prepare a disc for playback on other DVD players.

- 1 Press **DISC** to access the disc menu.
- 2 Use ▲▼◀▶ keys to select any title (except an empty title) and press **OK**.
→ The editing menu appears.
- 3 Use ▲▼ keys to select { **Disc** } and press **OK**.



Erasing all recordings

This option allows you to delete all unprotected titles on the recordable DVD disc.

- 1 In disc edit menu, use ▲▼ keys to select { **Erase** } and press **OK**.
→ A confirmation message appears.
- 2 To proceed, select { **OK** } in the menu and press **OK** to confirm.
- To abort, select { **Cancel** } and press **OK**.

Edit Recordings (continued)

Renaming a disc

The original disc name is generated automatically by the recorder. You can rename the disc by following the steps below.

- 1 In disc edit menu, use ▲▼ keys to select { **Label** } and press **OK**.
→ A keyboard screen appears.
- 2 Use ◀▶ ▲▼ keys to highlight a character/number/symbol and press **OK** to select.
→ The maximum input is up to 16 characters.

- You can use the following keys on the keyboard screen to edit your input. Use ◀▶▲▼ keys to highlight the respective bar.

ABC	: display the letters in upper case.
abc	: display the letters in lower case.
?!#	: display the symbols.
Space	: create a space between the characters.
◀X	: remove the character to the left of the cursor.

- To switch between upper, lower case characters or symbols input fields, press ◀ or ▶ repeatedly to select the preferred field.
- 3 To confirm, use ▲▼◀▶ keys to select { **Confirm** } and press **OK**.
→ The info panel is now updated.
 - To cancel the changes, press **BACK** on the remote control.

Playback your recordings on other DVD Players (DVD±R)

It is necessary to finalise a DVD±R disc before you can play it on another DVD player.

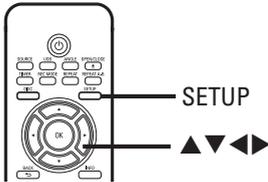
After a DVD±R disc has been finalised, no further recordings or editing can be made to it. Ensure that you have completed all recording and editing before finalising the disc.

- 1 Press **DISC** to access the disc menu.
- 2 Use ▲▼◀▶ keys to select a title and press **OK**.
→ The editing menu appears.
- 3 Use ▲▼ keys to select { **Finalise** } and press **OK**.
→ A warning message appears.
- 4 Select { **OK** } in the menu and press **OK**.
→ Finalisation begins. The process will take a few minutes depending on the length of recordings.
→ Do not open the disc tray or switch off the power as this may render the disc unusable.

Setup Menu Options

Accessing the Setup Menu

The system setup menu provides various options for you to adjust the recorder to suit your preferences.



- 1 Press **SETUP** on the remote control.
→ The system setup menu appears on the TV.
- 2 Use **▲▼** keys to highlight a menu item and press **▶** to access its options.
- 3 Use **▲▼** keys to highlight the setting you wish to change and press **OK** to confirm.
→ Instructions and explanations of the options are provided in the following pages.
- 4 To exit, press **SETUP**.

Setup	Tuner
Tuner	Manage Presets
Disc	Country Germany
Playback	Auto Search
Recording	
Audio	
Video	
System	

See this chapter “Tuner settings”.

Setup	Disc
Tuner	Format
Disc	Lock
Playback	Make Compatible
Recording	Disc Info
Audio	
Video	
System	

See this chapter “Disc settings”.

Setup	Playback
Tuner	Audio Language English
Disc	Subtitle Language Off
Playback	TV Shape 4:3 LB
Recording	Resume On
Audio	DivX(R) VOD DRM
Video	DivX Subtitle Font Central Eur.
System	

See this chapter “Playback settings”.

Setup	Recording
Tuner	Rec. Quality SP
Disc	Rec. Language Language 1
Playback	Auto Chapter On
Recording	Overwrite Off
Audio	
Video	
System	

Note: For recording settings, see the chapter “Recording”.

Setup	Audio
Tuner	Downmix Stereo
Disc	Digital Output Auto
Playback	Night Mode Off
Recording	
Audio	
Video	
System	

See this chapter “Audio settings”.

Setup	Video
Tuner	Video Output SCART RGB
Disc	
Playback	
Recording	
Audio	
Video	
System	

See this chapter “Video settings”.

Setup	System
Tuner	Menu Language English
Disc	Clock Setting 00 : 27 : 30
Playback	Screen Saver On
Recording	Restore Default
Audio	
Video	
System	

See this chapter “System settings”.

Setup Menu Options (continued)

Tuner settings

Manage Presets

Adjust the stored TV channels to your preference. Select this and press **OK** to enter the programme list menu.

- 1) Use **▲▼** keys to highlight the channel to be modified.
- 2) Press **◀** to move to the action bar at the left.
- 3) Use **▲▼** keys to select one of the change options:

Manage Presets						
	PR	Station	Fine	NICAM	Decoder	CH
Move Up	1	P01	0	On	Off	C03
Move Down	2	P02	0	On	Off	S08
Nicam	3	P03	0	On	Off	C05
Decoder	4	P04	0	On	Off	C09
Rename	5	P05	0	On	Off	C21
Manual Setting	6	P06	0	On	Off	C25
	7	P07	0	On	Off	C29

Prev Next Confirm Exit
 Skip

{ **Move Up** }

- Press **OK** to move the highlighted channel up to the previous preset number in the programme list.

{ **Move Down** }

- Press **OK** to move the highlighted channel down to the next preset number in the programme list.

Note: To skip a channel, highlight the preferred channel and press **CLEAR**. The TV channel can only be accessed by pressing the corresponding channel number button on the remote control.

{ **NICAM** }

- NICAM is a digital sound transmission system. It can transmit either one stereo channel or two separate mono channels. Selects { **On** } to improve the sound transmission or { **Off** } if the reception is poor.

{ **Decoder** }

- If the current TV channel is transmitted by coded TV signals that can be viewed properly with a decoder which is connected to the EXT2 AUX-I/O socket, you have to turn on the decoder in order to allocate the connected decoder to this channel. Press **OK** to set the decoder { **On** } or { **Off** }.

{ **Rename** }

- Press **OK** to enter the rename entry field. Use **◀▶▲▼** keys to highlight a character/number/symbol in the keyboard menu and press **OK** to select. Once complete, move to { **Finish** } in the menu and press **OK**.

Note: The maximum input is up to five characters.

You can use the following keys on the keyboard screen to edit your input. Use **◀▶▲▼** keys to highlight the respective bar.

ABC
abc
?!#
Space
<X>

- : display the letters in upper case.
 - : display the letters in lower case.
 - : display the symbols.
 - : create a space between the characters.
 - : remove the character to the left of the cursor.
- To switch between upper, lower case characters or symbols input fields, press **◀** or **▶** repeatedly to select the preferred field.

To confirm, use **◀▶▲▼** keys to select { **Confirm** } and press **OK**.

Setup Menu Options (continued)

Tuner settings (continued)

PR	Seek (MHZ)	CH	Fine	Standard
5	95.25	C21	0	PAL B/G

BACK Back OK OK

{ **Manual Setting** } – Press **OK** to enter the manual setting menu. Use **▲▼** keys to change the setting and **◀▶** keys to move to the previous/next entry field.

{ **PR** }

- The programme preset number of the channel you are currently selected.

{ **Seek (MHZ)** }

- Use **▲▼** keys to seek for a valid frequency transmission.

{ **CH** }

- Use **▲▼** keys to select a TV channel.

{ **Fine** }

- Manually fine-tune the channel. Use **▲▼** keys to increase/decrease the frequency by 0.06~0.07 MHz.

{ **Standard** }

- Use **▲▼** keys to select a TV system standard that produces the least distortion of picture and sound.

Country

Select the country of your area for auto channel tuning.

Note: If another country is selected, auto scanning of available TV channels will begin.

Auto Search

Re-install all TV programme channels on this recorder. Select this and press **OK** on the remote control to start automatic channel search. This process may take several minutes.

Setup Menu Options (continued)

Disc settings

Format

Formatting is required for certain DVD+VR, DVD±RSL/DL and DVD±RW discs before it can be used for recording on this recorder.

- 1) Press **OK** to select.
- 2) A confirmation message will appear. Select { **OK** } in the menu to proceed or { **Cancel** } to abort, then press **OK** to confirm.

Notes:

- This option is required when you are reusing a rewritable DVD data disc (e.g. MP3, JPEG files) for video recording.
- Once the disc has been formatted, all the contents in the disc will be lost.

Lock

In order to prevent the recorded materials from being accidentally erased or edited, you can choose to lock the recordable DVD.

- 1) Press **OK** to select.
- 2) A confirmation message will appear. Select { **OK** } in the menu to proceed or { **Cancel** } to abort, then press **OK** to confirm.

Note: If the current disc is locked, the option in the menu will change to { **Unlock** }. You can also use this option to unlock a DVD±R/±RW recorded on another DVD recorder.

Make Compatible

This function allows you to make an edited DVD±RW disc on another recorder compatible for playback on this recorder.

- 1) Press **OK** to select.
- 2) A confirmation message will appear. Select { **OK** } in the menu to proceed or { **Cancel** } to abort, then press **OK** to confirm.

Note: If the option is not available for selection, it means that the disc is already compatible.

Disc Info

Select this and press **OK** to view the current disc information. To exit the menu, press **BACK**.

- { Label } – The name of the disc.
- { Title No. } – The total number of titles in the disc. In general, the maximum title number is 99.
- { Media } – Disc type.
- { Status } – The status of the disc (recordable, blank, finalised or full).
- { Space } – The used space and total space.
- { Remainder } – Shows the remaining space on DVD recordable disc.



Setup Menu Options (continued)

Playback settings (underlined options are the factory default settings)

Audio Language	Select the preferred audio language for DVD playback.
Subtitle Language	Select the preferred subtitle language for DVD playback. Notes: – If the selected audio/subtitle language is not available on the disc, the disc's default setting language will be used instead. – For some DVDs, the subtitle/audio language can only be changed via the DVD disc menu.
TV Shape	Set the aspect ratio of the recorder according to the TV type you have connected. { 4:3 PS } – Select this for a full-height picture with both side trimmed. { 4:3 LB } – Select this for a 'wide screen' display with black bands on the upper and lower portions of the TV screen. { 16:9 } – Select this for wide screen TV (frame ratio 16:9).
Resume	With this feature, you can resume playback of the last played disc. { On } – Turn on the resume mode. The recorder will resume playback of the last played disc. { Off } – Turn off the resume mode of the last played disc. The recorder will start playback from the beginning when you load a disc. Note: The Resume { Off } feature only applies to playback after the recorder has been switched to standby or after ejecting a disc.
DivX(R) VOD DRM	Select to view the DivX® VOD (Video On Demand) registration code that allows you to rent or purchase videos using DivX® VOD services. For more information, visit www.divx.com/vod . 1) Press OK to display the registration code. 2) Press BACK to return to the previous menu. 3) Use the registration code to purchase or rent videos from DivX® VOD service at www.divx.com/vod . Follow the instructions and copy the video from your computer onto a CD-R/RW or recordable DVD for playback on this recorder. Note: All the downloaded videos from DivX® VOD can only be played back on this recorder.

Setup Menu Options (continued)

Playback settings (continued)

DivX Subtitle Font

Select the font type that supports the recorded DivX subtitle.

- { **Standard** } – Display a standard list of Roman subtitle fonts provided by this recorder.
- { **Central Eur.** } – Display Central European fonts.
- { **Cyrillic** } – Display Cyrillic fonts.
- { **Greek** } – Display Greek fonts.

English

Setup Menu Options (continued)

Audio settings (underlined options are the factory default settings)

Downmix

Select the method for audio downmix to two channels when you play a DVD which is recorded in Dolby Digital format.

- { **LT/RT** } – Select this if the recorder is connected to a Dolby Pro Logic decoder.
- { **Stereo** } – Select this to downmix the multi-channel audio signals to two channels which delivers sound from only the two front speakers.

Digital Output

This setting is only required if you are using the recorder's coaxial socket to connect other audio/video device.

- { **PCM** } – Select this if the connected device is not capable of decoding multi-channel audio. The system will convert the Dolby Digital and MPEG-2 multi-channel signals to PCM (Pulse Code Modulation).
- { **Auto** } – The audio signals will be output according to the audio stream on disc.

Night Mode

This mode optimises playback of sound at low volume. High volume outputs will be softened and low volume outputs are brought upward to an audible level.

- { **On** } – Turn on night mode.
- { **Off** } – Turn off night mode feature. Selects this to enjoy surround sound with its full dynamic range.

Setup Menu Options (continued)

Video settings (underlined options are the factory default settings)

Video Output

Select the type of video output that matches the video connection between this recorder and your TV.

{ **SCART RGB** } – For SCART connection.

{ **YUV P-Scan** } – For component video connection to progressive scan TV. (Use your TV remote control to switch to the correct viewing channel. Refer to your TV's user manual on how to select the correct video input on your TV).

{ **YUV Interlace** } – For component video connection.

Note: Video output setting is not required for S-Video or Composite (CVBS) video connection.

Setup Menu Options (continued)

System settings (underlined options are the factory default settings)

- Menu Language** Select the on-screen menu language for this recorder for on-screen display.
- Clock Setting** Set the date and time. Use ▲▼ keys to change the number and use ◀▶ keys to select different entry field, then press **OK** to confirm.
- { **Manual** } – Select this to manually set the date and time.
- { **Auto** } – Turn on or off the automatic setting of date and time. If enabled, the date and time will be set according to the first preset channel that broadcasts this information.
- Notes:**
- Automatic time date download occurs only when the recorder is switched on or in standby mode.
 - During the update in standby mode, the recorder behaves as follows:
 - 1) The message on the front panel display switches from the current time to 'HELLO'.
 - 2) Once updating completes, the recorder switches back to standby and the current time is displayed.
- Screen Saver** The screen saver prevents damage to the TV screen by avoiding exposure to a static image for too long.
- { **On** } – Switch to TV screen saver mode when playback has been stopped or paused for more than 5 minutes.
- { **Off** } – Turn off the screen saver function.
- Restore Default** Restore all the settings of this recorder, except for any timer programming preset.
- 1) Press **OK** to confirm the default restore.
 - 2) A warning message will appear. Select { **OK** } in the menu to proceed or { **Cancel** } to abort, then press **OK** to confirm.
- After restoring to factory default settings, you will be prompted for the initial setup.**

Installing the latest software

The software installed in your recorder is continuously being refined for greater stability and compatibility of the set. Periodically, Philips will issue upgrades for the software which you copy onto a CD to install the software.

Caution! Power supply must not be interrupted during upgrade!

- Visit Philips' website at 'www.philips.com/support' to check for the availability of the latest software upgrade.

Note: When checking for the latest software upgrade, please also check for any accompanying instructions on installing the software.

Troubleshooting

WARNING

Under no circumstances should you try to repair the system yourself, as this will invalidate the warranty. Do not open the system as there is a risk of electric shock.

If a fault occurs, first check the points listed below before taking the system for repair. If you are unable to remedy a problem by following these hints, consult your dealer for help.

Problem (General)	Solution
No power.	<ul style="list-style-type: none"> – Press STANDBY-ON button on the front of the recorder to switch on the system. – Make sure the AC outlet has power.
Remote control does not work.	<ul style="list-style-type: none"> – Aim the remote control directly at the sensor on the front of the DVD recorder (not towards TV). – Remove any obstacles between the recorder and the remote control. – Batteries are weak, replace the batteries.
No picture.	<ul style="list-style-type: none"> – Turn on your TV and set to the correct Video In channel. Switch the TV channel until you see the DVD screen. Read chapter “Step 3 - Installation and Setup – Finding the correct viewing channel” for details. – Check the video connection between the recorder and the TV.
No sound.	<ul style="list-style-type: none"> – Check the audio connections. Read chapters “Step 1 : Basic Recorder Connections - Connecting the audio cables” for details. – Set the Digital output correctly, based on the device you have connected to the recorder. Read chapter “Setup Menu Options - Audio settings – Digital Output” for details.
No TV signal received from the recorder.	<ul style="list-style-type: none"> – Have your antenna or cable TV signal checked. – Install the TV channel. Read chapter “Setup Menu Options – Tuner Settings” for details.
A TV channel installed during the DVD recorder’s automatic TV channel search is fuzzy or distorted.	<ul style="list-style-type: none"> – Check the video connection between the DVD recorder and the TV. – You can further fine-tune the signal of the TV channel. Read chapter on “Setup Menu Options – Tuner Settings”. – Press P + / – to search for the same TV channel which may have a clearer picture.
Unable to eject tray.	<ul style="list-style-type: none"> – Exit from any on-screen menu. – Press STOP to stop any playback or recording, then press OPEN/CLOSE.

Troubleshooting (continued)

Problem (Playback)	Solution
Disc does not play.	<ul style="list-style-type: none">– Insert the disc with the label facing up.– Wrong region code. The DVD must be coded for ALL regions or Region 2 in order to be played back on this DVD recorder.– There is no recording on the disc or wrong disc type. Read chapter “Playback - Playable discs” for details.– Make sure the disc is not scratched or warped. Clean the disc or replace a new one.– Check if the disc is defective by trying another disc.
Distorted sound coming from a connected hi-fi system or amplifier.	<ul style="list-style-type: none">– Do not connect any cables from the recorder to the ‘Phono’ input of your amplifier.– If you are playing a DTS CD, you have to connect the COAXIAL socket of this recorder to a Hi-Fi system or amplifier.
Unable to play DivX movies.	<ul style="list-style-type: none">– Check that the DivX file is encoded according to the ‘Home Theatre Profile’ mode with DivX encoder.– Check that the DivX movie downloaded is a complete file.
The picture is distorted or black and white during playback.	<ul style="list-style-type: none">– The disc does not match with the TV colour system standard (PAL/NTSC).– The disc is dirty, clean the disc.– Sometimes a small amount of picture distortion may appear. This is not a malfunction.
A DVD±R/±RW recorded on this DVD recorder does not play on a DVD player.	<ul style="list-style-type: none">– If a recording is too short, it is possible that a DVD player cannot detect it. Please observe the following ‘minimum recording times’. Recording mode : {HQ} – 5 mins, {SP} – 10 mins, {SPP} – 13 mins, {LP} - 15 mins, {EP} – 20 mins, {SLP} – 30 mins.– You have to finalise the DVD±R. Read chapter “Edit Recordings - Playback your recordings on other DVD Players (DVD±R)” for details.
There is picture or sound interference with the TV reception.	<ul style="list-style-type: none">– Have your antenna or cable TV signal checked.– Fine-tune your TV channel. Read chapter “Setup Menu Options – Tuner Settings” for details.
The message ‘UNKNOWN DISC’ appears.	<ul style="list-style-type: none">– This message may appear if you insert a disc that may have encountered one of the following:<ul style="list-style-type: none">– Error during recording: The title may be missing.– Error while changing the title/index picture: The original title/index picture may be visible.– Error while finalising or the disc has not been finalised.

Troubleshooting (continued)

Problem (Recording)	Solution
<p>Picture is fuzzy and brightness varies when copying DVD Video discs or prerecorded video cassettes.</p>	<ul style="list-style-type: none">- This happens if you try to copy DVDs or video cassettes that have been copy-protected. Even though the picture on the TV is fine, but the recording on the DVD recordable disc is faulty. This interference is unavoidable with copy-protected DVDs or video cassettes.- The DVD recordable disc has a limited recording lifetime, please change a new disc for recording.
<p>Recordings are not occurring as scheduled. New recordings cannot be made.</p>	<ul style="list-style-type: none">- The TV channel you want to record is not stored or you selected the wrong program number. Check the TV channels stored.- Or, in the timer recording list, you may see one of the following messages in the { Status } column:- { Overlap } : the timer recording overlaps with another timer recording.- { Failed } : There may have been a power cut at the time of the scheduled recording.- { Overdue } : You have to reset the timer recording after adjusting the clock setting.- { Blocked } : The content is copy-protected. You cannot use the recorder to duplicate copy-protected materials (DVDs or videotapes) onto a DVD recordable disc.

Picture/Display

- Aspect ratio: 4:3, 16:9
- D/A converter: 10 bit, 54 MHz
- A/D converter: 10 bit, 27 MHz

Sound

- D/A converter: 24 bit, 192 kHz
- A/D converter: 24 bit, 96 kHz
- Signal to noise ratio: 102 dB
- Crosstalk (1 kHz): 105 dB
- Dynamic Range (1 kHz): 90 dB

Video Recording

- Recording system: PAL
- Compression formats: MPEG2
 - High Quality : HQ
 - Standard Play : SP
 - Standard Play Plus : SPP
 - Long Play : LP
 - Extended Play : EP
 - Super Long Play : SLP
- Audio compression: Dolby Digital, PCM

Video Playback

- Disc playback media: CD, CD-R/-RW, DVD, DVD-Video, SVCD, Video CD, DVD+R/+RW, DVD-R/-RW, DVD+R DL, DVD-R DL
- Compression formats: MPEG2, MPEG1, DivX
- Video disc playback system: PAL, NTSC

Audio Playback

- Disc playback media: CD, CD-R/-RW, MP3-CD, MP3-DVD, DVD+R/+RW, DVD-R/-RW, DVD+R DL, DVD-R DL
- Compression formats: Dolby Digital, MP3, MPEG2 Multichannel, PCM
- MP3 bit rates: 32~256 kbps and VBR

Still Picture Playback

- Disc formats: DVD+R/+RW, DVD-R/-RW, Picture CD, DVD+R DL, DVD-R DL
- Picture compression formats: JPEG
- Picture enhancement: Rotate, Zoom

Storage Media

- Recording media: DVD+R/+RW, DVD-R/-RW, DVD+R DL, DVD-R DL

Tuner/Reception/Transmission

- TV system: PAL
- Aerial Input: 75 Ohm coaxial (IEC75)

Connectivity

Rear Connections:

- SCART (2x)
- S-Video Out
- Video (CVBS) Out
- Component video (Y Pb Pr)Out
- Audio left/right Out
- Digital audio out (coaxial)
- RF antenna in
- RF TV out
- Mains

Front Connections:

- i.LINK DV in (IEEE 1394 4-pin)
- Composite video (CVBS) In (CAM1)
- USB In
- Audio left/right In

Convenience

- Programming/Timer Enhancements: Daily/Weekly, Repeat Programme, Manual Timer, One Touch Recording
- Programmable events: 7

Power

- Power supply: 220 – 240V; 50 Hz
- Consumption: 25 W (typical)
- Standby power consumption: < 3W

Cabinet

- Dimensions (W x H x D) : 360 x 43 x 325 mm
- Net Weight : 3 kg

Frequently Asked Questions

What kind of disc should I use for recording?

You can record on both DVD±R and DVD±RW discs. They are compatible with DVD-Video players and DVD-ROM drives in computers.

What is the capacity of a DVD±R/±RW disc?

4.7GB, or equivalent to six CDs. You can store only one hour of recordings on a single disc at the highest quality (DVD standard) and about 6 hours recordings at the lowest quality (VHS standard).

What is the difference between DVD±R and DVD±RW?

DVD±R is “recordable” and DVD±RW is “rewritable”. With a DVD±R, you can record multiple sessions on the same disc, but when the disc is full, you cannot record any more on the disc. The DVD±RW allows you to record over the same disc repeatedly.

What is DV?

Using DV, also known as i.LINK, you can connect a DV-equipped camcorder to this recorder using a single DV cable for input and output of audio, video, data and control signals.

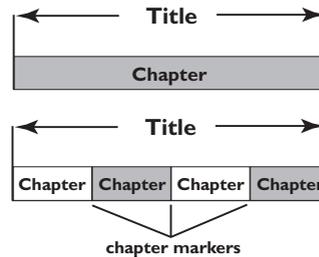
- This recorder is only compatible with DV-format (DVC-SD) camcorders. Digital satellite tuners and Digital VHS video recorders are not compatible.
- You cannot connect more than one DV camcorder at a time to this recorder.
- You cannot control this recorder from external equipment connected via the DV IN socket.

Can I copy a VHS tape or DVD from an external player?

Yes, but only if the VHS tape or DVD is not copy protected.

What are Titles and Chapters?

A DVD disc contains Titles and Chapters, which are similar to the Titles and Chapters of a book. A Title is often a complete movie and is broken down into Chapters, or individual scenes from the movies.



Programmes are recorded as a single title, it may consist of one chapter or a few chapters within a title, depending on the recording settings.

How do I set up Titles?

The recorder automatically creates a new title each time you start a new recording.

What does “finalising” a disc do?

Finalising a disc locks the disc so it can no longer be used for recording. This is only required for DVD±R discs. It will then be compatible with virtually any DVD player. To remove a disc without finalising it, simply stop recording and eject the disc. You will still be able to record on the disc if there is storage space for more recordings.

Frequently Asked Questions (continued)

How good is the quality of the recording?

There are a few quality levels to choose from, ranging from "HQ" - High Quality (1 hour mode) to "SLP" - Super Long Play (6 hours mode). Press the REC MODE key on the remote control to choose the quality level that best suits your purpose and the length of material.

Record Quality	Hours of recording that can be stored on an empty DVD recordable disc.	
	DVD±R/ DVD±RW	DVD±R Double Layer
HQ (high quality)	1	1 hr 55 mins
SP (standard play)	2	3 hrs 40 mins
SPP (standard play plus)	2.5	4 hrs 35 mins
LP (long play)	3	5 hrs 30 mins
EP (extended play)	4	7 hrs 20 mins
SLP (super long play)	6	12 hrs

Why does it take so long to display the contents on my USB device?

- This could be due to the large numbers of files (>500 files/folders) or size of the files (>1MB).
- There could be other non-supported files in the device that the system is trying to read/display.

What if un-supported devices (e.g., USB mouse, keyboards) are plugged into the system?

The device may cause the system to be unstable. Remove the unsupported device and unplug the mains cord. Wait for a few minutes before reconnecting the mains cord and power on the system again.

What happens when I plug in a USB HDD?

HDD is not supported as the large storage capacity makes navigation very difficult. Transfer the music files (mp3) and photos (jpg) into a flash drive.

Why does the system fail to detect my USB portable music player?

The portable music player may require proprietary software and may not work with this system to access the contents (eg. playlist).

What types of file does the system support?

We support only FAT16 and FAT32, not NTFS.

Why does the file name appear to be different from what was displayed on my computer (e.g., from "Good Bye.jpg" to "Good_B~1.jpg")?

- The length of the file name is restricted by the file system of the device (FAT16), which only supports eight (8) characters.
- The computer may be able to display the full file name as the operating system can convert the file system.

Is simultaneous USB and Disc playback possible?

This is not possible due to memory limitation.

Why can't I rotate the pictures in my device?

In order to rotate the pictures in the USB device, the picture must contain EXIF information, stored by most digital cameras. This EXIF information may have been removed when you edit or copy the picture from other devices using editing programmes.

Why can't the system play some of my music files, photos or movies?

The music files may not be playable because of different formats and encoding bit-rates. Similarly, the photos may be of low resolution or too high resolution for the system to support.

Glossary

Analogue: Sound that has not been turned into numbers. Analogue sound varies, while digital sound has specific numerical values. These sockets send audio through two channels, the left and right.

Aspect ratio: The ratio of vertical and horizontal sizes of a displayed image. The horizontal vs. vertical ratio of conventional TVs is 4:3, and that of wide-screens is 16:9.

AUDIO OUT sockets: Red and white sockets that send audio to another system (TV, Stereo, etc).

Chapter: Sections of a picture or a music piece on a DVD that are smaller than titles. A title is composed of several chapters. Each chapter is assigned a chapter number enabling you to locate the chapter you want.

Component Video Out Sockets: Sockets that send high quality video to a TV that has Component Video In sockets (R/G/B, Y/Pb/Pr, etc.)

Digital: Sound that has been converted into numerical values. Digital sound is available when you use the DIGITAL AUDIO OUT COAXIAL. These sockets send audio through multiple channels, instead of just two channels as analogue does.

Disc menu: A screen display prepared for allowing selection of images, sounds, subtitles, multi-angles, etc recorded on a DVD.

DivX: The DivX code is a patent pending, MPEG-4 based video compression technology, developed by DivX Inc., that can shrink digital video to sizes small enough to be transported over the internet, while maintaining high visual quality.

Dolby Digital: A surround sound system developed by Dolby Laboratories containing up to six channels of digital audio (front left and right, surround left and right, centre and subwoofer).

JPEG: A very common digital still picture format. A still-picture data compression system proposed by the Joint Photographic Expert Group, which features small decrease in image quality in spite of its high compression ratio.

MP3: A file format with a sound data compression system. "MP3" is the abbreviation of Motion Picture Experts Group 1 (or MPEG-1) Audio Layer 3. By using the MP3 format, one CD-R or CD-RW can contain about 10 times more data than a regular CD.

MPEG: Motion Picture Experts Group. A collection of compression systems for digital audio and video.

Multichannel: DVDs are formatted to have each sound track constitute one sound field. Multichannel refers to a structure of sound tracks having three or more channels.

PBC: Playback Control. Refers to the signal recorded on video CDs or SVCDs for controlling playback. By using menu screens recorded on a Video CD or SVCD that supports PBC, you can enjoy interactive playback and searching.

PCM: Pulse Code Modulation. A digital audio encoding system.

Region code: A system allowing discs to be played only in the region designated. This unit will only play discs that have compatible region codes. You can find the region code of your unit by looking on the product label. Some discs are compatible with more than one region (or ALL regions).

Glossary (continued)

S-Video: Produces a clear picture by sending separate signals for the luminance and the colour. You can use S-Video only if your TV has an S-Video In socket.

Surround: A system for creating realistic three dimensional sound fields full of realism by arranging multiple speakers around the listener.

Title: The longest section of a movie or music feature on DVD. Each title is assigned a title number, enabling you to locate the title you want.

VIDEO OUT socket: Yellow socket that sends the DVD picture video to a TV.

Display panel symbols/ messages

The following symbols/ messages may appear on your recorder display:

- 00:00:00
Multifunction display/ text line
 - Title/ track number
 - Total/ elapsed/remaining title/track time
 - Additional information regarding the disc
 - TV channel number or source of video
 - Clock (This is displayed in Standby mode).
 - TV programme title

- MENU
A timer recording has been programmed or is active.

- FULL
Disc is full. There is no storage space for new recordings.

- LOAD
Disc is being recognised by the recorder.

- NO DISC
No disc has been inserted. If a disc has been inserted, then it is possible that the disc cannot be read.

- OPEN
Disc tray is opening or opened.

- HELLO
The recorder has been turned on.

- ERR
 - When the DVD inserted is in a wrong region code as the recorder.
 - The recorder has encountered an error in handling the disc inserted.

- STOP
When playback / recording is stopped.

- BUSY
The recorder is writing to the disc.

TV System Guide

COUNTRY	VHF	UHF	DVD REGIONS
AFGHANISTAN	PAL/SECAM B		5
ALBANIA	PAL B	PAL G	2
ALGERIA	PAL B	PAL G	5
ANGOLA	PAL I		5
ARGENTINA	PAL N	PAL N	4
AUSTRALIA	PAL B	PAL H	4
AUSTRIA	PAL B	PAL G	2
AZORES	PAL B		
BAHAMAS	NTSC M		4
BAHRAIN	PAL B	PAL G	2
BANGLADESH	PAL B		5
BARBADOS	NTSC M		4
BELGIUM	PAL B	PAL H	2
BERMUDA	NTSC M		
BOLIVIA	NTSC M	NTSC M	4
BOTSWANA	PAL I		5
BRAZIL	PAL M	PAL M	4
BRUNEI	PAL B	PAL B	
BULGARIA	SECAM D	SECAM K	2
BURKINA FASO	SECAM K1		5
BURMA	NTSC M		
BURUNDI	SECAM K1		5
CAMBODIA	NTSC M		3
CAMEROON	PAL B	PAL G	5
CANADA	NTSC M	NTSC M	1
CANARY ISLANDS	PAL B		2
CHAD	SECAM K1		5
CHILE	NTSC M	NTSC M	4
CHINA	PAL D		6
COLOMBIA	NTSC M	NTSC M	4
COSTA RICA	NTSC M	NTSC M	4
CROATIA	PAL B	PAL G	2
CUBA	NTSC M	NTSC M	4
CYPRUS	PAL B	PAL G	
CZECH REPUBLIC	PAL D	PAL K	2
DAHOMEY	SECAM K1		
DENMARK	PAL B	PAL G	2
DJIBOUTI	SECAM B	SECAM G	5
DOMINICAN REP	NTSC M	NTSC M	4
ECUADOR	NTSC M	NTSC M	4
EGYPT	SECAM B/PAL B	SECAM G/PAL G	2
EL SALVADOR	NTSC M	NTSC M	4
EQUAT. GUINEA	PAL B		5
ESTONIA	PAL B (was SECAM)	PAL D	5
ETHIOPIA	PAL B	PAL G	5
FIJI	PAL B		
FINLAND	PAL B	PAL G	2
FRANCE	SECAM L	SECAM L	2
FRENCH POLYNESIA	SECAM K1		
GABON	SECAM K1		5
GAMBIA	PAL I		5
GERMANY	PAL B	PAL G	2
GHANA	PAL B	PAL G	5
GIBRALTAR	PAL B	PAL H	2
GREECE	PAL B (was SECAM)	PAL G	2
GREENLAND	NTSC/PAL B		2
GUADELOUPE	SECAM K1		
GUAM	NTSC M		1
GUATEMALA	NTSC M	NTSC M	4
GUINEA	PAL K		5
GUYANA (FRENCH)	SECAM K1		4
HONDURAS	NTSC M	NTSC M	4

TV System Guide (continued)

COUNTRY	VHF	UHF	DVD REGIONS
LIBYA	SECAM B	SECAM G	5
LITHUANIA	PAL D (was SECAM)	PAL K	5
LUXEMBOURG	PAL B/SECAM L	PAL G/SEC L	2
MADAGASCAR	SECAM K1		5
MADEIRA	PAL B		
MALAGASY	SECAM K1		
MALAWI	PAL B	PAL G	5
MALAYSIA	PAL B		3
MALI	SECAM K1		5
MALTA	PAL B	PAL H	2
MARTINIQUE	SECAM K1		
MAURITANIA	SECAM B		5
MAURITIUS	SECAM B		5
MEXICO	NTSC M	NTSC M	4
MONACO	SECAM L		2
MONGOLIA	SECAM D		5
MOROCCO	SECAM B		5
MOZAMBIQUE	PAL B		5
NAMIBIA	PAL I		5
NEPAL	PAL B		
NETHERLANDS	PAL B	PAL G	2
NETH. ANTILLES	NTSC M	NTSC M	
NEW CALEDONIA	SECAM K1		
NEW GUINEA	PAL B	PAL G	4
NEW ZEALAND	PAL B	PAL G	4
NICARAGUA	NTSC M	NTSC M	4
NIGER	SECAM K1		5
NIGERIA	PAL B	PAL G	5
NORWAY	PAL B	PAL G	2
OMAN	PAL B	PAL G	2
PAKISTAN	PAL B		5
PANAMA	NTSC M	NTSC M	4
PARAGUAY	PAL N	PAL N	4
PERU	NTSC M	NTSC M	4
PHILIPPINES	NTSC M	NTSC M	3
POLAND	PAL D	PAL K	2
PORTUGAL	PAL B	PAL G (was SECAM D)	2
PUERTO RICO	NTSC M	NTSC M	1
QATAR	PAL B		2
REUNION	SECAM K1		
RUMANIA	PAL D	PAL K	2
RUSSIA	SECAM D	SECAM K	5
RWANDA	SECAM K1		5
SABAH/SAWARA	PAL B		
ST. KITTS	NTSC M	NTSC M	
SAMOA (US)	NTSC M		1
SAUDI ARABIA	SECAM-B/PAL-B	SECAM G	2
SENEGAL	PAL		5
SEYCHELLES	PAL B	PAL G	5
SIERRA LEONE	PAL B	PAL G	5
SINGAPORE	PAL B	PAL G	
SLOVAK REPUBLIC	PAL	PAL	2
SOMALIA	PAL B	PAL G	5
SOUTH AFRICA	PAL I	PAL I	2
SPAIN	PAL B	PAL G	2
SRI LANKA	PAL B		5
SUDAN	PAL B	PAL G	5
SURINAM	NTSC M	NTSC M	4
SWAZILAND	PAL B	PAL G	
SWEDEN	PAL B	PAL G	2
SWITZERLAND	PAL B	PAL G	2
SYRIA	SECAM B		2

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<http://www.philips.com/welcome>



DVDR 3480



3139 245 27232

Philips Customer Care phone numbers:

Austria	0810 000205	€ 0.07/ min
Belgium	078 250 145	€ 0.06/ min
Czech Republic	800 142840	free
Denmark	3525 8759	pstn
Finland	09 2311 3415	pstn
France	0821 611655	€ 0.09/ min
Germany	01803 386 852	€ 0.09/ min
Greece	0 0800 3122 1280	free
Ireland	01 601 1777	pstn
Italy	840 320 086	€ 0.08/ min
Hungary	06 80018 189	pstn
Luxembourg	40 6661 5644	pstn
Netherlands	0900 8407	€ 0.10/ min
Norway	2270 8111	pstn
Poland	022 349 15 04	pstn
Portugal	2 1359 1442	pstn
Slovakia	0800 004537	free
Spain	902 888 784	€ 0.10/ min
Sweden	08 5792 9100	pstn
Switzerland	0844 800 544	pstn
United Kingdom	0870 900 9070	pstn



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