

Table of contents

1 Introduction 3

Dear Philips customer,	3
Regional code	6
Technical data	6
Accessories	6
Important	7
Cleaning the discs	8
Special functions of your new DVD recorder	8

2 Connecting the DVD recorder ... 11

Preparing the remote control for operation	11
Connecting your DVD recorder to the TV set	11
Connecting with a scart cable and 'Easy Link'	13
Connecting with a scart cable without 'Easy Link'	14
Connecting with an S-Video(Y/C)cable	16
Connecting with video(CVBS) cable	17
Connecting additional devices to the second scart socket	18
Connecting additional video recorders	18
Connect camcorder to the front sockets	19
Connecting audio devices to the analogue audio sockets	19
Connecting audio devices to the digital audio socket	20

3 Installing your DVD recorder 21

Initial installation	21
Using a satellite receiver	23
Allocating a decoder	24
Manual TV channel search	25
Sorting TV channels automatically (Follow TV)	26
Automatic TV channel search	28
Sorting and clearing TV channels manually	29
Setting the language/country	30
Setting the time and date	31

4 Information on the TV screen 32

Icons in the menu bar	32
Menu bar 1	32
Menu bar 2	32
Temporary feedback icons	33
Status box	33
Disc type icons	33
Operating mode icons	34
Tuner info box	34
Timer information box	34

5 Playback 35

Playback hints	35
Inserting a disc	35
Playing a DVD video disc	36
Playing a DVD+RW/+R disc	37
Playing an audio CD	38

Playing an MP3 CD	38
Playing a (Super) Video CD	39

6 Additional playback features 40

Changing to another title/chapter	40
Searching a disc	40
Still picture	41
Slow motion	41
Search by time	41
Repeat/Shuffle play	42
Repeat sequence (A-B)	42
Scan feature	43
Zoom feature	43
Camera angle	43
Changing the audio language	44
Subtitles	44

7 Manual recording 45

General information	45
Recording without automatic switch-off	46
Interrupt recording (Pause)	48
Recording with automatic switch-off (OTR-One Touch Recording) ..	48
Protecting the disc against accidental recording	49
Lining up recordings within a title (assemble cut)	50
Selecting the recording mode (quality)	51
Automatic recording from a satellite receiver (Sat Recording)	52
'Direct Record'	53
Switching 'Direct Record' on or off	54

8 Managing the disc contents 55

General Information	55
Editing recording titles (name)	56
Playing back titles	56
Erasing a recording/title	57
Disc settings	57
Changing the disc name	58
Finalising a disc	58
Finalising DVD+R discs	59
Erasing DVD+RW disks	59
Favourite Scene Selection	60
Inserting chapter markers	60
Hiding chapters	60
Erasing chapter markers	61
Changing the index picture	62
Dividing titles	62

9 Programming a recording (TIMER) 63

General information	63
Programming a recording (with the 'ShowView® System')	64
Programming a recording (without the ShowView® System)	66

How to check, change or delete a programmed recording (TIMER) .	67
'NexTView Link'	67
Problem solving for programmed recordings	68

10 User preferences 69

Picture settings	69
Sound settings	70
Language settings	71
Additional settings	71
Remote Control settings	72

11 Access control (Child Lock) 73

Child lock (DVD and VCD)	73
Activating/deactivating child lock	73
Authorising a disc	74
Locking unlocked discs	74
Parental level control (DVD video only)	74
Activating/deactivating parental level control	74
Changing the country	75
Changing the PIN code	76

12 Before you call an engineer 77

The remote control



MONITOR	Monitor: This button lets you switch between the (internal) TV tuner in the DVD recorder (TV picture on the TV set) and playback on the DVD recorder
STANDBY	Switch on or off: To switch set on or off, interrupt menu function, interrupt a programmed recording (TIMER)
TV/DVD	TV/DVD switch: Switches the scart socket EXT 2 AUX I/O directly to the TV set. This lets you watch the picture from any unit connected to this scart socket (set-top box, video recorder or satellite receiver) and at the same time record from another source. If you have not connected a device to scart socket EXT 2 AUX I/O you can use this button to switch between TV reception and DVD recorder. This, however, functions only if you have connected your TV set to the DVD recorder using a scart cable (socket EXT 1 TO TV-I/O) and your TV set reacts to the switching.
T/C	Title/Chapter: Choose the 'T'(Title)/'C'(Chapter) directly from the menu bar If 'INFO' appears in the display, the index menu from a recorded disc or an introductory film will be shown. In this case, this function is not available.
PLAY MODE	Playback type: Choose between repeat, shuffle play and intro-scan
REC. MODE	Record type (quality): To select the maximum possible record time
0..9	Number buttons: 0 - 9
DISC-MENU	Disc menu: To show the DVD menu or the index screen
SYSTEM-MENU	System menu: Call up/cancel the main menu (menu bar at the top of the screen)
SELECT	Select: Select function/value
OK	Store/confirm: To store or confirm entry
◀ ▶ ▲ ▼	Cursor keys: Left, right, up, down
RETURN	Back: Return to previous menu on a video CD (VCD). This function works also on some DVD's.
CLEAR	Delete: To delete last entry or clear programmed recording (TIMER)
CHANNEL +	Plus: Next programme number
CHANNEL -	Minus: Previous programme number
PLAY/PAUSE ▶ 	Playback/pause: Play back a disc. If this button is pressed during playback, the DVD recorder switches to pause. You will see a still picture. If this button is pressed during recording, the DVD recorder will also switch to pause.

PHILIPS

**Select previous title/search backwards:**

Briefly press the button during playback: Previous chapter/film or previous title

Hold down the button: Search backwards

Hold down the button during the still picture: slow motion backwards

**Select next title/search forwards:**

Briefly press the button during playback: Next chapter/film or next title

Hold down the button: Search forwards

Hold down the button during the still picture: slow motion forward



Stop: Stop playback / recording, except with programmed recordings (TIMER)

Hold down the button to open and close the disc tray.



Record: Record the current TV channel



EDIT: For displaying the edit menu for DVD+(RW) discs, for setting chapter markers



TIMER: To program a recording with the ShowView® system / without the ShowView® system or to alter/clear programmed recordings

Additional TV functions



TV volume: Increase TV volume



TV volume: Reduce TV volume

For the following functions you need to hold down the button **DVD/TV** at the side and then select the function you need with the appropriate button.



Number buttons: 0 - 9

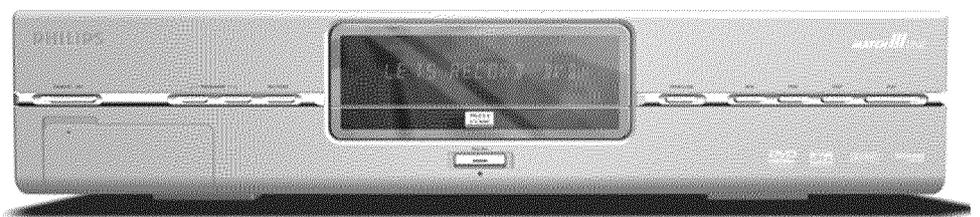


TV programme number: To select a higher programme number



TV programme number: To select a lower programme number

Front of the device



Switch on or off: To switch off or on, interrupt a function, interrupt a programmed recording (TIMER)



Select: Lower programme number



Select: Higher programme number



Record type (quality): To select the maximum possible record time

RECORD	Record: Record the current TV channel
RECORD LED	Recording in progress: Red light on the RECORD button to indicate recording in progress
OPEN/CLOSE	Open/close disc tray: Open/close disc tray
◀◀	Select previous title/search backwards
▶▶	Select next title/search forwards
■ STOP	Stop: Interrupt playback/recording
▶ PLAY/PAUSE	Playback/pause: Play back recorded disc, interrupt playback, still picture

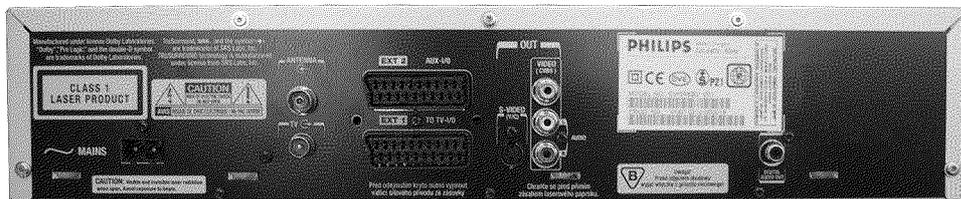
Behind the flap at the left-hand corner on the front



DV	i-Link / DV socket (digital video input, IEEE 1394, FireWire): Connecting a digital camcorder or other suitable device (programme number 'CAM2').
S-VIDEO	S-Video socket: Connection of SVHS/Hi8 camcorders or SVHS/Hi8 video recorders (programme number 'CAM1')
Yellow socket VIDEO	Video input socket: Connection of camcorders or video recorders (programme number 'CAM1')
White/red socket left AUDIO right	Audio input socket left/right: Connection of camcorders or video recorders (programme number 'CAM1')

Switching between sockets **S-VIDEO** and **VIDEO** is done automatically. In case both sockets are used, the signal received at socket **S-VIDEO** is treated with priority.

Back of the unit



~ MAINS	Mains socket: Connection to the mains supply (230V/50Hz)
ANTENNA	Aerial input: Connection of the aerial
TV	Aerial output: Connection of the TV set
EXT 2 AUX I/O	Scart socket 2: Connection of an additional device (satellite receiver, set-top box, video recorder, camcorder, etc.)
EXT 1 TO TV-I/O	Scart socket 1: Connection of a TV set. RGB- output

VPS/PDC	Video programming system / programme delivery control: A VPS or PDC code will be transmitted for the selected TV program
NICAM	The DVD recorder has detected a Nicam audio signal.
STEREO	During playback a HiFi/2 channel tone was detected or a HiFi/2 channel tone was received
	Multi-function display/Text line <ul style="list-style-type: none"> •) Clock •) Disc/title playing time •) OTR switch-off time •) Title name •) Display of programme number of TV channel/position/channel name/function. •) Display of informations, warnings.

Messages in the DVD recorder display



The following messages may appear in your DVD recorder display

<i>IS TV ON?</i>	The DVD recorder is currently in the initial installation mode. Switch on your TV set and read section 'Installing your DVD recorder' in chapter 'Initial Installation'.
<i>NO SIGNAL</i>	No input signal available (signal inadequate or unstable)
<i>MENU</i>	The menu on the screen is active
<i>OPENING</i>	Disc tray opening
<i>TRAY OPEN</i>	Disc tray open
<i>CLOSING</i>	Disc tray closing
<i>READING</i>	Disc being read
<i>MENU UPDT</i>	Once recording has been successfully completed the table of contents is created.
<i>INIT MENU</i>	The menu structure is created after the first recording has been made on a new disc
<i>COPY PROT</i>	You have tried to copy a copy-protected DVD/video cassette.
<i>WAIT</i>	Please wait until this message disappears. The DVD recorder is busy performing a task.
<i>NO DISC</i>	No disc has been inserted for recording. If a disc has been inserted, perhaps it cannot be read.
<i>INFO</i>	Information on the inserted DVD is displayed on the screen
<i>BUSY</i>	The DVD recorder is processing the changes to make them DVD compatible
<i>ERASING</i>	The entire disc is erased

<i>EMPTYDISC</i>	The disc inserted is either new or has been completely erased (no recordings).
<i>PROTECTED</i>	The disc is protected against recording.
<i>MAX TITLE</i>	The maximum number of titles per disc has been reached. The maximum number of titles per disc is 48.
<i>MAX CHAP</i>	The maximum number of chapters per title/disc has been reached. The maximum number of chapters per title is 99, and 124 per disc.
<i>DISC FULL</i>	The disc is full. There is no space for new recordings
<i>PAL DISC</i>	A disc with PAL recordings has been inserted. The machine is trying to record an NTSC signal. Insert a new disc or one that contains NTSC recordings.
<i>NTSC DISC</i>	A disc with NTSC recordings has been inserted. The machine is trying to record a PAL signal. Insert a new disc or one that contains PAL recordings.
<i>RECORDING</i>	An illegal action (e.g. OPEN/CLOSE button) was attempted during recording.
<i>FREETITLE</i>	Playback was started for an empty title or the following title is empty
<i>DISC LOCK</i>	An attempt has been made to record during playback of a protected disc. This message appears if an attempt is made to insert a chapter marker (EDIT button).
<i>DISC ERR</i>	An error occurred when the title was being written. If this error keeps occurring, please clean the disc or use a new one. You will find information on how to clean the disc in the next chapter in the section 'Cleaning the discs'.
<i>DISC WARN</i>	An error occurred when writing the title. Recording was continued; the error was skipped
<i>SETUP</i>	After the automatic channel search, the menu for time/date settings appears on the screen.
<i>WAIT 01</i>	During the automatic channel search, the TV channels found will be counted.
<i>BLOCKED</i>	It is not possible to close/open the disc tray.
<i>SAFE REC</i>	The new recording will be made at the end of all the other recordings (SAFE RECORD).
<i>EASYLENK</i>	The 'EasyLink' function is currently transferring information from the TV set.



Dear Philips customer,

Instruction manuals are usually very dry because they tend to be highly technical and are often poorly translated. I have therefore been employed by Philips to help you.

Allow me to introduce myself.

My name is Phil. I will be guiding you through the instruction manual and helping you get to know your new DVD recorder. At appropriate points along the way, I will be providing you with the following information:



Excuse me?

Here I will be explaining seemingly unimportant things.



Tip

Here I will be giving you instructions on functions that will make it easier for you to use your DVD recorder.



Problem

Here I'll help you identify the cause of a problem and find a solution.



For experts

Here I'll be telling you which functions you'll need for special applications.

I hope you have lots of fun.

Phil

P.S. If you have any problems operating the machine, please read the section entitled 'Before you call an engineer'. If this doesn't help you to resolve the problem, please call the **customer support service** for your country.

The telephone numbers and e-mail addresses can be found on the last page of this instruction manual.



Welcome to the growing family of owners of PHILIPS equipment.

Thank you for buying a DVDR 890/001-021 .

Please take the time to read this operating manual before using your DVD recorder. It contains important information on how to set up and operate the machine.

The machine should **not be placed in a warm room** immediately after transport from a cold room or vice versa. The machine should not be switched on if humidity is very high.

Wait at least **three hours** after transporting the machine. The DVD recorder needs this time to acclimatise to its new environment (temperature, relative humidity, etc.).

Your Philips team hopes your new DVD recorder will bring you many years of enjoyment.

What is a DVD?

DVD (Digital Versatile Disc) is a new storage medium that combines the convenience of the compact disc with the latest digital video technology. DVD video uses modern MPEG2 data compression technology that enables an entire feature film to be stored on a single five inch disc.

How good is the resolution of DVD compared with VHS?

The razor-sharp digital images have a resolution of more than 500 lines of 720 pixels per line. This is more than twice as high as VHS and is even better than the laser disc. Its picture quality is easily comparable to the digital masters produced in recording studios.

What can DVD+RW do?

DVD+ReWritable uses phase change media, the same technology on which rewritable CDs are based. A high-performance laser is used to change the reflective properties of the recording layer; this process can be repeated more than a thousand times.

What can the DVD+R do?

DVD+R (write-once DVD). Unlike a DVD+RW disc, this disc can only be written to once. If it is not finalized after a recording, further recordings can be added to it. Old recordings can be later deleted but they can no longer be overwritten. The deleted recordings (titles) are marked '**Deleted title**'. Before this disc can be played in a DVD player, it must be finalised in the DVD recorder. Once this process is complete, no further recordings can be added.

What can my DVD recorder do?

Your Philips DVD recorder is a machine for recording and playing back digital video discs with "two-way" compatibility with the universal DVD video standard. This means:

-) existing DVD video discs can be played on the recorder.
-) recordings made on your DVD recorder can be played on other DVD video players and DVD ROM drives.



Which discs you can use

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

Playback and recording



DVD+RW (Digital Versatile Disc + rewritable)



DVD+R (Digital Versatile Disc + recordable)

Playback only:



DVD Video (Digital Versatile Disc)



DVD-R (DVD-Recordable)



DVD-RW (DVD-Rewritable) These discs can only be played back if the recording was made in video mode and the recording was finalised.



Audio CD (Compact Disc Digital Audio)



Super Audio CD (Only plays the CD layer of a hybrid SACD disc)



Video CD (format 1.0, 1.1, 2.0)



Super Video CD



CD-R (CD recordable) Audio/ MP3 contents



CD-RW (CD rewritable) Audio/ MP3 contents

Regional code

Since DVD films are not normally released in all parts of the world at the same time, all DVD players have a specific regional code. Discs can be given an optional regional code. If the regional codes differ between the player and the disc, playback is not possible.



DVDs must have the 'ALL' identifier for all regions or '2' for Region 2 for them to play in this machine. If a different region is printed on the DVD you will not be able to play it in this DVD recorder.

The number inside the globe indicates a region of the world.

Regional code 2 includes:

Japan, Europe, South Africa, Middle East (incl. Egypt).

Technical data

Voltage: 220-240V/50Hz

Power consumption: 25W

Power consumption (standby): less than 3W (clock display off)

Measurements in cm (W/H/D): 43.5/8.8/32.6 (Disc tray closed), 46.1 (disc tray open)

Weight without packaging approx.: 4.0 kg

Power outage/no power: Channel and timer information remain saved for up to 1 year, the time is saved for up to 12 hours.

Operating position: maximum 10 degree inclination in all directions

Ambient temperature: 15°C - 35°C

Humidity: 25% - 75%

Accessories

Operating instructions

Guarantee booklet

Quick install guide

Remote control and batteries

Aerial cable

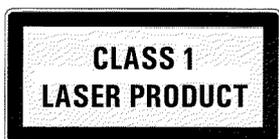
Mains cable

Scart cable (AV-Euro cable)

Audio cable (Cinch cable with red/white connector)

Video cable (Cinch cable with yellow connector)

DVD+RW disc



Important

Caution:

Visible and invisible laser radiation. If the cover is open, do not look at the beam.

Because of the risk of eye injuries, only qualified service engineers should open the machine and carry out maintenance or repair work.

LASER

Typ: InGaAlP (DVD), AlGaAs (CD) semiconductor laser

Wavelength: 660nm (DVD), 780nm (CD)

Output power (outside the lens): 20mW (DVD+RW write), 0.8mW (DVD read), 0.3mW (CD read).

Beam divergence: 82 Grad (DVD), 54 Grad (CD)



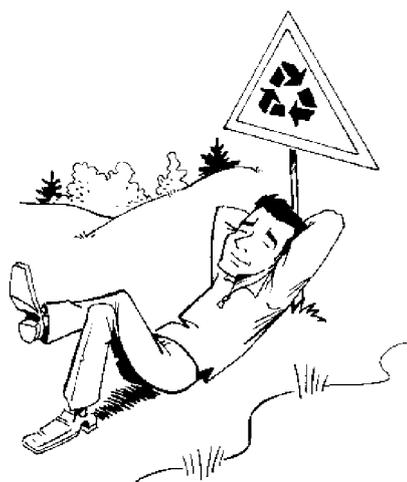
Danger. High voltage! Do not open.

You run the risk of getting an electric shock.

The machine does not contain any user-serviceable parts. Please leave all maintenance work to qualified personnel.

There are some components in the DVD recorder that keep running as long as the recorder is connected to the power supply. To switch off the DVD recorder completely you must unplug it from the power supply.

If you disconnect the DVD recorder from the mains, make sure to pull out the mains plug from the wall outlet and not only the plug from the socket **~ MAINS** at the back of the unit. Children playing near the device could suffer injuries at the free end of the cable.



These operating instructions have been printed on non-polluting paper.

Please dispose of old batteries safely.

Please take the packaging to your local recycling centre.

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.



When installing the recorder in a cupboard ensure there is a gap of approximately 2.5 cm (1 inch) around the recorder to enable air to circulate freely and prevent overheating.

Make sure that air can circulate freely through the ventilation slots on the machine. The machine should be placed on a firm surface.

Make sure that no objects or liquids enter the DVD recorder. Do not place vases or similar on the DVD recorder. If you spill liquid in the recorder, immediately disconnect it from the power supply and call after-sales service for advice.

Keep the DVD recorder away from radiators and other heat sources and protect from direct sunlight.

Do not place any combustible objects on the device (candles, etc.).

Make sure that children do not place any foreign objects in the openings.

Cleaning the discs

Some malfunctions (frozen or distorted picture and broken sound for example) are due to dirt on the disc. To avoid such problems you should clean your discs regularly.

- 1 Dirty discs should be cleaned with a soft cloth. Always wipe from the middle to the edge.
- 2 Do not use any solvents such as benzine, thinners, commercially available cleaning agents or antistatic sprays designed for vinyl records.

Can I use a CD lens cleaner in the DVD recorder?

Since the optical unit (laser) of the DVD recorder operates at a higher power level than the ones in normal DVD and CD players, such CD lens cleaner discs may actually damage the optical unit (laser).

Therefore, refrain from using a CD lens cleaner disc!



Special functions of your new DVD recorder

Your PHILIPSDVD recorder has a number of special functions to make it easier to use and to enhance your enjoyment.

easy LINK

Philips provides the best possible connection between your DVD recorder and other home cinema equipment.

Cinematic
Cinematic
FOLLOW...
...TV

The DVD recorder will be controlled by external devices (receivers, TV sets and so on) via Cinema Link and automatically set to the right system settings.

This function automatically transfers all the television channel settings onto your DVD recorder via the scart cable (socket EXT 1 TO TV-I/O).

Automatic
SATELLITE
Recording

Recordings made on your DVD recorder can be controlled from an external satellite receiver.

Direct Record

At the touch of a button, your switched off DVD recorder will check which channel is currently playing on your television and record it.



This connector is also known as a 'FireWire' or 'IEEE 1394'. This connector is used to transmit wide digital broadband signals that are used for digital video camcorders. Audio and video signals are transmitted using a cable. In addition to DV and Hi8 camcorders, PCs with digital video output can also be connected to the digital input.



Using the virtual surround process, a room with two speakers is simulated. The signal is processed so that the impression of a room is created. The process used in this DVD recorder is based on TruSurround technology from SRS Labs.

TruSurround and the SRS symbol are trademarks of SRS Labs., Inc. TruSurround Technology is used under license from SRS Labs., Inc.



This screen provides you with an overview of the inserted disc. Each index screen represents a recording. On the right hand side of the screen you can also see a disc indicator that shows the position and length of the current recording on the disc in a graphic format.



This function enables you to simply delete commercials or other scenes. The relevant scenes are marked and skipped as required. This information is stored on the DVD in such a way that other DVD players will skip the scenes.



MP3 files are highly compressed music files. The data is compressed to 1/10 of the volume of the original audio material using a special process. This means that 10 hours of music can be stored on a single CD.

These music CDs can be played on this machine.

Safe Record

Normally a recording is made at the current disc position. This is the same as for a video cassette, in the middle of the tape for example. By holding down the **REC/OTR** button, the recording will be made at the end of all the other recordings to avoid overwriting previous recordings.

New recordings on a DVD+R disc will always be added at the end of all existing recordings.



Using your DVD recorder you can record from an RGB source such as a satellite receiver using a SCART input (socket **EXT 2 AUX I/O**). Video signals for the colours R(Red), G(Green) and B(Blue) are transmitted via separate channels. This reduces the interference that occurs with standard video cables.



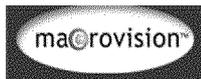
The Philips DVD recorder can play back pre-recorded DVDs and CDs. DVDs recorded using this DVD recorder can be played back on current and future DVD players.



Dolby Laboratories standard for transmitting 5.1 channels. Five full-value channels are transmitted in this acoustic playback system. A further channel is used for low frequencies (effects). The loudspeakers are arranged front left, front middle, front right, rear left and rear right. This system is currently the most common system and is used in cinemas.

With this DVD recorder each DVD+RW is recorded in 2-channel Dolby Digital.

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.



This product contains copy protection technology, which is protected by US Patent Nos. 4631603, 4577216 and 4819098 and other intellectual property rights. Use of this copy protection technology from Macrovision Corporation requires the approval of Macrovision. It is intended exclusively for home use and other limited pay-per-view applications, unless Macrovision approves some other use in writing. Modifications to the equipment, removal of components and reverse engineering are prohibited.



Simple programming system for DVD recorders. Makes programming as easy as making a telephone call. Enter the respective programme number. You'll find this number in your television listings magazine.

ShowView is a registered trademark of Gemstar Development Corporation. The ShowView system is manufactured under licence from Gemstar Development Corporation.

Enter the serial number here. You will need it for service queries or if your machine is stolen. The serial number (PROD. NO.) is printed on the type plate at the back.

MODEL NO.	DVDR 890/001-021		PHILIPS
PROD. NO.		

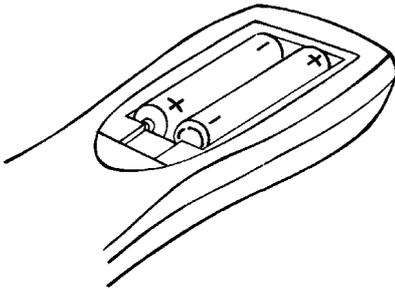


This product complies with the requirements of the following directives and guidelines: 73/23/EEC + 89/336/EEC + 93/68 EEC.

2

Connecting the DVD recorder

Preparing the remote control for operation



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

- 1 Take the remote control of the DVD recorder and the enclosed batteries (2 batteries).
- 2 Open the battery compartment, insert the batteries as shown and then close the battery compartment.

The remote control is now ready to use. Its range is approximately 5 to 10 meters.



'Aim' correctly

In the following sections, you will need the remote control for the first time. Always point the front of the remote control at the DVD recorder and not at the TV set.

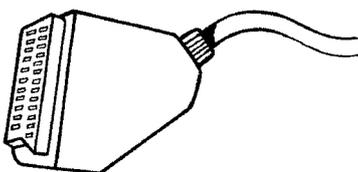
Tip

Connecting your DVD recorder to the TV set

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

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

We recommend that you use a scart cable to connect your TV set and DVD recorder.



What is a scart cable?

The scart or Euro AV cable serves as the universal connector for picture, sound and control signals. With this type of connection, there is practically no loss of quality in picture or sound transmission.

?

When you install your DVD recorder for the first time, select one of the following options:

'Connecting with a scart cable and Easy Link'

If your TV set is equipped with 'Easy Link, Cinema Link, NexTVView Link, Q-Link, Smart Link, Megalogic, Datalogic, ...' and you wish to use a scart cable.

What is Easy Link?

If your TV set is equipped with functions such as Easy Link, Cinema Link, NexTVView Link, Q-Link, Smart Link, Megalogic or Datalogic, which are fully compatible with one another (TV set, DVD recorder, etc.), your DVD recorder can exchange information with your TV set. Please see your TV's operating instructions.



'Connecting with a scart cable without Easy Link'

If your TV set is not equipped with 'Easy Link, Cinema Link, NexTVView Link, Q-Link, Smart Link, Megalogic, Datalogic, ...' and you wish to use a scart cable.

'Connecting with an S-Video (Y/C) cable'

If your TV set is equipped with an S-Video (SVHS) socket.

What is an 'S-Video (Y/C) cable'?

This connecting cable, also known as the SVHS cable, is used to transmit the brightness signal (Y signal) and colour signal (C signal) separately. This mini DIN socket/plug is also called a Hosiden socket/plug.



'Connecting with video (CVBS) cable'

If your TV set is equipped only with a video (CVBS) socket.

What is 'Video (CVBS)'?

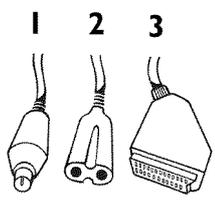
This socket, usually referred to as the Cinch socket, is used for transmitting the composite video signal (FBAS, CVBS). In this method of transmission the colour signal and the brightness signal are transmitted on the same cable. In certain circumstances, this can lead to problems with the picture, such as 'Moiré' patterns.



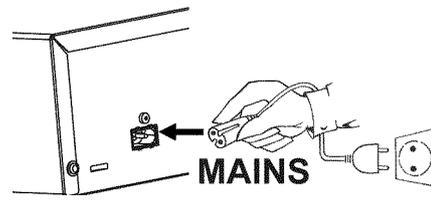
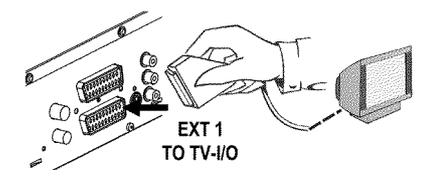
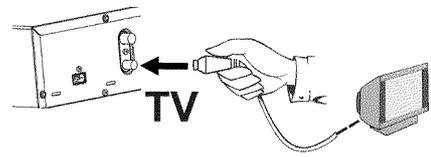
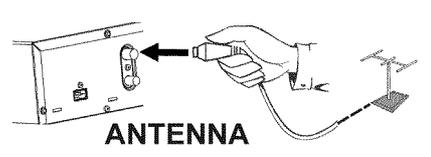
Connecting with a scart cable and 'Easy Link'



Your DVD recorder can exchange information with your TV set using 'Easy Link'. Your TV channels can also be transferred in the same order from your TV set to your DVD recorder using 'Easy Link'.



Have the following cables ready: an aerial cable (1, supplied), a mains cable (2, supplied), a special (full) scart cable (3, suitable for Easylink).



- 1 Switch off your TV set.
- 2 Remove the aerial cable plug from your TV set. Insert it into the **ANTENNA** socket at the back of the DVD recorder.
- 3 Insert one end of the supplied aerial cable into the **TV** socket at the back of the DVD recorder and the other end into the aerial input socket at the back of the TV set.
- 4 Plug a special (full) scart cable (for Easylink) into the scart socket **EXT 1 TO TV-I/O** at the back of the DVD recorder and the corresponding scart socket at the back of the TV set (see TV set operating instructions).
- 5 Switch on the TV set.
- 6 Insert one end of the supplied mains cable into the mains socket **~ MAINS** at the back of the DVD recorder and the other end into the wall socket.
- 7 A message appears on the screen announcing that the transfer has started. 'EASYLENK' appears on the display during transfer. The TV set transfers all stored TV channels, in the same order, to the DVD recorder. This may take several minutes.



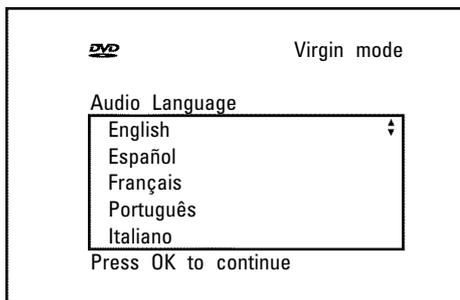
***'Time', 'Year', 'Month', 'Date' appears on my TV screen for confirmation**

Normally, the date and time are transferred from the data of the TV channel that is stored under programme P01. If the aerial signal is too weak or disrupted, you must manually set the time and date:

- 1 Check if the time in line '**Time**' is correct.
- 2 If required, change the time with the number buttons **0..9** on your remote control.
- 3 Select the next line with **▲** or **▼**.
- 4 Check the displayed settings for: '**Year**', '**Month**' and '**Date**'.
- 5 When all information is correct, save by pressing **OK**.



Problem



***I can see more installation menus on my TV set**

Not all the necessary data has been transferred. Please enter the settings by hand as follows. For more information on the various functions see 'Initial installation' in 'Installing your DVD recorder'.

- 1 Select the desired audio language using **▼** or **▲** and confirm with **OK**.
- 2 Select the desired subtitle language with **▼** or **▲** and confirm with **OK**.
- 3 Select the desired picture format using **▼** or **▲**.

'4:3 letterbox' For a 4:3 TV set; cinema format (black bars above and below the picture)

'4:3 panscan' For a 4:3 TV set; full height format with the sides cut off

'16:9' For a 16:9 TV set

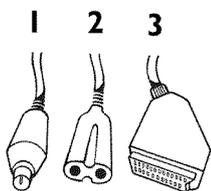
- 4 Confirm with **OK**.
- 5 Select your country with **▼** or **▲**.
If your country does not appear, select '**Other**'.
- 6 Confirm with **OK**.



Problem

Initial installation is now complete.

Connecting with a scart cable without 'Easy Link'

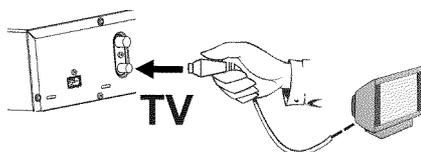


Have the following cables ready:

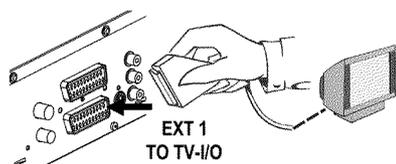
an aerial cable (1, supplied), a mains cable (2, supplied), a scart cable (3).



- 1 Remove the aerial cable plug from your TV set. Insert it into the **ANTENNA** socket at the back of the DVD recorder.



2 Insert one end of the supplied aerial cable into the **TV** socket at the back of the DVD recorder and the other end into the aerial input socket at the back of the TV set.



3 Plug a scart cable into the scart socket **EXT 1 TO TV-I/O** at the back of the DVD recorder and the scart socket for the DVD recorder at the back of the TV set (see TV set operating instructions).

My TV set has several scart sockets. Which one should I use?

Select the scart socket that is suitable for both video output and for video input.

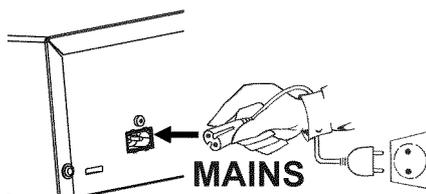
My TV set shows me a selection menu for the scart socket

Select 'VCR' as the source for this scart socket.

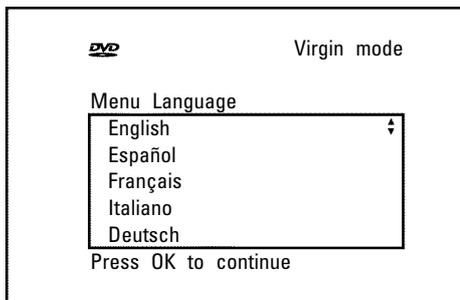


4 Switch on the TV set.

5 Insert one end of the supplied mains cable into the mains socket **~ MAINS** at the back of the DVD recorder and the other end into the wall socket. '15 TV ON?' will appear on the display.



6 If the connection was properly made and your TV was **automatically switched** to the programme number for the scart socket, e.g. 'EXT', '0', 'AV', you will see the following picture:



*** My screen is empty.**

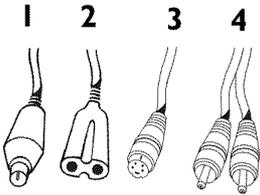
- ✓ Many TV sets are switched by the DVD recorder to the programme number for the scart socket by way of a control signal sent through the scart cable.
- ✓ If the TV set does not automatically switch to the scart socket programme number, manually change to the corresponding programme number on your TV set (see your TV's operating instructions).
- ✓ Check that the scart cable is connected from the TV set to the **EXT 1 TO TV-I/O** socket on the DVD recorder. The **EXT 2 AUX I/O** socket is intended only for additional devices.



Problem

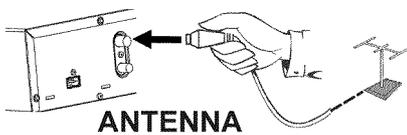
Then, read the paragraph on 'Initial installation' in 'Installing your DVD recorder'.

Connecting with an S-Video(Y/C)cable

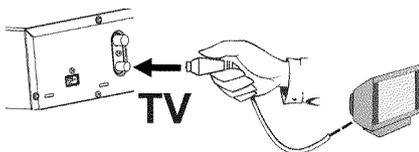


Have the following cables ready:

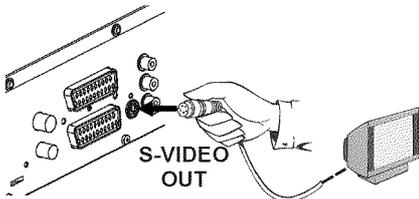
an aerial cable (1, supplied), a mains cable (2, supplied), an S-Video (SVHS) cable (3), an audio cable (4, supplied, red/white plug).



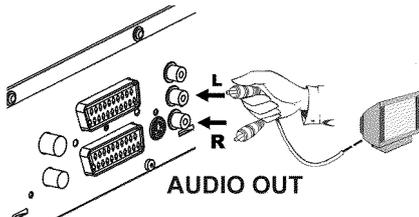
- 1 Remove the aerial cable plug from your TV set. Insert it into the **ANTENNA** socket at the back of the DVD recorder.



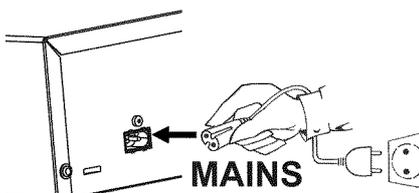
- 2 Insert one end of the supplied aerial cable into the **TV** socket at the back of the DVD recorder and the other end into the aerial input socket at the back of the TV set.



- 3 Insert one end of a S-Video (SVHS) cable into the **OUT S-VIDEO (Y/C)** socket at the back of the DVD recorder and the other end into the S-Video (SVHS) input socket on the TV set (usually labelled 'S-Video in' or 'SVHS in'. See TV operating instructions).



- 4 Insert one end of the supplied audio (Cinch) cable into the red/white Cinch socket **OUT L AUDIO R** at the back of the DVD recorder and the other end into the audio input socket (usually red/white) on the TV set (usually labelled 'Audio in' or 'AV in'. See TV operating instructions).

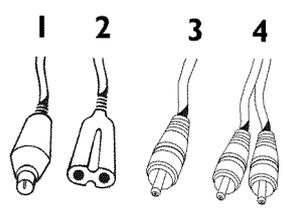


- 5 Switch on the TV set. Switch the TV set over to this input socket or select the relevant channel number. Please see your TV's operating instructions for the channel number you need.

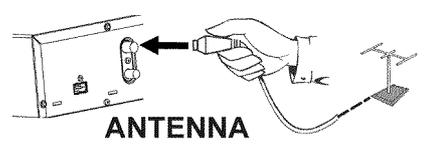
- 6 Insert one end of the supplied mains cable into the mains socket **~MAINS** at the back of the DVD recorder and the other end into the wall socket. '15 TV ON?' will appear on the display.

Then, read the paragraph on 'Initial installation' in 'Installing your DVD recorder'.

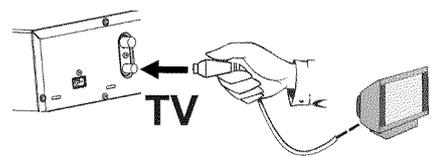
Connecting with video(CVBS) cable



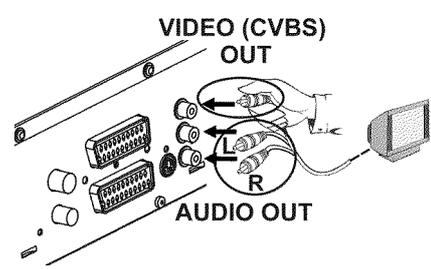
Have the following cables ready:
 an aerial cable (1, supplied), a mains cable (2, supplied), a video (CVBS) cable (3, supplied, yellow plug), an audio cable (4, supplied, red/white plug).



1 Remove the aerial cable plug from your TV set. Insert it into the **ANTENNA** socket at the back of the DVD recorder.



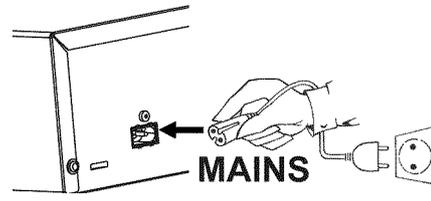
2 Insert one end of the supplied aerial cable into the **TV** socket at the back of the DVD recorder and the other end into the aerial input socket at the back of the TV set.



3 Insert one end of the supplied video (CVBS) cable into the yellow Cinch socket **OUT VIDEO (CVBS)** at the back of the DVD recorder and the other end into the video input socket (usually yellow) on the TV set (usually labelled 'Video in' or 'AV in'. See TV operating instructions).

4 Insert one end of the supplied audio (Cinch) cable into the red/white Cinch socket **OUT L AUDIO R** at the back of the DVD recorder and the other end into the audio input socket (usually red/white) on the TV set (usually labelled 'Audio in' or 'AV in'. See TV operating instructions).

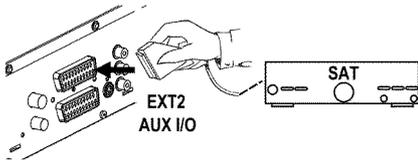
5 Switch on the TV set. Switch the TV set over to the Video/Audio input socket or select the relevant programme number. Please see your TV's operating instructions for the programme number you need.



6 Insert one end of the supplied mains cable into the mains socket **~ MAINS** at the back of the DVD recorder and the other end into the wall socket. '15 TV ON?' will appear on the display.

Then, read the paragraph on 'Initial installation' in 'Installing your DVD recorder'.

Connecting additional devices to the second scart socket



You can connect additional devices such as decoders, satellite receivers, camcorders, etc. to the **EXT 2 AUX I/O** socket. When playback is started on this additional device the DVD recorder automatically connects the **EXT 2 AUX I/O** scart socket with the **EXT 1 TO TV-I/O** scart socket. You will then see the picture from the additional device on your TV set, even if the DVD recorder is switched off.

The **TV/DVD** button on the remote control allows you to switch between playback through the **EXT 2 AUX I/O** scart socket and playback from the DVD recorder.

Connecting additional video recorders

You can connect a video recorder to the **EXT 2 AUX I/O** socket. If you have an SVHS video recorder you can additionally use the **OUT S-VIDEO (Y/C)** socket and the **OUT L AUDIO R** sockets.

Please note:

Most pre-recorded video cassettes and DVDs are copy-protected. If you try to copy them you will see the message 'COPY PROT' on the DVD recorder's display.

***When copying video cassettes the display on the DVD recorder shows 'NO SIGNAL'.**

- ✓ Check that the scart cable is plugged in firmly.
- ✓ The DVD recorder may not be able to recognise the video input signal if this signal is poor or does not comply with relevant standards.

***When I copy DVD video discs or pre-recorded video cassettes the picture is fuzzy and the brightness varies**

- ✓ 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 the recording on a DVD+R(W) is faulty. This interference is unavoidable with copy-protected DVDs or video cassettes.



Problem

Connect camcorder to the front sockets

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

Best Picture Quality

If you have a DV or Digital 8 camcorder, connect the **DV** input of the DVD recorder to the appropriate DV output on the camcorder.

Very good Picture Quality

If you have a Hi8 or S-VHS(C) camcorder, connect the **S-VIDEO** input of the DVD recorder to the appropriate S-VHS output on the camcorder.

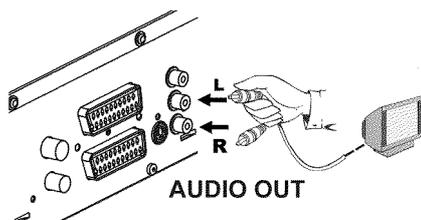
You must also connect the audio input **left AUDIO right** on the DVD recorder to the audio output on the camcorder.

Good Picture Quality

If you have a camcorder that only has a single video output (Composite Video, CVBS), connect the **VIDEO** input on the DVD recorder to the appropriate output on the camcorder.

You must also connect the audio input **left AUDIO right** on the DVD recorder to the audio output on the camcorder.

Connecting audio devices to the analogue audio sockets



Two analogue audio sockets **OUT L AUDIO R** (audio signal output left/right) are located at the back of the DVD recorder.

These can be used to connect the following:

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

Can I use the 'Phono' input on my amplifier?

This socket (input) on the amplifier is designed only for record players without preamplifiers. Do **not** use this input for connecting the DVD recorder.

The DVD recorder or the amplifier may be damaged as a result.



Connecting audio devices to the digital audio socket



At the back of the DVD recorder there is a digital audio output socket **DIGITAL AUDIO OUT** for an coaxial cable.

These can be used to connect the following:

- an **A/V receiver or an A/V amplifier with a digital multi-channel sound decoder**
- a receiver with **two-channel digital stereo (PCM)**

Digital multi-channel sound ?

Digital multi-channel sound offers the best possible sound quality. You will need a multi-channel A/V receiver or amplifier that supports at least one of the audio formats of the DVD recorder (MPEG2, Dolby Digital and DTS). Consult the operating instructions for your receiver to find out which audio formats it supports.

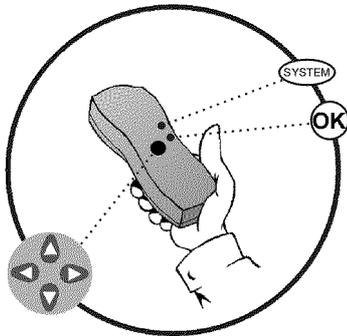


× All I can hear from my loudspeakers is a loud distorted noise

✓ The receiver is not compatible with the digital audio format of the DVD recorder. The audio format of the DVD disc is displayed in the status window when you switch to another language. Playback in six-channel digital surround sound is only possible if the receiver has a digital multi-channel sound decoder.



Initial installation



After successfully connecting your DVD recorder to the TV set and other additional devices as described in the previous chapter, this chapter will show you how to start the initial installation. The DVD recorder automatically seeks out and stores all available TV channels.

Aim correctly with the remote control

In the following sections, you will need the remote control for the first time. Aim the remote control at the DVD recorder and not at the TV set.

Connecting additional devices

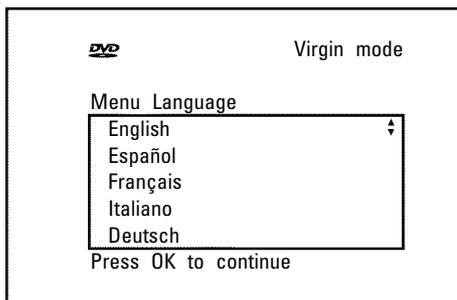
If you have connected additional devices such as a satellite receiver to the aerial cable, switch them on. The automatic channel search will recognise it and save it.

No aerial connected

Even if you only want to use the DVD recorder to play back or have only connected a satellite receiver, you must still complete the initial installation. This is necessary so that the basic settings are stored correctly. Once initial installation is complete you can use the DVD recorder as normal.



Tip



- 1 Select the desired language for the on-screen menu by pressing ▼ or ▲ .

What is an on-screen menu?

The multi-language on-screen menu takes the mystery out of using your new DVD recorder. All settings and/or functions are displayed on your TV screen in the relevant language.



- 2 Confirm with OK .
- 3 Select the desired audio language using ▼ or ▲ .

What is an audio language?

The DVD will play the sound in the language you select, provided this language is available on the disc. If it is not available on the disc the first language on the DVD will be used instead. The DVD Video Disc menu, if available, will also be displayed in the language you select.



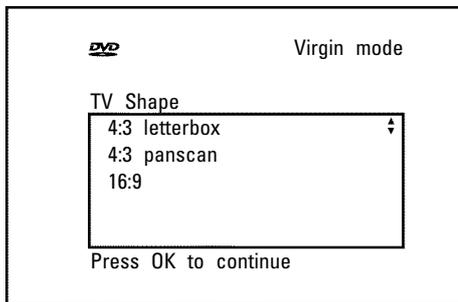
- 4 Confirm with OK .
- 5 Select the desired language for the subtitles by pressing ▼ or ▲ .

What is the subtitle language?

The subtitles will be displayed in the language you select, provided this language is available on the disc. If it is not available on the disc the first language on the DVD will be used instead.



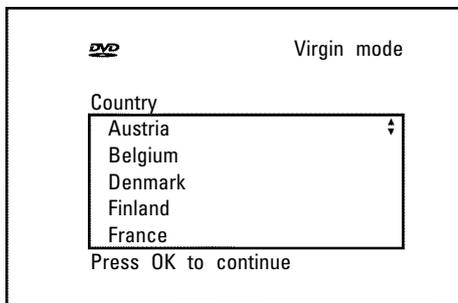
- 6 Confirm with OK .



- 7 Select the desired screen format position using ▼ or ▲ . These settings will only be used if you insert a DVD that contains this information.

Which screen formats can I select?

- '4:3 letterbox' for wide-screen (cinema format) with black borders at the top and bottom of the screen.
- '4:3 panscan' for a full-height picture with cropped edges.
- '16:9' for a wide-screen TV set (screen edge ratio 16:9)



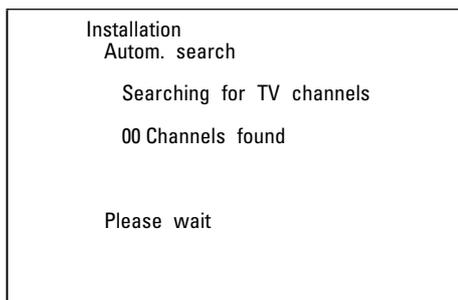
- 8 Confirm with **OK** .
- 9 Select your country with ▼ or ▲ .
If your country does not appear, select '**Other**' .

Why do I have to set the country?

To call up the specific settings for the respective country, you must first install the country.



- 10 Confirm with **OK** .
- 11 After you connect the aerial (or cable TV, satellite receiver, etc.) to the DVD recorder, press **OK** .
The automatic TV channel search starts. 'WRIT' will appear on the display.



*** The DVD recorder cannot find any TV stations**

- ✓ Select channel 1 on the TV set. Can you see the stored TV channel on the TV set?
If not, check the cable connection from the aerial (aerial socket) to the DVD recorder and to the TV set.
- ✓ Please have patience.
The DVD recorder searches the entire frequency range in order to find and store the largest possible number of TV channels. It is possible that the TV channels in your country are broadcast in a higher frequency range. As soon as this range is reached during the search, the DVD recorder will find the TV channels.
- ✓ If no aerial is connected, complete the basic settings and then, if desired, start the automatic channel search (see section 'Automatic TV channel search').



- 12 When the automatic TV channel search is complete, '**Autom. search complete**' will appear on the TV screen.
'**Time**', '**Year**', '**Month**', '**Date**' will appear on the TV screen.

```

Autom. search

Autom. search complete
00 Channels found

Time          20:01
Year          2002
Month         01
Date          01

To continue
Press OK

```

- 13 Check if the time in '**Time**' is correct.
- 14 If required, change the time with the number buttons **0..9** on your remote control.
- 15 Select the next line with **▲** or **▼** .
- 16 Check if the displayed settings for: '**Year**', '**Month**' and '**Date**' are correct.
- 17 When all information is correct, save by pressing **OK** .

The initial installation is now complete.

Satellite receiver

If you are connecting a satellite receiver, please read the section on 'Using a satellite receiver'.

Decoder

If you are connecting a decoder, you must install it as described in the next section.



Tip

*Sound may be distorted on some TV channels.

✓ If the sound is distorted on any of the stored TV channels or if there is no sound at all, the wrong TV system may have been stored for the TV channel. Read 'Manual TV channel search' for information on how to change the TV system.



Problem

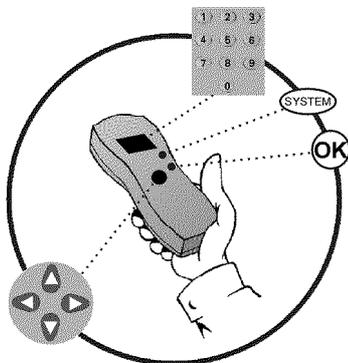
Using a satellite receiver

TV channels from a satellite receiver (connected to scart socket **EXT 2 AUX I/O**) are received on the DVD recorder on programme number '**EXT2**'

If necessary, use the **MONITOR** button to switch to the internal tuner.

Then select programme number '**EXT1**' with **0** on the remote control and programme number '**EXT2**' with **CHANNEL -** .

You should select the TV channels to be received by the satellite receiver directly on the receiver itself.



Allocating a decoder

Some TV channels send coded TV signals that can only be viewed properly with a purchased or rented decoder. You can connect such a decoder (descrambler) to your DVD recorder. The following function automatically activates the connected decoder for the TV channel you want to watch.



How do I allocate the decoder for Easy Link?

If your TV set supports 'Easy Link' the decoder must be assigned to the relevant TV channel on the TV set (see the operating instructions for your TV set). Settings cannot then be made in this menu.

- 1 Switch on the TV set. If required, select the programme number for the DVD recorder.
- 2 Switch on the DVD recorder using **STANDBY/ON**.
- 3 Use the **CHANNEL +** and **CHANNEL -** buttons on the DVD recorder or the number buttons **0..9** on the remote control to select the TV channel for which you want to use the decoder. If necessary, use the **MONITOR** button to switch to the internal tuner.
- 4 Press the **SYSTEM-MENU** button on the remote control. The menu bar will appear at the top of the screen.
- 5 Select 'T' using ◀ or ▶.
- 6 Select line '*Installation*' using ▼ or ▲ and confirm with ▶.
- 7 Select line '*Manual search*' using ▼ or ▲ and confirm with ▶.
- 8 Select line '*Decoder*' using ▼ or ▲.
- 9 Select function '*On*' with ◀ or ▶.



How can I switch the decoder off again?

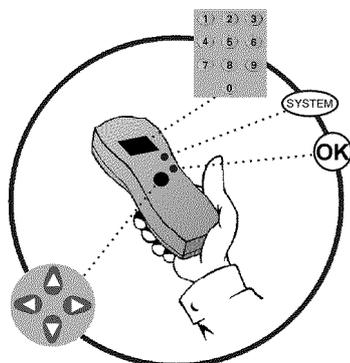
Select '*Off*' (decoder off) on the TV screen in the line '*Decoder*' using ▶.

- 10 Confirm with **OK**.
- 11 To end, press **SYSTEM-MENU**.

Installation	
Manual search	
Channel/freq.	CH
Entry/search	01
Programme number	01
TV channel name	BBC1
Decoder	Off
TV system	PAL-BG
NICAM	0n
Fine tuning	0
	To store
	Press OK



Your decoder has now been allocated to this TV channel. When this TV channel is selected, the 'DECODER' symbol will appear in the DVD recorder display.



Manual TV channel search

In some cases, not all of the available TV channels may have been found and stored during initial installation. In this case, you will need to search for and store the missing or coded TV channels manually.



Tip

Manual search with EasyLink

With 'Easy Link', the DVD recorder will automatically download the TV channels stored on the TV set. This is why some lines have no function. To store new TV channels, they must first be stored on the TV set. The information will then be transferred to the DVD recorder automatically.

- 1 Switch on the TV set. If required, select the programme number for the DVD recorder.
- 2 Switch on the DVD recorder using **STANDBY/ON**.
- 3 Press **SYSTEM-MENU** on the remote control. The menu bar appears.
- 4 Select 'T' using ◀ or ▶.
- 5 Select '*Installation*' using ▼ or ▲ and confirm with ▶.
- 6 Select '*Manual search*' using ▼ or ▲ and confirm with ▶.
- 7 In '*Channel/freq.*', select the desired display using ▶.

Installation	
Manual search	
Channel/freq.	CH
Entry/search	01
Programme number	01
TV channel name	BBC1
Decoder	Off
TV system	PAL-BG
NICAM	On
Fine tuning	0
To store Press OK	

What is hidden behind the settings?

'*Freq.*': Display/entry of frequencies
'*CH*': Display/entry of channels
'*S-CH*': Display/entry of special channels

What is a special channel?

TV signals are transmitted in certain pre-defined frequency ranges. These ranges are divided into channels. A specific frequency/channel is assigned to each TV station. Certain frequency ranges are specified as special channels (hyperband channels).



?

- 8 In '*Entry/search*', enter the frequency or channel of the TV station using the number buttons **0..9**.

*I don't know the channel for my TV station

✓ In this case, press ▶ to start the automatic search. A changing channel number/frequency number will appear on the TV screen. Continue the automatic search until you have found the TV channel you are looking for.



Problem

- 9 Using ◀ or ▶ in '**Programme number**', select the programme number you want to use for the TV channel, e.g. '01'.



Tip

How can I change the displayed symbol of a TV channel?

- 1 In '**TV channel name**', press ▶ .
- 2 Select the desired symbol position using ◀ or ▶ .
- 3 Change the symbol at the symbol position with ▼ or ▲ .
- 4 Select the next symbol position in the same way.
- 5 Keep pressing ▶ until the cursor disappears.

How can I change the TV system of the TV channel?

In '**TV system**', use ◀ or ▶ to select the TV system that produces the least distortion of picture and sound.

What is NICAM?

NICAM is a digital sound transmission system. Using NICAM, you can transmit either 1 stereo channel or 2 separate mono channels. However, if reception is poor and the sound distorted you can turn off NICAM.

In '**NICAM**', select '**Off**' using ◀ or ▶ .

How can I improve the automatic process for storing channels?

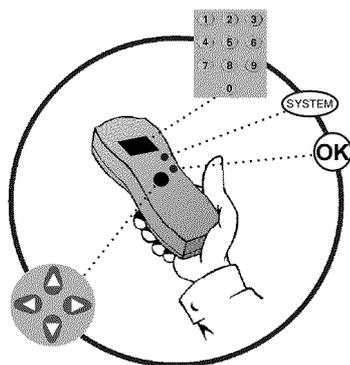
To change the automatic process for storing channels (fine tuning), select '**Fine tuning**'.

Using ◀ or ▶ you can try to fine-tune the TV channel manually.



Experts

- 10 Press **OK** to store the TV channel.
- 11 To search for other TV channels, begin again at 8 .
- 12 To end, press **SYSTEM-MENU** .



Sorting TV channels automatically (Follow TV)

When the automatic channel search function is activated, the TV channels are stored in a specific order. This may differ from the order in which the TV channels appear on your TV set.

This function changes the order of the TV channels stored in your DVD recorder to match the order on the TV set.

This only works if the DVD recorder (**EXT 1 TO TV-I/O** socket) and the TV set are connected with a scart cable.

What does EASYLINK do?

If your TV set supports 'Easylink...!', TV channels will be stored during initial installation in the same order as they appear on the TV set. To store the TV channels in a different order, you'll need to change the order on the TV set. When you start the Follow TV function the information is transferred again from the TV set.



?

- 1 Switch on the TV set. If required, select the programme number for the DVD recorder.

- 2 Switch on the DVD recorder using **STANDBY/ON**.
- 3 Press the **SYSTEM-MENU** button on the remote control. The menu bar appears.
- 4 Select '**T**' using **◀** or **▶**.
- 5 Select '**Installation**' using **▼** or **▲** and confirm with **▶**.
- 6 Select '**Follow TV**' using **▼** or **▲** and confirm with **▶**.
- 7 Confirm the message on the screen with **OK**. **TV 01** will appear in the DVD recorder display.

TV 01

- 8 Select programme number '**1**' **on the TV set**.

* **I cannot switch my TV set to programme number '1'**

✓ If you have connected additional devices to the **EXT 2 AUX I/O** socket, please disconnect these devices. Other connected devices may have switched the TV set to the programme number of the scart socket.



Problem

- 9 Confirm with **OK** on the DVD recorder remote control. '**WAIT**' will appear on the display. The DVD recorder compares the TV channels on the TV set and the DVD recorder. If the DVD recorder finds the same TV channel as on the TV set it stores it at 'P01'.

* '**NOTV**' will appear in the display. The DVD recorder is not receiving a video signal from the TV set.

✓ Check the connectors at both ends of the scart cable.
 ✓ Check your TV's operating instructions to see which scart socket is used for video signals.
 ✓ If the problem persists, you won't be able to use this feature. Please read 'Sorting and clearing TV channels manually'.



Problem

- 10 Wait until for example '**TV 02**' appears in the display.

TV 02

- 11 Select the next programme number **on the TV set**, e.g. '**2**'.

- 12 Confirm with **OK** on the DVD recorder remote control.

Deleting sorting

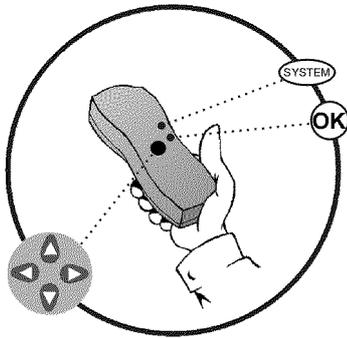
You can delete incorrect TV channel sorting by pressing **◀**.



Tip

- 13 Repeat steps **10** to **12** until you have assigned all the TV channels.

- 14 To end, press **SYSTEM-MENU**.



Automatic TV channel search

During installation, all available TV channels are searched for and stored. If the channel assignments of your cable or satellite TV provider change or if you are reinstalling the DVD recorder, e.g. after moving house, you can start this procedure again. This will replace the stored TV channels with the new ones.



What does Easy Link do?

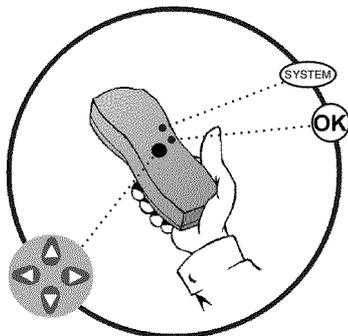
With Easylink, you can search for and store TV channels only on the TV set. These settings are accepted by the DVD recorder. Use this function to start the transfer of TV channels from the TV set.

- 1 Switch on the TV set. If required, select the programme number for the DVD recorder.
- 2 Switch on the DVD recorder using **STANDBY/ON**.
- 3 Press **SYSTEM-MENU** on the remote control. The menu bar will appear at the top of the screen.
- 4 Select 'TΔ' using ◀ or ▶.
- 5 Select line '*Installation*' using ▼ or ▲ and confirm with ▶.
- 6 Select line '*Autom. search*' using ▼ or ▲.
- 7 Press ▶.
- 8 The automatic TV channel search starts. This allows the DVD recorder to save all available TV channels. This procedure may take several minutes.
- 9 When the automatic search is completed, '*Autom. search complete*' will appear on the TV screen.
- 10 To end, press **SYSTEM-MENU**.

Installation
 Autom. search
 Searching for TV channels
 00 Channels found
 Please wait

You can read about how to search for a TV channel manually in section 'Adding and clearing TV channels manually'.

Sorting and clearing TV channels manually



After you have performed the automatic channel search you may not agree with the sequence in which the individual TV channels have been allocated to the programme positions (programme numbers). You can use this function to rearrange the TV channels already stored or to delete TV channels you don't want or those with poor reception.

The teletext clock resets automatically

If you store a TV channel which transmits TXT/PDC on programme number 'P01', the date and time will automatically be transmitted and constantly updated. As a result, the changes from summer time to winter time and back again will be made automatically.



Tip

What does Easy Link do?

With Easylink, TV channels can only be searched for and saved on the TV set. These settings are then accepted by the DVD recorder. That is why you cannot select this function manually.



?

- 1 Switch on the TV set. If required, select the programme number for the DVD recorder.
- 2 Turn on the DVD recorder. Press the **SYSTEM-MENU** button on the remote control. The menu bar will appear at the top of the screen.
- 3 Select 'T' using ◀ or ▶.
- 4 Select line '*Installation*' using ▼ or ▲ and confirm with ▶.
- 5 Select line '*Sort TV channels*' using ▼ or ▲ and confirm with ▶.
- 6 Select the TV channel that you want to delete or whose order you want to change using ▼ or ▲.
- 7 Confirm with ▶.

Installation
Sort TV channels

• P01 BBC1
P02 BBC2
P03 ITV
P04
P05
P06
...

To sort Press › To exit press SYSTEM MENU

Deleting TV channels

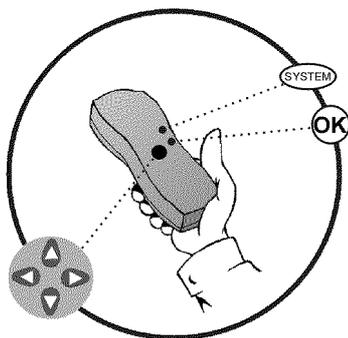
Unwanted channels or those with poor reception can be deleted using **CLEAR**. After that you can continue at step 6.



Tip

- 8 Using ▼ or ▲ , shift the TV channel to the desired position and press the ◀ button. The DVD recorder will insert the TV channel.
- 9 Repeat steps 6 to 8 until you have resorted/deleted all desired TV channels.
- 10 To save, press **OK** .
- 11 To end, press **SYSTEM-MENU** .

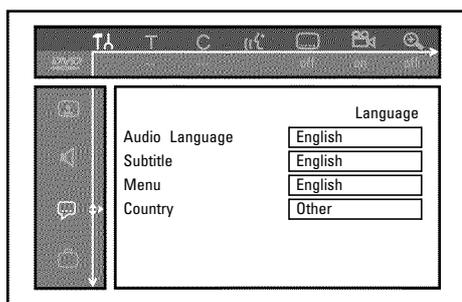
Setting the language/country



You can select the country and the subtitle language as well as the audio language for DVD playback. Please observe that with some DVDs, you can change the audio language and/or subtitle language only via the DVD disc menu.

Moreover, you can set one of the displayed languages for the on-screen menu (OSD). However, the DVD recorder display will only display English text regardless of this setting.

- 1 Switch on the TV set. If required, select the programme number for the DVD recorder.
- 2 Switch on the DVD recorder using **STANDBY/ON** .
- 3 Press **SYSTEM-MENU** on the remote control. The menu bar appears.
- 4 Select the 'T' icon using ◀ or ▶ .
- 5 Select '**Language**' using ▼ or ▲ and confirm with ▶ .
- 6 Select the appropriate line and confirm with ▶ .



Which settings can I choose?

Audio Language: Playback language (audio language)

Subtitle: Subtitle language

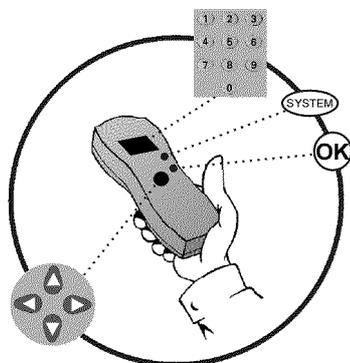
Menu: Language of the OSD menu

Country: Location (country)



Tip

- 7 Select the appropriate setting using ▼ or ▲ and confirm with **OK** .
- 8 To end, press **SYSTEM-MENU** .



Setting the time and date

If the display shows an incorrect time or '--:--', the time and date must be reset manually. If a TV channel which transmits TXT/PDC (teletext/PDC) is stored under programme number 'P01', the time and date will automatically be taken from the TXT/PDC information.

- 1 Press **SYSTEM-MENU** on the remote control. The menu bar appears.
- 2 Select the **T** icon using **◀** or **▶**.
- 3 Select '**Installation**' using **▼** or **▲** and confirm with **▶**.
- 4 Select '**Time/Date**' using **▼** or **▲** and confirm with **▶**.
- 5 Check if the time in '**Time**' is correct. If required, change the time with the number buttons **0..9** on your remote control.
- 6 Check '**Year**', '**Month**' and '**Date**' in the same way. To move between the fields, use **▼** or **▲**.
- 7 Check the displayed settings and confirm with **OK**. '**Stored**' will appear briefly on the screen.
- 8 To end, press **SYSTEM-MENU**.

Installation
Time/Date

Time	20:00
Year	2002
Month	01
Date	01

To exit press
SYSTEM MENU

You can check and change many of the features and settings on your DVD recorder using the system menu. The menu bar cannot be displayed during recording.

Icons in the menu bar

Use the **SYSTEM-MENU** button to call up and close the menu bar (main menu). You can select the appropriate feature using ◀ and ▶. You confirm a feature using ▼. This takes you to a submenu or executes the feature immediately.

Depending on the current disc, some features may not be available.



Menu bar 1

⏏	User preferences
T	Title/Track
C	Chapter/Index
🔊	Audio language
☰	Subtitle language
📷	Camera angle
🔍	Zoom



Menu bar 2

To display menu bar 2, press ▶ while menu bar 1 is displayed.

🔊	Sound
◀▶	Frame-by-frame playback
▶	Slow motion
▶▶	Fast motion
🕒	Search by time

Temporary feedback icons

Temporary feedback icons appear in the top left hand corner of the menu bar with information on the different operating modes. This information appears briefly when certain disc features are activated :

	Shuffle: Shuffle play
	Scan
	Repeat entire disc
	Repeat title
	Repeat track
	Repeat chapter
	Repeat from A to end
	Repeat from A to B
	Camera angle
	Child lock active
	Auto resume
	Action not allowed

Status box

The status box displays the current operating mode (status) of the DVD recorder and the current disc type. This display can be switched off.

Disc type icons

	DVD+RW
	DVD+R
	DVD video
	Video CD
	No disc
	Error

Operating mode icons

	Record
	Stop
	Play
	Pause play
	Record pause
	Search forwards (8x speed)
	Search backwards (8x speed)
	Slow motion

Tuner info box

This box appears in the lower left-hand corner of the screen. The aerial signal, the TV channel and name of the TV channel are shown.

	Current channel/selected input socket
	No signal TV channel is not available/additional device is not connected or is switched off
	Copy-protected signal

Timer information box

This box appears above the tuner information box. When a timer recording is set, it shows the timer icon and the start time or date of the first programme to be recorded.

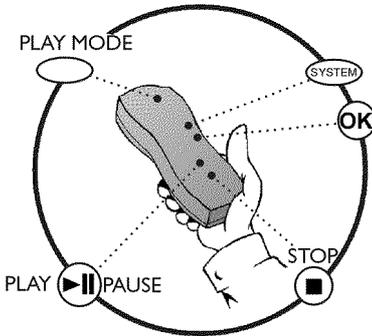
If no timer recording is scheduled, the current time is displayed.

This box disappears during playback of a disc or after a recording starts.

	Timer starts on the day shown
	OTR recording runs until the stop time displayed
	Current time No timer event programmed

5 Playback

Playback hints



This DVD recorder will play the following systems:

-) DVD video
-) (Super)Video-CD disc
-) DVD+RW disc
-) DVD+R Disc
-) DVD-RW (videomode, finalised)
-) DVD-R
-) CD-R
-) CD-RW
-) Audio CD
-) MP3-CD

You can operate the DVD recorder using the remote control or the buttons on the front of the DVD recorder.

Inserting a disc



- 1 Press the **OPEN/CLOSE** button on the front. The disc tray opens. The dialog box shows 'OPENING' and then 'TRAY OPEN'.
- 2 Insert the disc carefully into the tray, with the label uppermost and press **PLAY/PAUSE ►||** or **OPEN/CLOSE**. The dialog box shows 'CLOSING' and then 'READING'. The information on the disc is read.



How do I insert a double-sided DVD?

Double-sided discs are not printed on either side. The labelling is in the centre on each side of the disc. The labelling of the side you wish to play must be uppermost.



Opening/closing the tray using the remote control

You can open and close the disc tray using the remote control. Press and hold the **STOP ■** button on the remote control until the dialog box shows 'OPENING' or 'CLOSING'.

- 3 Playback begins automatically.



A menu may appear during playback of a DVD. In case titles and chapters are numbered, press a number button on the remote control. You can also select a menu item using ◀, ▶, ▲, ▼ and confirm with **OK**.
For further information, read chapter 'Playing a DVD video disc'.



During the playback of a DVD+RW, the index screen overview appears. Choose the title you want to play back using **▼** , **▲** , **◀◀** , **▶▶** .

Confirm with **OK** .

For further information, read chapter 'Playing a DVD+RW/+R disc'.



If the playback does not start automatically, press **PLAY/PAUSE ► II** .

For further information, read chapter 'Playing an audio CD'.



If the **■** symbol appears in the display, start playback by pressing **PLAY/PAUSE ► II** . If a menu appears on the screen, use the remote control buttons indicated on the screen to select the menu option you want (PREV= **◀◀** , NEXT= **▶▶**) or with the number buttons **0..9** .

For further information see 'Playing a (Super) Video CD'.

Playing a DVD video disc

*'PIN' will appear on the display

- ✓ The child lock was activated for the inserted disc. Read section 'Access control' and 'Authorising a disc' and in chapter 'Access control (child lock)'.

*The menu on the screen is showing an 'X'

- ✓ Some DVD discs can be manufactured so that certain steps are required before the disc can be played, or so that only limited operation is possible during playback. When an 'X' appears on the screen the selected feature is not possible.

*The screen is showing regional code information

- ✓ Since DVD films are not normally released in all parts of the world at the same time, all DVD players have a specific regional code. Discs can be given a regional code. If the regional codes differ between the player and the disc, playback is not possible.
- ✓ The regional code is shown on the label on the back of the machine.
- ✓ The regional code does not apply to recordable DVD discs.

*The screen is prompting me to choose an option from the menu.

- ✓ Select the option you want using **▲** , **▼** , **◀** , **▶** or the number keys **0..9** .

In some cases you need to confirm with **OK** .

You can also access the menu using **DISC-MENU** on the remote control.



Problem

How can I access hidden information?

- 1 Press the **DISC-MENU** button on the remote control. A menu will appear on the screen. For some feature films this may appear after an introductory sequence.
- 2 Select the option you want using **▲** , **▼** , **◀** , **▶** or the number keys **0..9** .
Confirm with **OK** .



Tip



- ❶ If playback does not start automatically, press **PLAY/PAUSE ► II** .
The display shows:
title, chapter, time elapsed.
- ❷ To stop the disc, press **STOP ■** on the remote control or **■STOP** on the DVD recorder.
- ❸ To eject the disc, press **OPEN/CLOSE** on the front of the DVD recorder.

Playing a DVD+RW/+R disc



- ❶ If the disc is write-protected or a finalised DVD+R disc, playback starts automatically.
- ❷ If playback does not start automatically, select the title you want to watch from the Index Picture Screen using **▼** or **▲** .
You can also use the **◀◀** or **▶▶** buttons on the front of the set.
- ❸ Press **PLAY/PAUSE ► II** .
The display shows:
title number, recording quality.



✗ I see the message 'EMPTY DISC' in the display

✓ There are no recordings on this disc.

Problem

- ❹ To stop the disc, press **STOP ■** on the remote control or **■STOP** on the DVD recorder.
- ❺ To eject the disc, press **OPEN/CLOSE** on the front of the DVD recorder.



What should I note when playing back different recording types (qualities)?

The correct recording quality '**HQ(HQ)**, **SP(SP)**, **SP+(SP+)**, **LP(LP)**, **EP(EP)**, **EP+(EP+)**' will automatically be selected during playback.

For more information, please read section 'Selecting the recording type (Quality)' in chapter 'Manual recording'.

?

Playing an audio CD

You can use your DVD recorder to play audio CDs

- 1 Insert an audio CD. Playback starts automatically.

Audio CD display

If the TV is on, the audio CD screen appears automatically

During play, the current track number and its elapsed playing time will show on the TV screen and on the recorder display.



Tip

- 2 Stop playback using **STOP ■**. The number of tracks and the total time are displayed.

Playing an MP3 CD

MP3 (MPEG1 Audio Layer-3) files are highly compressed music files. Using this technology the data volume can be compressed by a factor of 10. This means it is possible to record 10 hours of music in CD quality on a single CD-ROM.

When creating MP3 CDs please note the following:

Supported file system: ISO9660, Joliet

Supported formats: *.mp3

File names: maximum 64 ASCII characters (Joliet)

Maximum of 99 albums, 999 tracks

Supported sampling frequencies: 44.1kHz, 48kHz. Files with less than 44.1kHz will be skipped.

Supported bit rate: 32, 64, 96, 128, 192, 256 (kbps)

ID3 Tag: Version 1, 1.1. If the version is higher, the directory name is used for the album and the filename for the track.

Important notes for playback:

In agreement with SDMI the digital audio output will not work during MP3 playback.

Only the first session of a multi-session CD will play back.

- 1 Insert an MP3 CD. Playback starts automatically.

MP3 CD display

If the TV is on, the MP3 CD screen appears automatically

During playback, the current track number and its elapsed playing time will show on the TV screen and on the recorder display.

During interrupted playback (**STOP ■**), the current track number will show on the TV screen and on the recorder display.

If available in the so-called ID tag, more information will be displayed on: album, track, and artist.



Tip

- 2 Stop playback using **STOP ■**. The number of albums will be shown in the display.

Additional playback features

Select the previous or next title with **◀◀** or **▶▶** .

You can also use **T/C** to select titles and albums.

- ① Press **T/C** and then select symbol 'T' for album or 'C' for title with **▶** or **◀** .
- ② Select the number of the album/title with **▼** , **▲** or with the number buttons **0..9** on the remote control.

You can also use repeat functions (Button **PLAY MODE**).



Tip

Playing a (Super) Video CD

(Super) Video CDs may be equipped with PBC (Play Back Control). This means that special playback functions (menus) can be directly selected. The Video CD must be PBC-compatible (see CD packaging).

'PBC' is turned on by default.

- ① Insert a (Super) Video CD and press **PLAY/PAUSE ▶ II** .
If the **■** symbol appears in the display, start playback by pressing **PLAY/PAUSE ▶ II** .
- ② If a menu appears on the screen, use the remote control buttons indicated on the screen to select the menu option you want (PREV=**◀◀** , NEXT=**▶▶**) or with the number buttons **0..9** .
If the PBC menu contains a title list, the desired title can be chosen directly.
- ③ The **RETURN** button will take you back to the previous menu.
- ④ Stop playback using **STOP ■** .

Changing to another title/chapter

If there is more than one title or chapter on the disc, follow the instructions to change to another title or chapter. If there are several chapters within the title, these will be shown. It is possible to select these titles using the menu bar.

- 1 During playback use the **▶▶|** button to move to the next title/chapter. Pressing **◀◀** takes you to the start of the current title or chapter. Pressing **◀◀** twice takes you to the start of the previous title or chapter.

Using T/C (title/chapter)

- 1 Press **T/C** (title/chapter) and select the appropriate title using **▲** or **▼**.
Ensure that the 'T'(Title) icon is selected in the menu bar.
- 2 Using **T/C** you can select chapters within the title. Press **T/C** and select the 'C' (Chapter) icon using **▶**.
Select the appropriate chapter using **▲** or **▼**.



Tip

Searching a disc

You can search the disc for a recording at 4x or 32x playback speed. Additional playback speeds are available via menu bar (**▶▶▶**).

- 1 During playback, press and hold **◀◀** (reverse) or **▶▶|** (forwards) to switch to the search feature. You can switch between the playback speeds using **◀◀ / ▶▶|**.
- 2 To continue playback press **PLAY/PAUSE ▶||** twice at your chosen location.

*No sound

- ✓ The sound is switched off in search mode. This is not a fault in your machine.



Problem

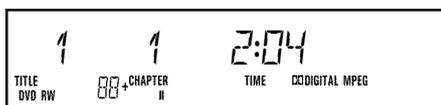
Search function via menu bar

- 1 During playback press **SYSTEM-MENU** on the remote control. The menu bar will appear at the top of the screen.
- 2 Select the **▶▶|** icon using **▶** or **◀** and confirm with **▼**.
- 3 Using **◀** or **▶** you can now select different speeds forwards or backwards.
- 4 If necessary hide the menu bar using **SYSTEM-MENU**.
- 5 To continue playback, press **PLAY/PAUSE ▶||**.



Tip

Still picture



- 1 During playback, press **PLAY/PAUSE ►II** to stop the disc and display a still picture.

Frame-by-frame playback via menu bar

- 1 During the still picture press **SYSTEM-MENU** on the remote control. The menu bar will appear at the top of the screen.
- 2 Select the '◀▶' icon using ► or ◀ and confirm with ▼ button.
- 3 Using ◀ or ▶ you can now scroll back or forwards one frame at a time.
- 4 If necessary hide the menu bar using **SYSTEM-MENU**.
- 5 To continue playback, press **PLAY/PAUSE ►II**.



Tip

Slow motion

- 1 During playback, press **PLAY/PAUSE ►II** on the remote control. Then hold down ◀◀ or ▶▶ to switch to slow motion.
- 2 You can choose between the various speeds using ◀◀ or ▶▶.

Slow motion over the menu bar

- 1 During playback, press **PLAY/PAUSE ►II** on the remote control and then press **SYSTEM-MENU**. The menu bar will appear at the top of the screen.
- 2 Select the '▶' symbol using ► or ◀ and confirm with ▼.
- 3 Using ◀ or ▶ you can now select various slow motion speeds backwards or forwards.
- 4 If necessary hide the menu bar using **SYSTEM-MENU**.



Tip

- 3 To continue playback, press **PLAY/PAUSE ►II** twice.

Search by time

Using this feature you can select where playback should start (select elapsed time).

- 1 During playback press **SYSTEM-MENU** on the remote control. The menu bar will appear at the top of the screen.
- 2 Select the '🕒' symbol using ► or ◀ and confirm with ▼. Playback is stopped and a box appears on the screen showing the elapsed time.
- 3 Enter the start time with the digit keys **0..9** from where playback should start.

- 4 Confirm with **OK**.



× **The time entered will flash**

✓ The selected title is shorter than the time entered. Enter a new time or end the function using **SYSTEM-MENU**.

Problem

- 5 Playback starts before the time entered.

Repeat/Shuffle play

You can mark entire sections or the whole disc for endless playback. Depending on the type of disc (DVD video, DVD+RW, video CD) you can select a chapter, title or the entire disc.

- 1 Select the desired chapter, title or the entire disc and start playback.
- 2 During playback, press **PLAY MODE**. By pressing **PLAY MODE** again you can choose from the following options:
 -) 'chapter': repeat chapter – DVD only
 -) 'title': repeat title/track
 -) 'repeat': repeat entire disc (Video CD, Audio CD only)
 -) 'shuffle': Shuffle play
 -) display disappears: no repeat
- 3 To switch off the repeat, press **STOP ■**. You can also press **PLAY MODE** repeatedly until the icons disappear.

Repeat sequence (A-B)

You can repeat a certain sequence within a title/chapter. You have to mark the start and end of the desired sequence.

- 1 During playback press at the start of the sequence **PLAY/PAUSE ► II**. You see a still picture.
- 2 Press **PLAY MODE** until the 'A' icon appears on the screen. This marks the start point. Press **PLAY/PAUSE ► II** to start playback.
- 3 At the desired end point, press **OK**. 'A-B' appears on the TV screen. The disc will only play between the selected points.
- 4 To switch off the repeat, press **STOP ■**. You can also press **PLAY MODE** repeatedly until the icons disappear.

Scan feature

This feature plays back the first 10 seconds of each chapter (DVD) or track (CD).

- ① During playback, press **PLAY MODE** . Select '' using **PLAY MODE** .
- ② After 10 seconds the DVD recorder switches to the next chapter/index. To start playback at the corresponding chapter/index, press **STOP** ■ and then **PLAY/PAUSE** ►|| .

Zoom feature

The Zoom feature allows you to enlarge the video image and pan through the enlarged image.

- ① During playback, press **PLAY/PAUSE** ►|| . The DVD recorder switches to 'PAUSE'. You will see a still picture.
- ② Press **SYSTEM-MENU** and select the '' icon using ► .
- ③ Select the required zoom factor using ▼ or ▲ .
- ④ When '*press OK to pan*' appears on the screen, the zoom process is complete.
- ⑤ Press **OK** . Using ▲ , ▼ , ► , ◀ select the part of the image you wish to view.
- ⑥ Confirm with **OK** .
- ⑦ To stop the feature, press **PLAY/PAUSE** ►|| and then **SYSTEM-MENU** .

Camera angle

If a DVD video contains sequences recorded from different camera angles you can change the camera angle for playback.

- ① During playback, press **PLAY/PAUSE** ►|| . You will see a still picture.
- ② Press **SYSTEM-MENU** and select the '' icon using ► .

* The '' icon is not visible

✓ The selected scene was not recorded from different camera angles. That is why you cannot select this feature. For more information please read the 'cover text' on your DVD video disc.



Problem

- 3 Select the required camera angle using ▼ or ▲ . You can also enter the number directly using the number buttons 0..9 .
- 4 After a short delay, playback changes to the new camera angle. The  icon remains displayed until multiple angles are no longer available.

Changing the audio language

Pre-recorded DVD videos often come with multiple audio languages. Playback uses the language you selected during initial installation. You can change the audio language of the current disc at any time.

You can change the audio language either using the menu of the inserted disc (**DISC-MENU** button) or the menu bar (**SYSTEM-MENU** button). The audio languages for DVD playback in the two menus may be different.

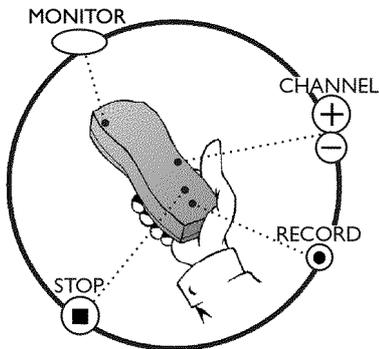
- 1 During playback press **SYSTEM-MENU** and select the  icon using ► .
- 2 Select the required audio language using ▼ or ▲ . You can also enter the number directly using the number buttons 0..9 .
- 3 Play continues in the new audio language.

Subtitles

Pre-recorded DVD videos often come with subtitles in several languages. Playback uses the language you selected during initial installation. You can change the subtitle language of the current disc at any time.

You can change the subtitle language either using the menu of the inserted disc (**DISC-MENU** button) or the menu bar (**SYSTEM-MENU** button). The subtitle languages in the menus may differ.

- 1 During playback press **SYSTEM-MENU** and select the  icon using ► .
- 2 Select the required subtitle language using ▼ or ▲ . You can also enter the number directly using the number buttons 0..9 . You can switch off subtitles again with 0 or by pressing *off* .
- 3 Playback continues in the new subtitle language.



General information

Which discs can I use for recording?

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

DVD+RW

This disc can be written to and then the contents deleted.

DVD+R

This type of disc can only be recorded once.

If you want to play this DVD in a DVD player it must be finalized using the '**Finalise disc**' function. It is not possible to make further recordings using this disc.

If this disc is to be played in a DVD recorder it must not be finalised. Recordings can be added and deleted. The disc space (playback time) from the deleted recording cannot be recovered for further recordings



Use the 'Manual recording' feature to spontaneously start recording (e.g. to record a TV show already in progress).

In the 'Index Picture screen' select the title to be overwritten or '**Empty title**' using ▼ and ▲.

If you want to record between existing recordings, check the length of the old recording and the length of the new recording. If the new recording is too long, the following recording (title/chapter) will be overwritten.

Insert new recordings at the end of all existing recordings (Safe Record)

To add a new recording at the end of the last recording on the disc, hold down the **REC/OTR** ● button until the message '**SAFE REC**' appears on the display.

For DVD+R discs each new recording is always added at the end of all previous recordings as existing recordings cannot be overwritten.



Tip

If you want to start and stop a recording manually, read '**Recording without automatic switch-off**'.

If you want to start a recording manually but stop it automatically, read '**Recording with automatic switch-off**'. (e.g. not to record to the end of the disc)

Read '**Automatic recording from a satellite receiver**', if you want a recording to be controlled automatically by a satellite receiver.

Read '**Direct record**' if you want to record a programme currently being shown.

Recording without automatic switch-off

- 1 Switch on the TV set. If required, select the programme number for the DVD recorder.
- 2 Insert a disc to be used for the recording. The system and content of the disc will be checked. 'READING' will appear on the display.

× Index display

✓ A DVD+RW disc was inserted that already contains recordings. Use ▲ and ▼ to select a location where the recording should be started.

× 'EMPTY DISC' appears in the display

✓ The inserted DVD disc is empty.

× A dialog box appears asking if the contents should be erased or the disc should be ejected

✓ The inserted disc is a DVD+RW disc whose contents are not compatible with DVD Video (e.g. a data disc). This disc cannot be used for recordings until the entire disc is erased using the **REC/OTR** ● button.

× 'Too many titles' appears on the screen when a recording is attempted

✓ A disc can only contain a max. of 48 titles (including the empty titles). Erase the titles or change the disc.



Problem

- 3 If necessary, switch to the internal tuner on the DVD recorder using the **MONITOR** button on the remote control.
- 4 Select the programme number (station name) you wish to record using **CHANNEL +** or **CHANNEL -**. The following will appear on the display:



Station name

If a TV station transmits a station name it will be shown in the display.

Programme number of the external inputs:

'EXT 1' Scart socket at the back **EXT 1 TO TV-I/O**

'EXT 2' Scart socket at the back **EXT 2 AUX I/O**

'ERM 1' SVHS-/Audio front sockets **S-VIDEO / left AUDIO right**

'ERM 1' Video/audio front sockets **A/V VIDEO / left AUDIO right**

Switching between sockets **S-VIDEO** and **VIDEO** is done automatically. In case both sockets are used, the signal received at socket **S-VIDEO** is treated with priority.

'ERM 2' Digital Video (i Link) front socket **DV**



Tip



- 5 To start recording, press **REC/OTR** ● on the remote control or **RECORD** on the DVD recorder. If you want to start the recording at the end of the existing recordings, hold down the **REC/OTR** ● button until the message 'SAFE REC' appears on the display.

For DVD+R discs each new recording is always added at the end of all previous recordings as existing recordings cannot be overwritten. On the display will appear e.g.:

Inserting chapter markers

During recording it is possible to mark scenes that you want to see or hide later.

During recording press **EDIT** at the relevant location. The screen displays '**Inserting marker**'. The 'CHAPTER' number is increased by one in the display box.

For more information on titles and chapters please see the section 'Changing to another title/chapter' in the chapter 'Playback'.



Tip

- 6 You can stop recording by pressing **STOP** ■ on the remote control or **STOP** on the recorder. **MENU UPDT** will appear on the display. The DVD player is preparing the list of contents. Wait until this message disappears from the display, then the recording is completed.

* The display will read ***DISC ERR***

✓ The recording could not be completed correctly because of a disc error. Check and, if necessary, clean the inserted disc.



Problem

Making recordings on DVD+R discs compatible

If you want to play back the recording on a DVD player, you need to finalise the disc in the DVD recorder. You can prepare your DVD for use in a DVD player using the '**Finalising**' feature. See the section 'Finalising DVD+R discs' in chapter 'Managing the disc contents'.



Tip

Interrupt recording (Pause)

- 1 During recording press **PLAY/PAUSE ► II** , for example to avoid recording the commercials.
- 2 To continue recording, press **REC/OTR ●** .



End recording

To end the recording, press the **STOP ■** button. Wait until 'MENU UPDT' disappears from the display.

Tip

Recording with automatic switch-off (OTR-One Touch Recording)

- 1 Insert a disc.
- 2 Use **CHANNEL +** or **CHANNEL -** to select the programme number (channel name) you want to record.
- 3 Press **REC/OTR ●** on the remote control.
- 4 Each time you press **REC/OTR ●** you will add 30 minutes to the recording time.



How can I cancel the recording time I have just set?

To cancel the entry, press the **CLEAR** button while the recording time is displayed.

?

Protecting the disc against accidental recording

To prevent an important recording from being accidentally erased, you can protect the entire disc. You can only protect the disc as a whole. It is not possible to protect an individual recording.



What happens with DVD+R discs?

As long as these discs are not finalised, they can be protected against accidental erasure in the same way as DVD+RW discs.

- 1 Insert the disc you wish to protect.
- 2 Press **DISC-MENU** . The Index Picture Screen appears.
- 3 While the Index Picture Screen is displayed, press the **STOP** ■ button on the remote control. The first title is marked.
- 4 Press ▲ . This takes you to the disc info screen.
- 5 Press the ► button.
Select '**Protection**'.
Confirm with ► .
- 6 Select '**Protected**' using ▼ and confirm with **OK** .
- 7 Quit using ◀ and then **DISC-MENU** .

The entire disc is now protected. If you try to record onto this disc the message '**DISC LOCK**' will appear in the display and '**Disc locked**' on the screen.

Lining up recordings within a title (assemble cut)

You can add further recordings to a title already contained on a DVD+RW disc. This recording will be added to the title as a so-called 'chapter'. Existing information will be overwritten from this location onward. Depending on the length of the recording, this will also overwrite titles that follow the current title. The recording mode (quality) is automatically transferred from the current title.

To play back this recording, press **SYSTEM-MENU** and select 'C' (chapter) using **▶** . You can also use **T/C** .

For more information, read section 'Changing to a different title/chapter' in chapter 'Playback'.



What happens with DVD+R discs?

New recordings on 'DVD+R' discs can only be added after existing recordings. It is not possible to overwrite existing recordings on 'DVD+R' discs.

- 1 Find the title in the Index Picture Screen where you want to insert the new recording.
- 2 Look at the last minute of the old recording (playback)
- 3 Press **PLAY/PAUSE ▶ II** on the remote control at the position where the new recording is to go. 'II' will appear on the display.
- 4 To monitor the recording you can switch to the internal tuner using **MONITOR** .
- 5 Now start recording as usual by pressing **REC/OTR ●** on the remote control.
The new recording will be inserted.
- 6 Stop recording with **STOP ■** .

Selecting the recording mode (quality)

By selecting a recording mode, you define the picture quality of recordings and the maximum recording time for a disc.

You can check the quality by switching to a recording mode and then watch the picture via the built-in tuner (**MONITOR** button).

For playback, the correct picture quality will automatically be selected.

- 1 Switch on the TV set. If required, select the programme number for the DVD recorder.
- 2 On the front of the DVD recorder select the recording quality using **REC MODE** .
You can also use the button **REC. MODE** on the remote control.

Which recording types can I choose?

'**HQ/HQ**': **HighQuality** offers the best picture quality and a recording time of 60 minutes.

'**SP/SP**': **StandardPlay** (pre-recorded DVD quality) offers excellent picture quality with a recording time of 120 minutes.

'**SP+/SP+**': **StandardPlay** (better than S-VHS quality) offers excellent picture quality with a recording time of 150 minutes.

'**LP/LP**': **LongPlay** (S-VHS quality). Recording time 180 minutes.

'**EP/EP**': **ExtendedPlay** (better than VHS quality). Recording time 240 minutes.

'**EP+/EP+**': **ExtendedPlay** (VHS picture quality). Recording time 360 minutes.

Can I select the recording type via a menu as well?

- 1 Press the **SYSTEM-MENU** button.
- 2 Select '**T**' symbol with ◀ or ▶ .
- 3 Select '**Record settings**' using ◀ or ▶ and confirm with ▶ .
- 4 In the line '**Record mode**' select the recording type with ▼ or ▲ .
- 5 Confirm using **OK** and **SYSTEM-MENU** .
- 6 If you have selected the recording type '**LP/LP**', '**EP/EP**' or '**EP+/EP+**', you can select the settings '**Stndrd**' (Standard) or '**Sport**' (fast movements) in the '**Filter mode**' line.



Tip

Automatic recording from a satellite receiver (Sat Recording)

You can use this feature if you own a satellite receiver that can control other devices via a scart cable and a programming feature (Timer). For more information, please see the operating instructions for the satellite receiver.

- 1 Switch on the TV set. If required, select the programme number for the DVD recorder.
- 2 Press **SYSTEM-MENU** on the remote control. The menu bar appears.
- 3 Select 'T' using ◀ or ▶ .
- 4 Select line '**Record settings**' using ▼ or ▲ and confirm with ▶ .
- 5 Select '**Sat record**' using ▼ or ▲ .
- 6 Select '**EXT2**' with ◀ or ▶ .



Switching off 'Sat Recording'

To switch off the feature, select '**Off**' using ▶ or ◀ .

Tip

- 7 Confirm with **OK** .
- 8 Use a scart cable to connect the scart socket **EXT 2 AUX I/O** on the DVD recorder to the corresponding scart socket on the satellite receiver.
- 9 Quit using **SYSTEM-MENU** .
- 10 Insert a disc that you want to use for recording.
- 11 Programme the satellite receiver with the required information (programme number of the TV channel, start time, end time). If necessary, please see the operating instructions for your satellite receiver.
- 12 Switch off the DVD recorder with **STANDBY** ⏻ . '⏻' appears in the display to show the activated feature.

The DVD recorder is now ready to record. The beginning and end of the recording is controlled via the scart socket **EXT 2 AUX I/O** .

'Direct Record'

Can I instantly record the TV channel I want, even though the DVD recorder is switched off? No problem. If recording is started manually, the DVD recorder, when it is **switched off**, is set to the current TV channel on the TV set using the scart cable.

You will find more information on how to switch 'Direct record' on or off in the next section 'Direct Record'.



How does Direct Record work?

The DVD recorder uses the scart cable to compare the TV channel selected on the TV set with its stored TV channels. If the same TV channel is found, the DVD recorder switches to the corresponding programme number and starts recording.

During this search please do not change the TV channel on the TV. This may affect the tuning of the DVD recorder.

- 1 On the TV set, select the programme number you want make the recording from.
- 2 Press **REC/OTR** ● with the DVD recorder **switched off**.

× 'WRIT' will appear on the display.

✓ The DVD recorder is comparing its stored TV channels with those on the TV set. Please do not change the TV channel on the TV set while 'WRIT' is displayed.

× 'NOTV' appears in the display

✓ This TV channel could not be found in the DVD recorder's memory. Check that all the TV channels stored on the TV set are available on the DVD recorder. If necessary, store any missing channels. Please read paragraph 'Manual TV channel search' in the chapter 'Installing your DVD Recorder'.

- ✓ Check the connectors at both ends of the scart cable.
- ✓ Check your TV's operating instructions to see which scart socket is used for video signals.
- ✓ If the problem persists, you won't be able to use this feature.

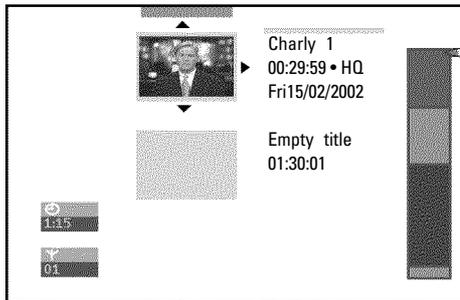


Problem

- 3 Stop recording with **STOP** ■ .

Switching 'Direct Record' on or off

- ① Switch on the TV set. If required, select the programme number for the DVD recorder.
- ② Press **SYSTEM-MENU** on the remote control. The menu bar appears.
- ③ Select 'T' using ◀ or ▶ .
- ④ Select '*Record settings*' using ▼ or ▲ and confirm with ▶ .
- ⑤ Select '*Direct Record*' using ▼ or ▲ .
- ⑥ Select '*On*' (Direct Record on) or '*Off*' (Direct Record off) using ◀ or ▶ .
- ⑦ Confirm with **OK** .
- ⑧ Quit using **SYSTEM-MENU** .
- ⑨ Switch off with **STANDBY** ⏻ .



General Information

When a recording is made to disc, the following additional information is also stored at the beginning of the recording:

-) Name of the recording
If the TV station does not transmit a name, only the channel number and time will be stored as the name
-) Length of the recording
-) Record type (Quality)
-) Date of the recording
-) Index picture of the recording

A marker will be set every 5-6 minutes if the '**Auto chapters**' function is activated in the '**Record settings**' menu. This marker is known as a 'chapter'. These markers can be changed when the recording has finished.



Can markers be set on a DVD+R disc?

Markers can be set on these discs if they have not been finalised.

?

It is also possible to add 'chapters' later. This means that scenes you do not want to see during playback, such as commercials, can be hidden or skipped. During playback you can watch your recording as a continuous sequence without the hidden chapters.

Read section '**Disc settings**', to change general settings of the disc.

Read '**Editing recording titles (name)**' to find out how to change a name.

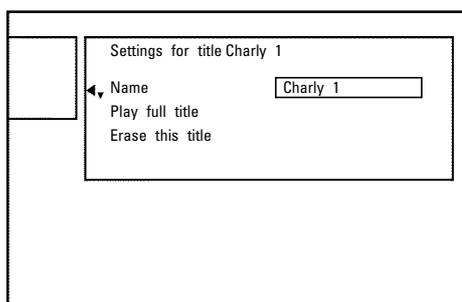
Read '**Playing back titles**' to find out how to play back the entire recording including the hidden chapters

Read '**Erasing a recording/title**' to find how to erase titles and the accompanying recording.

Read '**Favourite scene selection**' to find out how to split the title into chapters and how to manage the chapters.

Editing recording titles (name)

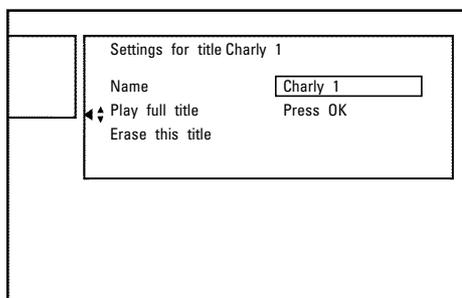
Some TV stations transmit the title (name) of a programme. In this case, the name will be included automatically (e.g. 'ROCKY'). Otherwise, the channel number and time of the recording are stored as the name. The name of the recording can only be changed after the recording has been completed.



- 1 Press the **STOP** ■ button or during playback press **DISC-MENU** .
- 2 Using ▲ or ▼ select the title whose name you want to edit and confirm with ► . The menu for editing names appears.
- 3 Select '**Name**' using ▲ or ▼ and confirm with ► .
- 4 Using ► or ◀ select the position where the letter/number/icon is to be changed/re-entered.
- 5 Change the icon using ▲ or ▼ . You can switch between upper and lowercase using **SELECT** . You can delete the character using **CLEAR** .
- 6 Repeat 4 and 5 until you have made the changes you want.
- 7 Save the new name with **OK** . '**Storing name**' appears on the TV screen for confirmation.
- 8 To end, press ◀ .

Playing back titles

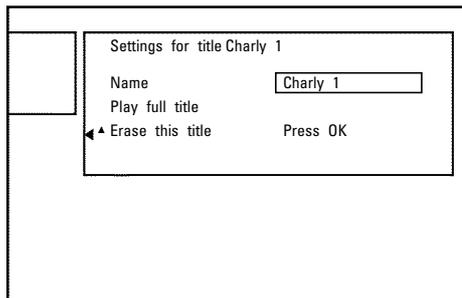
If you have hidden certain chapters of a title, with this setting you can view the entire title including the hidden chapters. Proceed as follows:



- 1 Press the **STOP** ■ button or during playback press **DISC-MENU** .
- 2 Using ▲ or ▼ select the title that you want to play back and confirm with ► . The menu for editing titles appears.
- 3 Select '**Play full title**' using ▲ or ▼ and confirm with **OK** .
- 4 Playback begins automatically. The full title - including the hidden chapters - is played back.

Erasing a recording/title

You can erase individual recordings from a disc. Follow the instructions below:



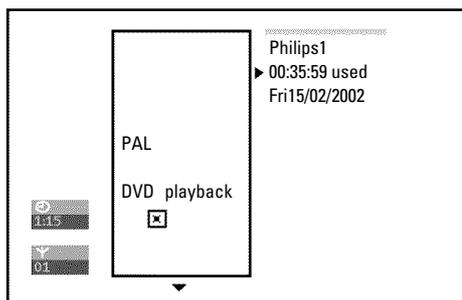
- 1 Press the **STOP** ■ button or during playback press **DISC-MENU**.
- 2 Using ▲ or ▼ select the title to be erased and confirm with ►. The menu for editing titles appears.
- 3 Using ▲ or ▼ select '**Erase this title**' and confirm with **OK**. The screen will show '**This will completely erase this title**'. '**Press OK to confirm**'.
- 4 If you want to erase the title press **OK**. To end, press ◀.
- 5 The screen will show '**Erasing title**'.
- 6 '**Empty title**' will now appear in this position in the Index Picture Screen. A new recording can now be made at this position. If the deleted title was very short (shorter than 1 minute) no '**Empty title**' will be displayed.

Can titles be deleted from a DVD+R disc?

Titles on DVD+R discs are only marked as deleted. '**Deleted title**' will appear in the display instead of '**Empty title**'. During playback the 'deleted' title is skipped. The space used for this title cannot be used again as the title has not been physically deleted. Once the disc has been finalised no further changes can be made.



Disc settings



This screen appears **before** the first title and contains general information about the current disc.

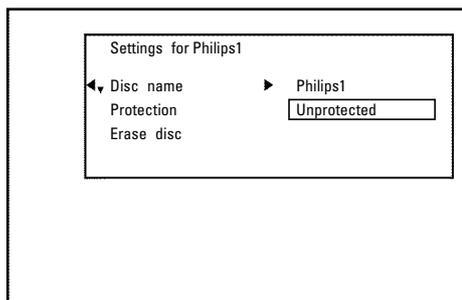
You can:

-) change the name of the disc
-) activate or deactivate write protection on the disc
-) Finish editing (make edits DVD compatible)
-) Finalising DVD+Rs
-) Erasing DVD+RWs

Follow the instructions to get to this screen:

- 1 Press the **STOP** ■ button or during playback press **DISC-MENU**.
- 2 Select the first title using ▲ or press **STOP** ■.
- 3 Press the ▲ button. The Disc Info screen will appear.

Changing the disc name



- 1 In the Disc Info screen press **▶** . The '**Settings for**' menu appears on the TV screen.
- 2 Select '**Disc name**' using **▲** or **▼** and confirm with **▶** .
- 3 Using **▶** or **◀** select the position where the letter/number/icon is to be changed/re-entered.
- 4 Change the icon using **▲** or **▼** . You can switch between upper and lowercase using **SELECT** . You can delete the character using **CLEAR** .
- 5 Repeat **3** and **4** until you have made the changes you want.
- 6 Save the new title with **OK** . '**Storing name**' appears on the TV screen for confirmation.
- 7 To end, press **◀** .

Finalising a disc

Even if one or more titles have been edited, a DVD player may still show the original title. You can prepare your disc so that a DVD player will be able to read the edited title.

- 1 In the Disc Info screen press **▶** . The '**Settings for**' menu will appear on the screen.
- 2 Select '**Make edits compatible**' using **▲** or **▼** and confirm with **OK** .

* '**Make edits compatible**' does not appear

✓ Your disc is already compatible. No conversion is necessary.
To end, press **SYSTEM-MENU** .



Problem

- 3 The screen displays '**This will take...**' to show how long the process will last.
- 4 To confirm press **OK** . The screen will show '**Working...**'. A bar will move from left to right indicating the progress of the conversion.

Finalising DVD+R discs

This feature is required to play back a DVD+R disc in a DVD player. Once the disc has been finalised no further recordings or changes can be made.

- 1 In the Disc Info screen press **▶** . The '**Settings for**' menu appears on the TV screen.
- 2 Select '**Finalise disc**' using **▲** or **▼** . and confirm with **OK** .

*'Finalise disc' does not appear

✓ Either there is no DVD+R disc inserted or the disc is already finalised.
To end, press **SYSTEM-MENU** .

*'Settings for' does not appear

✓ If the disc has been recorded on another DVD recorder, the menu may not appear. In this case, use the '**Finalise disc**' feature in the '**T1**' menu, under '**Features**'.

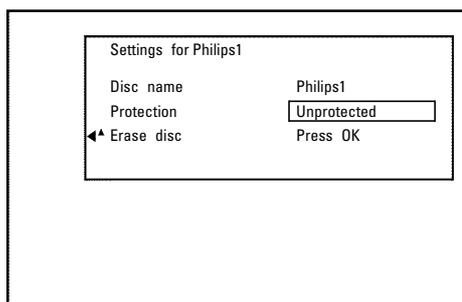


Problem

- 3 The screen displays '**This will take**' to show how long the process will last.
- 4 To confirm press **OK** . '**Working**' appears on the TV screen. A bar will move from left to right indicating progress.

Erasing DVD+RW disks

- 1 In the Disc Info screen press **▶** . The '**Settings for**' menu will appear on the screen.
- 2 Select '**Erase disc**' using the menu buttons **▲** or **▼** . Confirm with the menu button **OK** . The screen will show '**This will erase all titles Press OK to confirm**'.
- 3 If you want to erase all titles press **OK** . Otherwise press **◀** to end.
- 4 The screen will show '**Erasing disc**'.
- 5 Once the disc has been successfully erased the Index Picture Screen will show the empty area of the disc.



Favourite Scene Selection

In this menu, you can adjust a title to your personal preferences. You can insert/delete chapter markers, hide chapters, select a new index screen, or split the title. Display this menu during playback using **EDIT** on the remote control.

Inserting chapter markers

During playback you can set and erase chapter markers within a title. The maximum number of chapters per disc is 124 and 99 per title. If one of these numbers are reached, the following message appears: **'Too many chapters'**. Some markers must be erased before new markers can be added.

- 1 During playback press **EDIT** on the remote control at the appropriate position. The **'Favorite Scene Selection'** menu will appear on the screen.

- 2 Confirm **'Insert marker'** using **OK**. The screen displays **'Inserting marker'**.

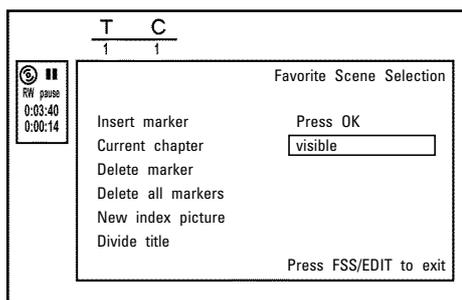


Tip

'X' will appear on the screen:

This DVD is write-protected or the disc is a finalised DVD-R. Subsequent changes cannot be made.

- 3 To stop the feature, press **EDIT**.



Hiding chapters

By default all chapters are visible. Chapters (such as commercials) can be hidden during playback or made visible again. In editing mode, hidden chapters are shown greyed out.

- 1 During playback of the appropriate chapter press **EDIT** on the remote control. The **'Favorite Scene Selection'** menu will appear on the screen.

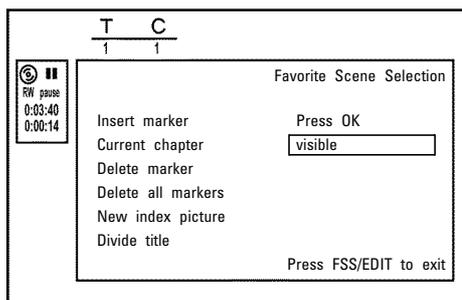


Tip

How do I select other chapters?

- 1 Press **'T/C'** on the remote control. The title and chapters are shown at the top of the screen.
- 2 Using **▶** or **◀** select Title(T) or Chapter (C).
- 3 Using **▲** or **▼** select the title or chapter you wish to edit.

- 2 Select **'Current chapter'** using **▼**.



- ③ Using ► select **'hidden'**. The picture is shown darker.



Tip

Switching quickly

You can switch between show chapters (**'visible'**) and hide chapters (**'hidden'**) quickly and easily using **SELECT**.

- ④ To end, press **EDIT**.

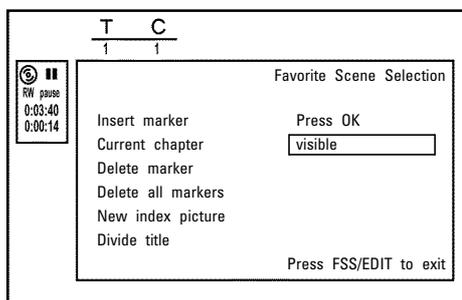
During playback this chapter will be skipped.

If the chapter is not visible, select **'visible'** in step ③ with ►.

Erasing chapter markers

You can erase all or some of the markers within a title.

- ① During playback of the appropriate chapter press **EDIT** on the remote control. The **'Favorite Scene Selection'** menu will appear on the screen



- ② Using ▼ select **'Delete marker'** for this chapter or **'Delete all markers'** for all chapters within the selected title.
- ③ Confirm with **OK**.
- ④ To end, press **EDIT**.



Tip

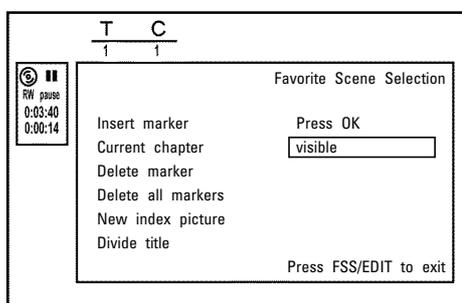
How do I select other chapters?

- ① Press **'T/C'** on the remote control. The title and chapters are shown at the top of the screen.
- ② Using ► or ◀ select Title(T) or Chapter (C).
- ③ Using ▲ or ▼ select the title or chapter you wish to edit.

Changing the index picture

Normally the first picture of a recording is used as the index picture. You can however choose any picture from the recording as the index picture.

- 1 During playback, search for location of the new index picture. Press the **PLAY/PAUSE ►||** button.
- 2 Press the **EDIT** button. The '*Favorite Scene Selection*' menu appears on the TV screen.
- 3 Select line '*New index picture*' and confirm with **OK**.
- 4 Start the change with **OK**. '*Updating menu*' appears on the TV screen.



Once the revision has been completed successfully the DVD recorder reverts to the index overview.

Dividing titles

It is possible to divide a title into several separate parts (titles). Each of these parts (titles) is indicated by a separate index picture.

Please note: This division cannot be reversed

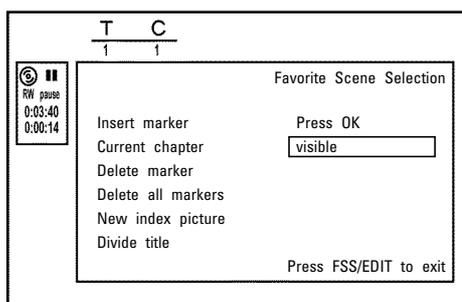


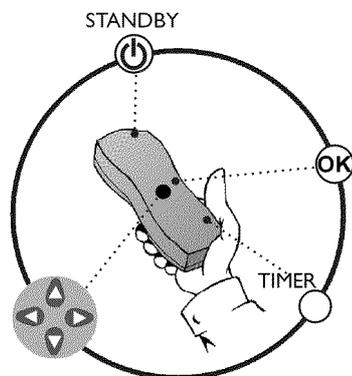
Can I also divide titles on DVD+R discs?

As recordings on DVD+R discs cannot be overwritten, it is not possible to divide titles.

- 1 During playback of the appropriate title press **EDIT** on the remote control. The '*Favorite Scene Selection*' menu will appear on the screen
- 2 Select '*Divide title*' and confirm with **OK**.
- 3 If you are sure, start the process by pressing **OK**. The screen will show '*Dividing title*'.
- 4 Wait until the new title appears with an index picture in the Index Picture overview.

The title is now successfully divided.





General information

Use programmed recording (TIMER) to automatically start and stop a recording at a later date. The DVD recorder will switch to the right program number and begin recording at the correct time.

With this DVD recorder, you can pre-program up to 6 recordings within a period of one month.

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

- * the date you want to make the recording
- * the program number of the TV channel
- * the start and stop time of the recording
- * VPS or PDC on or off
- * the recording mode ('HQ/SP/SP+/LP/EP/EP+').

This information is saved in a TIMER block.

What is 'VPS/PDC'?

With 'VPS' (Video Programming System)/ 'PDC'(Programme Delivery Control) the TV station controls the start and duration of TV channel recordings. If a TV programme starts earlier or ends later than was scheduled, the DVD recorder will still switch itself on and off and the correct times.

What do I need to know about 'VPS/PDC'?

Usually the start time is the **same** as the VPS or PDC time. But if your TV guide gives a VPS or PDC time which is different from the programme's start time, e.g. '20.15 (VPS/PDC 20.14)', you must enter the **VPS/PDC time '20.14' exact to the minute** as the start time.

If you want to programme a time that is different from the VPS or PDC time, you must switch off VPS or PDC.

Only one TV programme on a TV channel can be controlled using 'VPS/PDC' at a time. If you want to record two or more TV programmes on a TV channel using 'VPS/PDC', you will need to programme these as two separate recordings.



Programming a recording (with the 'ShowView® System')

SHOWVIEW®

Thanks to this programming system, you no longer need to tediously enter the date, programme number, start and end times. All the information needed by the DVD recorder for programming is contained in the ShowView® - programming number. This 9-digit ShowView® - number is found in most TV listings magazine.

- 1 Switch on the TV set. If required, select the programme number for the DVD recorder.
- 2 Press **TIMER** on the remote control.
The programming method last selected is marked.
- 3 Select '**ShowView system**' using ▼ or ▲ and confirm with ► .
- 4 Enter the entire ShowView number. This number is up to 9 digits long and can be found next to the start time of the TV programme in your TV listings magazine.
e.g.: 5-312-4 or 5 312 4
Enter 53124 for the ShowView number.
If you make a mistake, you can clear it with **CLEAR** .

Timer	
ShowView system	
ShowView number	

Mo-Fr/Weekly	To store
Press SELECT	Press OK

Selecting daily/weekly recordings

Using **SELECT** , select from the following options:

'**Mo-Fr**': Repeated daily recordings from Monday to Friday.

'**Weekly**': Repeated weekly recordings (every week on the same day).



Tip

- 5 Confirm with **OK** .

*The following message appears on the screen: '**Please enter programme number**'

✓ The programme number of the TV channel has not yet been assigned to the ShowView number. Using ► and ◀ or the number buttons **0..9** on the remote control, select the corresponding programme number (name) of the TV channel and confirm with **OK** .

*The following message appears on the screen: '**ShowView number wrong**'

✓ The ShowView number entered is incorrect. Correct your entry or cancel using the **SYSTEM-MENU** button.
✓ Check the time/date see 'Setting the time and date' in 'Installing your DVD recorder'.

*The following message appears on the screen: '**Weekend programming not possible**'

✓ A daily recording was entered for the wrong day. Daily programming can only be used for recordings to be made from Monday to Friday.



Problem

Timer				
ShowView system				
		VPS		Rec
Date	Prog.	Start	PDC	End
01	BBC1	20:15		21:30
				SP
Mo-Fr/Weekly			To store	
Press SELECT			Press OK	

6 The decoded information appears after confirmation. You can go back at any time to change the information. Select the appropriate input field using **▶** or **◀**. If required, change the information using **▼**, **▲** or the number buttons **0..9**.

Switching on 'VPS/PDC' in the 'Start' input field
 Select the **'Start'** input field using **▶**. Using **SELECT** switch on 'VPS/PDC' (* lights up). If you press **SELECT** again, you will switch 'VPS/PDC' off (* disappears).

Changing the recording quality in the 'End' input field
 Select the **'End'** input field using **▶**. Using **SELECT**, select the recording mode **'HQ, SP+, EP, EP+'**.



- 7 If all the information is correct, press the **OK** button. The programming information is stored in a **TIMER** block.
- 8 To end, press **TIMER**.
- 9 Load a DVD (unprotected) ready for recording. The current disc is checked.
- 10 Switch off with **STANDBY** **⏻**. The programmed recording will only function properly if the DVD recorder has been **switched off** using the **STANDBY** **⏻** button.

If any of the **TIMER** blocks are in use, 'Ⓢ' will light up on the display.

Programming a recording (without the ShowView® System)

- ❶ Switch on the TV set. If required, select the programme number for the DVD recorder.
- ❷ Press **TIMER** on the remote control.
The programming method last selected is marked.
- ❸ Select '**Timer programming**' with ▼ or ▲ . and confirm with ► .
The current information will appear on the screen.
- ❹ Select the input field with ◀ or ▶ .
- ❺ Enter information with ▼ or ▲ or with the number buttons **0..9** .

Timer		Timer programming		VPS	Rec
Date	Prog.	Start	PDC	End	Mode
01	BBC1	20:15		21:30	HQ
Mo-Fr/Weekly				To store	
Press SELECT				Press OK	

Selecting daily/weekly recordings

In '**Date**' use **SELECT** to select from the following options:

'**Mo-Fr**': Repeated daily recordings from Monday to Friday

'**Mo**': Repeated weekly recordings (every week on the same day, e.g. Monday).

Programme numbers of scart sockets '**EXT1**' and '**EXT2**'

You can also programme recordings from external sources via scart socket **EXT 1 TO TV-I/O ('EXT1')** or **EXT 2 AUX I/O ('EXT2')**.

'Switching on '**VPS/PDC**' in the '**Start**' input field

Select the '**Start**' input field using **TIMER**. Using **SELECT** switch on '**VPS/PDC**' (* lights up). If you press **SELECT** again, you will switch '**VPS/PDC**' off (* disappears).

Changing the recording quality in the '**End**' input field

Select the '**End**' input field using **TIMER**.

Using **SELECT**, select the recording mode '**HQ, SP, SP+, LP, EP, EP+**'.



Tip

- ❻ If all the information is correct, press **OK**. The programming information is stored in a **TIMER** block.
- ❼ To end, press **TIMER**.
- ❽ Load a DVD (unprotected) ready for recording.
The disc is checked.
- ❾ Switch off with **STANDBY** ⏻ .
The programmed recording will only function properly if the DVD recorder has been **switched off** using the **STANDBY** ⏻ button.

If any of the **TIMER** blocks are in use, '⏻' will light up on the display.

How to check, change or delete a programmed recording (TIMER)

- ❶ Switch on the TV set. If required, select the programme number for the DVD recorder.
- ❷ Press **TIMER** on the remote control.
The programming mode last selected is marked.
- ❸ Select '*Timer List*' with ▼ or ▲ . and confirm with ► .
- ❹ Select the programmed recording (TIMER) you want to check, change or delete with ▼ or ▲ .

Timer					
Timer List					
Date	Prog.	Start	VPS PDC	End	Rec Mode
01	BBC1	20:15	*	21:30	SP
--	----	--:--		--:--	--

Total record time: 01:15

To change
Press ›

To exit
Press TIMER

Delete programmed recording

- ❶ Press the **CLEAR** button.
- ❷ Confirm with **OK**. '*Timer Cleared*' will briefly appear on the TV screen.
'-- ---' appears rather than the displayed values
- ❸ To end, press **TIMER**.



Tip

- ❺ Press ► .
Select the input field with ◀ or ▶ .
If required, change the information with ▼ , ▲ or the number buttons **0..9** .
- ❻ Confirm with **OK** .
- ❼ To end, press **TIMER** .
- ❽ Switch off with **STANDBY** ⏻ .

'NexTView Link'

This DVD recorder is equipped with the 'NexTView Link' function. If your television is also equipped with this feature, you can mark TV programmes on the television for programming. These TV programmes will automatically be transmitted to a TIMER block on the DVD recorder. If you clear this marking on the television, the corresponding TIMER block on the DVD recorder will also be cleared.

For more information, read the instruction manual for your TV set.

Problem solving for programmed recordings

PROBLEM	SOLUTION
DVD recorder is not responding	✓While a programmed recording is being made, you cannot operate your recorder manually. If you want to cancel the programmed recording, press STANDBY  .
'Switch off, timer recording' flashes on the TV screen.	✓The DVD recorder was switched on several minutes before the start of a programmed recording. Switch off the DVD recorder with STANDBY  . A programmed recording (timer) will only function if the DVD recorder is switched off (button STANDBY ).
Error message: 'Insert recordable disc'	✓Either no disc has been inserted or you cannot record to this disc. Insert a disc that you can record onto. Switch off the DVD recorder using STANDBY  .
The error message 'Disc locked' appears briefly on the screen.	✓A write-protected disc has been inserted. Cancel the protection (see 'Preventing accidental erasing of discs' in 'Manual Recording') or insert a different disc.
Error message: 'Memory full'	✓If this error message appears after pressing TIMER , then all the TIMER blocks are already programmed. No more recordings can be programmed. Press the  button. If you want to clear or check a programmed recording (TIMER block), select it with  or  .
The 'Data error' message appears on the screen.	✓The data for the recording could not be transferred. Please check the date, start time and end time of the programmed recording.
'Collision' appears on the screen.	<ul style="list-style-type: none"> ✓The information for two programmed recordings overlap. ✓If you ignore this error message the TV programme with the earlier start time will be recorded first. You will miss the start of the second programme. ✓Change the information for one of the recordings. ✓Delete one of the recordings

10 User preferences

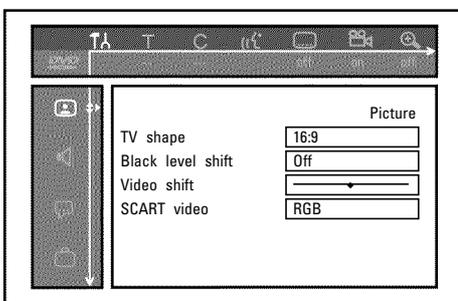
In this section you will learn how to set your user preferences on the DVD recorder. The symbols have the following meanings:

	Picture setting
	Sound setting
	Language setting
	Additional settings
	Remote control settings
	Recording settings
	Installation

- 1 Switch on the TV set. If required, select the programme number for the DVD recorder.
- 2 Press **SYSTEM-MENU** on the remote control. The menu bar appears.
- 3 Select the  icon using **◀** or **▶** and confirm with **▼**.
- 4 Select the appropriate feature using **▼** or **▲** and confirm with **▶**.
- 5 Select the corresponding line using **▼** or **▲** and confirm with **▶**.
- 6 Select the appropriate feature using **▼** or **▲** or the setting using **◀** or **▶**.
- 7 Confirm the setting with **OK**.
- 8 Quit the menu item using **◀**.

Picture settings

You can choose the following features in this menu:



'TV shape'

The picture signal from your DVD Recorder can be set to match your TV screen:

'4:3 letterbox': for a 'wide-screen' picture with black bars at the top and bottom

'4:3 panscan': for a full-height picture with the sides trimmed

'16:9': for a wide-screen TV set (screen edge ratio 16:9)

'Black level shift'

Adapts the colour dynamics for NTSC playback

'Video shift'

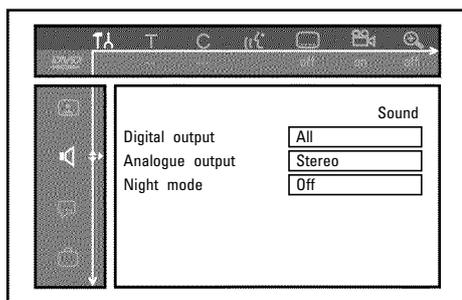
Use this feature to adjust the position of the picture on your TV left or right using ◀, ▶ to suit your TV set.

'SCART video'

By default the recorder is set to '**RGB**'. Select '**S-Video**' if you want to connect an S-VHS recorder.

Sound settings

Depending on which audio outputs are used, you can select the settings in this menu. If you only use the analogue audio output (**OUT L AUDIO R**), select the settings '**Off**' in the '**Digital output**' menu.



'Digital output'

For devices connected to the **DIGITAL AUDIO OUT** socket, you can select from the following settings.

'All': Dolby Digital and DTS signals are fed unaltered to the digital output. MPEG-2 multi-channel signals are converted to PCM (Pulse Code Modulation).
For receivers/amplifiers **with digital multi-channel sound decoders**.

'PCM only': Dolby Digital and MPEG-2 multi-channel signals are converted to PCM (Pulse Code Modulation).
For receivers/amplifiers **without digital multi-channel sound decoders**.

'Off': Digital output switched off.
For devices **with analogue audio input**.

'Analogue output'

For devices connected to the analogue audio output (**OUT L AUDIO R**), you can select from the following settings.

'Stereo': For devices without DolbySurround or TruSurround. Use this setting if the DVD recorder is only connected to a stereo TV set.

'Surround': Dolby Digital and MPEG-2 multi-channel are mixed down to a DOLBY surround-compatible two-channel output signal. For devices **with Dolby Surround Pro Logic decoder**.

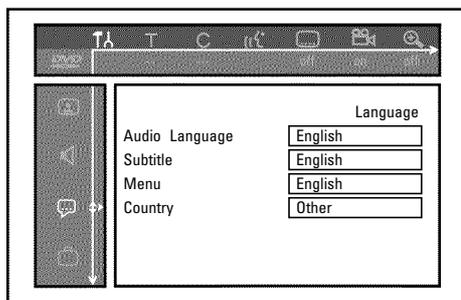
'3D sound': The six channels of the digital surround sound (Dolby Digital, MPEG-2) are mixed down to a two-speaker output signal. All original audio information is retained. The result is an impression of being surrounded by several loudspeakers.
For TruSurround compatible devices.

'Night mode'

Night mode optimises the sound for playback at low volume. You are therefore less likely to disturb your neighbours. This only works for Dolby Digital audio on DVD video discs.

Language settings

You can choose the following settings in this menu:



'Audio Language'

Playback audio language

'Subtitle'

Subtitle language

'Menu'

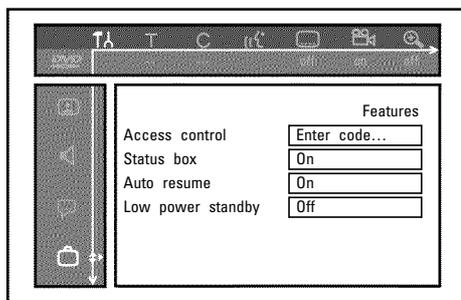
Screen menu language

'Country'

'Country'

Additional settings

You can select the following functions in this menu:



'Access control'

Please read the next chapter 'Access control (child lock)'

'Status box'

Along with the on screen menu, the OSD (On Screen Display) also displays information on the current operating status (counter, playback, recording, TV channel, etc.) on the TV screen. You can switch off the information about the operating status so that the on screen display (OSD) is not recorded during copying.

'On': The OSD information appears in every selected mode for a few seconds and disappears again.

'Off': The OSD information is switched off. It is **no longer** displayed on the screen.

'Auto resume'

If playback of a pre-recorded DVD video disc or video CD is interrupted (button **STOP** ■ or **OPEN/CLOSE**) when the disc is reloaded (disc is started) playback starts at the precise location where it stopped. This applies not only to the current disc but to the last 20 discs played.

This feature can be switched off if not required.

Low power standby

To save power, you can switch off the clock display on the DVD recorder. Programmed (TIMER) recordings will still take place.

'On': If the DVD-Recorder is switched off (button **STANDBY** ⏻), the clock display is also switched off.

'Off': If the DVD-Recorder is switched off (button **STANDBY** ⏻), the clock display is visible.

'PBC'

This line appears only if a VCD is loaded.

This function lets you activate or deactivate the PBC menu (Playback Control) for video CDs. See 'Playing a (Super) Video CD'.

Remote Control settings

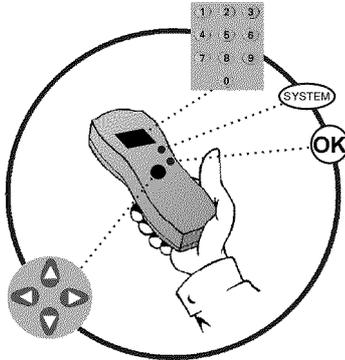
In this menu you can set the remote control type to which your DVD recorder should respond.

'DVD player': The DVD recorder responds to a DVD player remote control. The DVD recorder also responds to the remote control of a DVD player (remote control code RC-6). Choose this setting if your Philips TV remote supports DVD functions.

'DVD recorder': The DVD recorder only responds to the supplied remote control.



Access control (Child Lock)



Child lock (DVD and VCD)

This feature enables discs to be locked for children.

When Child Lock is on, a 4-digit code (PIN) needs to be entered before a disc can be played. You can also decide whether the inserted disc should always be played or should be played only once, despite the child lock

•)'Play always':

This disc is stored in a memory with space for 50 child-safe discs. If more than 50 discs are stored, the last disc in the list is removed and the new disc is added. The screen shows 'Child safe' at the start of playback.

•)'Play once':

This disc is only authorised for single playback. If the recorder is switched off, the PIN code must be re-entered.

Activating/deactivating child lock

- 1 Switch on the TV set. If required, select the programme number for the DVD recorder.
- 2 Switch on the DVD recorder using **STANDBY/ON**.
- 3 Press **SYSTEM-MENU**. The menu bar appears
- 4 Select the icon using **◀** or **▶**.
- 5 Select '**Features**' using **▼** or **▲** and confirm with **▶**.
- 6 Confirm '**Access control**' using **▶**.
- 7 Enter a 4-digit code of your choice. Enter the same code again as confirmation.
- 8 Select '**Child lock**' using **▲** or **▼** and confirm with **▶**.
- 9 Select the icon using **▼** or **▲**.
- 10 Confirm with **OK**.
- 11 Quit the feature using **◀** and **SYSTEM-MENU**.

Unauthorised discs can only be played by entering the four-digit PIN code. To deactivate the child lock, select the icon in **9**.

Authorising a disc

- 1 Insert a disc. The access control box will appear after a short delay.
- 2 Using ▲ or ▼ select '*Play once*' or '*Play always*'.
- 3 Enter your PIN code using the number buttons **0..9**.

Double-sided DVDs may have a different ID for each side. For these discs, each side must be authorised. Multi-volume video CDs may have a different ID for each volume. For these CDs, each volume must be authorised.

Locking unlocked discs

To lock a disc that was formerly authorised follow the instructions below

- 1 Insert a disc. Playback starts automatically. If the playback does not start automatically, press **PLAY/PAUSE ► II**.
- 2 Press the **STOP ■** button while the '^{safe}' icon is visible. The icon changes to '^{locked}'. The disc is now locked.

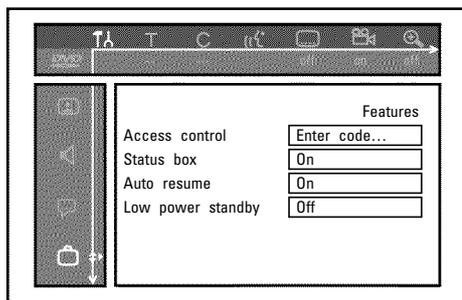
Parental level control (DVD video only)

Films on pre-recorded DVD discs may contain scenes not suitable for children. Therefore, some discs may contain 'Parental Control' rating information that applies to the entire disc or to certain scenes on the disc.

The appropriate scenes have filter values that reach from 1-8. If such a scene is detected during playback, the filter value set on the DVD recorder is compared to the scene. If the filter value is higher than the setting, an alternative scene will be played (if available).

Activating/deactivating parental level control

- 1 Switch on the TV set. If required, select the programme number for the DVD recorder.
- 2 Switch on the DVD recorder using **STANDBY/ON**.
- 3 Press **SYSTEM-MENU**. The menu bar appears.
- 4 Select the '' icon using ◀ or ▶.
- 5 Select '*Features*' using ▼ or ▲ and confirm with ►.



- 6 Confirm '**Access control**' using **▶** .
- 7 Enter a 4-digit code of your choice. If the code is new, you may have to enter the code a second time as confirmation.
- 8 Select the '**Parental level**' using **▲** or **▼** and confirm with **▶** . A bar appears to select the parental level.
- 9 Select the appropriate rating using **▼** , **▲** or the number buttons **0..9** .

What do the ratings mean?

Rating 0 (displayed as '--') parental control not active.

Rating 1 (suitable for children)

Rating 8 (only suitable for adults)

What happens if a DVD scene contains a higher level than the rating set?

If the recorder does not find a suitable alternative, playback will stop and you must enter the four-digit code.



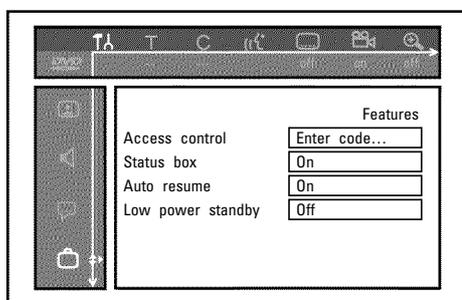
Tip

- 10 Confirm with **OK** . Quit using **◀** and **SYSTEM-MENU** .

Changing the country

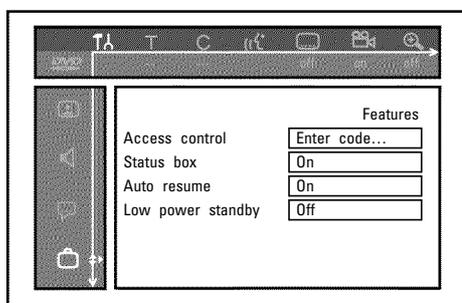
The set filter values depend on the respective country. It is therefore necessary to enter the country to which these filter values apply.

- 1 Switch on the TV set. If required, select the programme number for the DVD recorder.
- 2 Switch on the DVD recorder using **STANDBY/ON** .
- 3 Press **SYSTEM-MENU** . The menu bar appears
- 4 Select the '**T**' icon using **◀** or **▶** .
- 5 Select line '**Features**' using **▼** or **▲** and confirm with **▶** .
- 6 Confirm the line '**Access control**' using **▶** .
- 7 Enter your four-digit code.
- 8 Select '**Change country**' using **▼** or **▲** and confirm with **▶** .
- 9 Select the corresponding country using **▲** or **▼** and confirm with **OK** .
- 10 To end, press **◀** and then **SYSTEM-MENU** .



Changing the PIN code

- 1 Switch on the TV set. If required, select the programme number for the DVD recorder.
- 2 Switch on the DVD recorder using **STANDBY/ON**.
- 3 Press **SYSTEM-MENU**. The menu bar appears.
- 4 Select the **T** icon using **◀** or **▶**.
- 5 Select '**Features**' using **▼** or **▲** and confirm with **▶**.
- 6 Confirm '**Access control**' using **▶**.
- 7 Enter your four-digit PIN code.
- 8 Select '**Change code**' using **▲** or **▼** and confirm with **▶**.
- 9 Enter the new code using the number buttons **0..9**. Enter the same code again as confirmation.
- 10 Quit using **◀** and **SYSTEM-MENU**.



I have forgotten my code

Press **STOP** four times, then press **OK**. Access control is now switched off. You can now enter a new code as described above.

Tip

If you have any problems using this DVD recorder, the reason may be one of the following. You can also call the **customer service centre** in your country.

The telephone numbers can be found on the back of this instruction manual.

Have the model number (MODEL NO) and the production number (PROD.NO) of your recorder ready.

The serial number (PROD. NO.) is printed on the type plate at the back.

PROBLEM	SOLUTION
<p>Your recorder does not respond to any button being pressed and the display shows '15 TV ON?':</p>	<p>✓Recorder in initial installation mode: Switch on the TV, switch over to the DVD recorder socket. Now the menu for language selection should appear. Please read paragraph 'Initial Installation' in the chapter 'Installing your DVD Recorder'.</p>
<p>The device does not react when you press a button, although the remote control works:</p>	<p>✓'Dealer-Mode' is switched on: All buttons on the front of the set are locked. Switch off the function:</p> <ol style="list-style-type: none"> ➊ Pull out the mains plug from the wall outlet. ➋ Press and hold down ■ STOP and OPEN/CLOSE and put back the mains plug into the wall outlet. ➌ As soon as the time or '---' appears in the display (ca. 6 - 10 seconds), release ■ STOP and OPEN/CLOSE.
<p>Your DVD recorder does not respond to any button being pressed:</p>	<p>✓There is no power supply: check the power supply ✓A programmed recording (Timer) is currently being made: If desired, cancel the programmed recording (Timer) with STANDBY ⏻ . ✓There is a technical problem: disconnect from the mains power supply for 30 seconds, then connect again. If this doesn't help, you can reset your DVD recorder to the default factory settings.</p>
<p>Resetting the machine to the default factory settings</p>	<p>✓Important: All the information stored (TV channels, time and date, TIMER) will be lost.</p> <ol style="list-style-type: none"> ➊ Disconnect from the mains power supply. ➋ Press and hold down the STANDBY/ON button on the device and reconnect to the mains power supply. ➌ Release the STANDBY/ON button when '15 TV ON?' appears on the display. All the information stored (TV channels, time and date, TIMER) will be lost. <p>Please read paragraph 'Initial Installation' in the chapter 'Installing your DVD Recorder'.</p>
<p>Remote control does not work:</p>	<p>✓Remote control not pointed toward the DVD recorder: Point the remote control at the machine. ✓There is a technical problem: Take out the batteries, wait for 10 seconds and put them in again. ✓Batteries are flat: Change the batteries.</p>

PROBLEM	SOLUTION
No playback on DVD recorder:	<ul style="list-style-type: none"> ✓There is no recording on the disc: Change disc. ✓You inserted the wrong disc type: Your recorder can play back the following disc types: DVD Video, (Super)Video CD, DVD+R(W), Audio CD, , MP3 CDs ✓You inserted the disc the wrong way: Insert the disc with the label facing upwards ✓Disc is dirty: Clean the disc ✓Wrong region code: The region code of the DVD and the DVD recorder must match. ✓Parental control is on: Read chapter 'Access control (child lock)' ✓You have selected the wrong programme number for the DVD recorder on the TV: on the TV, select the correct programme number for the DVD recorder. ✓The cable connecting the TV set and the DVD recorder has come loose: check the cable.
I cannot playback (Super) Video CDs	<ul style="list-style-type: none"> ✓It is possible that this (Super) Video CD contains a menu and the 'PBC' is switched off. You can see this in status field 'PBC OFF'. To activate this function, proceed as follows: <ol style="list-style-type: none"> ➊ Press SYSTEM-MENU while the (Super) Video-CD is inserted . ➋ Select '⏏' using ◀ or ▶ . ➌ Select line 'Features' using ▼ or ▲ and confirm with ▶ . ➍ Select 'On' in line 'PBC' using ▼ or ▲ . ➎ Confirm with OK and end with SYSTEM-MENU .
Poor playback on DVD recorder: (distorted picture/distorted sound)	<ul style="list-style-type: none"> ✓Your TV set is not properly adjusted. ✓Disc is dirty: Clean the disc ✓Sometimes the picture may be temporarily distorted. This is not a defect of your DVD recorder.
No recording possible:	<ul style="list-style-type: none"> ✓The TV channel you want to record is not stored or you selected the wrong programme number: Check TV channels stored. ✓Disc write-protected (recording protected): Remove write-protection or change the disc. For more information, please see 'Preventing accidental erasing of discs' in chapter 'Manual Recording'. ✓An already finalised DVD+R has been inserted: Change disc.
Programmed recording does not work:	<ul style="list-style-type: none"> ✓You have programmed the wrong time or date: Check time/date. ✓You have not set the TIMER properly: Check the programmed recordings (TIMER block). ✓Locked disc inserted: Remove disc lock. ✓An already finalised DVD+R has been inserted: Change disc. ✓'VPS/PDC' switched on but 'VPS/PDCtime' wrong: 'Enter 'VPS/PDCtime exactly to the minute. Check the aerial.
The wrong TV channel was decoded (entered) after you programmed a recording using ShowView System.	<ol style="list-style-type: none"> ➊ Enter the ShowView programming number of the TV channel you want. ➋ Confirm with OK . ➌ Check the programme number/channel name in the 'Prog.' input field ➍ If this does not correspond to the TV channel you want, select the input field and change the programme number/channel name. ➎ Confirm with OK .
There is picture or sound interference on TV reception:	<ul style="list-style-type: none"> ✓Switch to recording mode 'HQ' with REC MODE during playback from the internal TV tuner (MONITOR button). This will help achieve the best possible picture quality. Before recording, select the recording mode as described in chapter 'Manual Recording', section 'Selecting the recording mode (quality)'. ✓Have your aerial checked. ✓You will find information on how to change the TV system in 'Manual TV channel search' in 'Installing your DVD recorder'.

PROBLEM	SOLUTION
Distorted sound coming from a connected hi-fi amplifier	<ul style="list-style-type: none"> ✓The DVD recorder is connected to the 'Phono-input' of your amplifier: This socket is provided only for record players without a preamplifier. Select a different audio input.
The picture is distorted or black-and-white during playback	<ul style="list-style-type: none"> ✓The TV system of the disc does not match that of your TV set (PAL/NTSC). ✓The recording can be made in colour only when the TV channels or the connected additional device send a colour signal. Black-and-white signals containing no color information (colour subcarriers) cannot be recorded.
No sound signal at the digital output	<ul style="list-style-type: none"> ✓Check whether the sound settings match the selected inputs and connected additional devices. ✓Check whether you have inserted an MP3 CD: In accordance with SDMI (Secure Digital Music Initiative), the digital audio output is turned off during MP3 playback. This is not a defect of your DVD recorder.
A DVD+RW disc cannot be played on certain DVD players	<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 minutes, 'SP': 10 minutes, 'SP+': 13 minutes, 'LP': 15 minutes, 'EP': 20 minutes, 'EP+': 30 minutes ✓Some DVD players cannot play back DVD+RW recordings. You can solve this problem by using a special function: <ol style="list-style-type: none"> ➊ Open the disc tray with OPEN/CLOSE . Insert the disc but do not close the tray. ➋ Hold down the number button 2 on the remote control until the tray closes. The disc is modified. ➌ If this fails to produce the desired result, repeat the procedure using the number button 3 on the remote control. ➍ You can restore the disc to its original condition by pressing 1 . <p>Warning! There is a risk that you can no longer play the disc on other DVD players after this procedure. Therefore, apply this function with particular care.</p>
Other disc errors	<ul style="list-style-type: none"> ✓If it is impossible to play back a disc, you can try and repair it for new recordings using the following function. This will only prepare the disc for erasing. It will not be erased, however, until the recording has been completed. <ol style="list-style-type: none"> ➊ Clean the disc ➋ Open the disc tray with OPEN/CLOSE . Insert the disc but do not close the tray. ➌ Hold down CLEAR on the remote control until the tray closes. The disc is prepared for erasing. ➍ Start recording as with an empty disc.

PHILIPS NORGE AS

Sandstuveien 70,
PO Box 1, Manglerud
N-0612 Oslo

NORWAY

Phone: 2274 8250

PHILIPS

Philips Austria GmbH
Triesterstrasse 64
1101 Wien

AUSTRIA

Tel: 0810 00 12 03

PHILIPS PORTUGUESA, S.A.

Consumer Information Centre
Rua Dr. António Loureiro Borge, nr. 5
Arquiparque, Miraflores
P-2795 L-A-VEHLA

PORTUGAL

Phone: 352-1-4163063

OY PHILIPS AB

Sinikalliontie 3,
02630 Espo
Helsinki

FINLAND

puh. (09) 6158 0250

PHILIPS INFO CENTER

Alexanderstrasse 1
20099 Hamburg

GERMANY

Tel: 0180-535 6767

PHILIPS CE, The Philips Centre,

420 - 430 London Road,
Croydon, Surrey
CR9 3QR

UNITED KINGDOM

Phone: 0870-900-9070

PHILIPS KUNDTJÄNST

Kollbygatan 7,
Akalla,
16485 Stockholm

SWEDEN

Phone: 08-5985 2250

SERVICE CONSOMMATEURS PHILIPS

BP 0101
75622 Paris Cédex 13

FRANCE

Phone: 0825-889 789

PHILIPS KUNDECENTER

Frederikskaj 6,
DK-1780 København V

DENMARK

Tlf: 808 82814

PHILIPS POLSKA

AL. Jerozolimskie 195B
02-222 Warszawa

POLSKA

Tel.: (022)-571-0-571

PHILIPS ELECTRONICS IRELAND LIMITED

Consumer Information Centre
Newstead, Clonskeagh

DUBLIN 14

Phone: 01-7640292

PHILIPS REPRESENTATION OFFICE

Ul. Usacheva 35a
119048 MOSCOW

RUSSIA

Phone: 095-937 9300

PHILIPS SERVICE

V Mezihori 2
180 00 Prague

CZECH REPUBLIC

Phone: (02)-3309 330

PHILIPS CONSUMER ELETRONICS

Servizio Consumatori
Via Casati 26
20052 Monza - Milano

ITALY

Phone: 800 820026

PHILIPS INFO CENTER

Fegistrasse 5
8957 Spreitenbach

SUISSE

Tel.: 0844-800 544

PHILIPS Iberia, S.A.

C/Martinez Villergas, 49
28027 MADRID

SPAIN

Phone: 902-113 384

PHILIPS MÁRKASZERVIZ

Kinizsi U 30-36
Budapest 1119

HUNGARY

Phone: (01)-382 1700

PHILIPS CUSTOMER CARE CENTER

Twee Stationsstraat 80/
80 Rue des Deux Gares
1070 BRUSSEL/BRUXELLES

BELGIUM (for BENELUX)

Tel: 070-222 303

ΦΙΛΙΠΣ ΕΛΛΑΣ ΑΕΒΕ

25ΗΣ ΜΑΡΤΙΟΥ 15
177 78 ΤΑΥΡΟΣ

ΑΘΗΝΑ

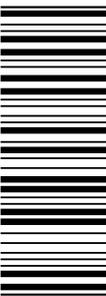
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PHILIPS CONSUMENTENLIJN

t.a.v. betreffende afdeling
Postbus 102 5600 AC Eindhoven

NETHERLANDS

Phone: 0900-8406



3103 605 20062

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www.philips.com