

DVD Recorder Home Entertainment System



**SHOWVIEW®**



**PHILIPS**

## Norge

Typeskilt finnes på apparatens bakside.

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

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

## Italia

### DICHIARAZIONE DI CONFORMITA'

Si dichiara che l'apparecchio LX 9000R Philips risponde alle prescrizioni dell'art. 2 comma 1 del D. M. 28 Agosto 1995 n. 548.

Fatto a Eindhoven

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

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Subject to modification without notice.

## General

Power supply rating	230V / 50 Hz
Power consumption	
Active	< 100 W
Standby	< 5 W
Record timer standby	< 17 W
Dimensions (w x h x d)	435 mm x 96 mm x 405 mm
Weight	9 kg

## Amplifier

Output power	
Stereo mode (1 kHz, 10% THD)	2 x 70 W RMS
Surround mode (1 kHz, 10% THD)	
Front	2 x 81 W RMS
Centre	81 W RMS
Surround	2 x 81 W RMS
Subwoofer	81 W RMS
Total Harmonic Distortion	10%, 1 kHz, 66 W
S/N ratio (unweighted)	≥ 92 dB
(A-weighted)	100 dBA
Stereo separation (1 kHz)	≥ -50 dB
Crosstalk (1 kHz)	≥ -90 dB

## Tuner

Tuning range	
FM	87.5 MHz–108 MHz
MW	531 kHz–1602 kHz
Stereo sensitivity	41 dBf

## DVD

Disc diameter	12 cm / 8 cm
Video DAC	10 bits
Signal system	PAL / NTSC
Video format	4:3 / 16:9
Laser	
Laser type	
DVD	InGaAlP
CD	AlGaAs
Wavelength	
DVD	660 nm
CD	780 nm
Output power (out of objective)	
DVD+RW writing	20 mW
DVD reading	0.8 mW
CD reading	0.3 mW
Beam divergence	
DVD	82 degrees
CD	54 degrees

## Input connections

Analogue LINE IN 1, 2	900 mV / 47 kΩ
Analogue CAM 1 (front)	2.2 V / 10 kΩ
Digital optical	toslink
Digital coaxial	75 Ω acc. IEC958
Scart EXT 1, 2	
TV antenna	75 Ω
FM antenna	75 Ω
MW antenna	300 Ω
S-Video CAM 1 (front)	1 V / 75 Ω
Video CAM 1 (CVBS, front)	1 V / 75 Ω
Digital CAM 2 (DV IN, front)	acc. IEEE 1394 MPEG2

## Output connections

Analogue LINE OUT	1.5 V / 2 kΩ / 0 dB
Digital coaxial	0.5 V / 75 Ω acc. IEC958
TV antenna	75 Ω
Speakers	4 Ω
Subwoofer	8 Ω
Headphone (3.5 mm, 8–600 Ω)	2.8V EMF, R <sub>i</sub> = 80 Ω

## Loudspeakers

Front and rear speakers

System	2 way shielded, Closed Box
Impedance	4 Ω
Speaker drivers	3 x 2" woofers, 1 x 3/4" tweeter
Dimensions (w x h x d)	73 mm x 282 mm x 73 mm

Centre speaker

System	2 way shielded, Closed Box
Impedance	4 Ω
Speaker drivers	4 x 2" woofers, 1 x 3/4" tweeter
Dimensions (w x h x d)	435 mm x 73.5 mm x 65 mm

Subwoofer

System	Bass Reflex
Impedance	8 Ω
Speaker driver	4" woofer
Dimensions base (w x h)	30 mm x 240 mm
Dimensions tube (w x h)	115 mm x 940 mm

### CAUTION

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

**Note:** This warning is located inside the enclosure.

# General information

## Introduction

Record your own DVDs and enjoy the digital surround sound and some of the best features of home cinema technology with your DVD recorder system.

**This set complies with the radio interference requirements of the European Community.**

### CAUTION

**Use of controls or adjustments or performance of procedures other than herein may result in hazardous radiation exposure or other unsafe operation.**

## Supplied Accessories

Your DVD recorder system is delivered with

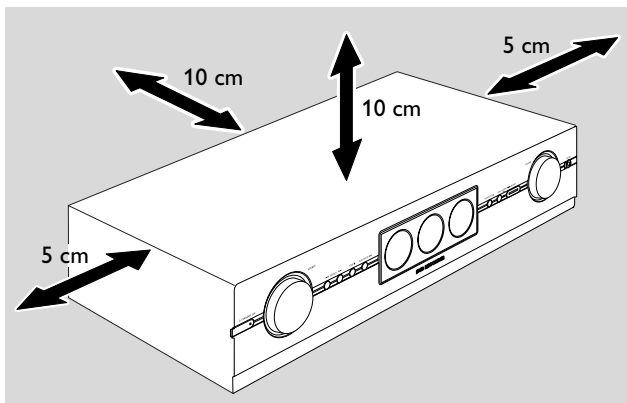
- 2 front, 1 centre and 2 rear speakers
- 2 subwoofers integrated in the speaker stands
- 7 speaker cables
- 1 SCART cable
- 1 cinch audio cable
- 1 TV antenna cable
- 1 FM antenna cable
- 1 MW loop antenna
- 1 AC power cable
- 1 remote control with 2 AA batteries
- 1 blank Philips DVD+RW disc

## Setup

Place the set on a flat, hard and stable surface.

Do not position the set on top of other equipment that might heat it up (e.g. receiver or amplifier).

Allow at least 10 cm clearance from the rear and the top of the set and 5 cm from the left and right to prevent overheating.



Do not block the ventilation openings.

Do not expose the set to dripping or splashing.

Do not place any sources of danger (e.g. lighted candles, objects filled with liquid) on the set.

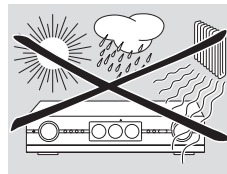
Active mobile phones near the set may cause malfunctions.

## Maintenance

Clean the set with a soft, slightly dampened, lint-free cloth. Do not use any cleaning agents as they may have a corrosive effect.



Do not expose the set, batteries or discs to humidity, rain, sand or excessive heat (caused by heating equipment or direct sunlight).

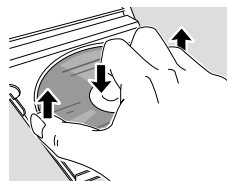


Always keep the tray of your DVD recorder system closed to protect the lens from dust. Do not use any commonly available lens cleaning discs, as they may damage the optical unit of the set.

The lens may cloud over when the set is moved from cold to warm surroundings. Playing or recording a disc is not possible then. Leave the set in a warm environment until the moisture evaporates.

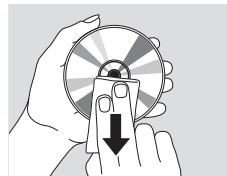
## Disc handling

DVD+Rs and DVD+RWs are very delicate. Please take special care when handling the discs. To take a disc out of its box easily, press the centre spindle while lifting it. After use, always take the disc out of the DVD recorder system and store it in the disc case.



Never attach a sticker to a disc. If you want to provide a disc with an inscription use a soft felt-tipped pen and write only on the printed side.

To clean a disc, wipe it in a straight line from the centre towards the edge using a soft, lint-free cloth. Any cleaning agents may damage the disc!



## Environmental information

All redundant packing material has been omitted. We have done our utmost to make the packaging easily separable into three mono materials: cardboard (box), polystyrene foam (buffer) and polyethylene (bags, protective foam sheet).

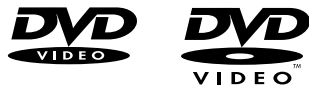
Your set consists of materials which can be recycled if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packing materials, exhausted batteries and old equipment.

## Which discs can be used?

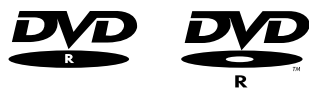
There is a great number of disc types and you can use many of them on your DVD recorder system. Some can be used for playback only, others for playback and recording, but there are a few types of discs which cannot be used with this DVD recorder system. To determine which discs you can use on this DVD recorder system, refer to the logos shown below and look for these logos on your discs.

### Discs for playback only

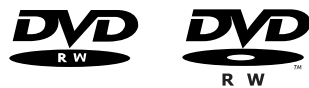
- DVD-Video



- DVD-R  
plays only if it contains DVD Video and if finalised.



- DVD-RW  
plays only if it contains DVD Video and if finalised.



- Video CD, Super-Video CD



- Audio CD



- Audio CDR, Audio CDRW  
plays only if finalised.



- CDR, CDRW  
plays only Audio CD tracks and MP3 files if finalised.



### Discs for playback and recording

- DVD+R  
can be recorded once and played on standard DVD players and DVD recorders, if finalised.

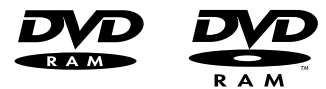


- DVD+RW  
can be recorded, erased and re-recorded many times and played on DVD+RW compatible DVD players and DVD recorders if finalised.



### Discs unsuited for playback or recording

- DVD-RAM



- DVD-Audio



### Region code

DVDs and DVD players are released for specific regions around the world. DVDs must be labelled for ALL regions or for region 2 in order to play them on this DVD recorder system. You cannot play DVDs that are labelled for other regions.



### Trademark and license information

ShowView is a registered trademark of Gemstar Development Corporation.



The ShowView system is manufactured under license from Gemstar Development Corporation.

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



Manufactured under license from Digital Theater Systems, Inc. US Pat. No. 5,451,942, 5,956,674, 5,974,380, 5,978,762 and other world-wide patents issued and pending. "DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc. Copyright 1996, 2000 Digital Theater Systems, Inc. All Rights reserved.

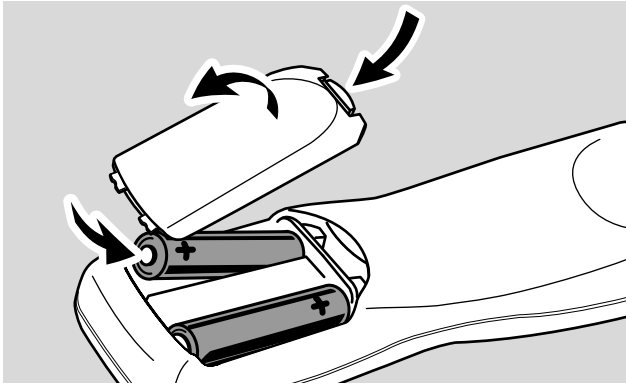


**See license, trademark and warning notice on the bottom of the set.**



# Remote Control

## Inserting the batteries



- 1 Open the battery compartment of the remote control and insert 2 alkaline batteries, type **AA** (R06, UM-3).
- 2 Close the battery compartment.






Do not use old and new or different types of batteries in combination.

Remove batteries if they are empty or if the remote control will not be used for a long time.

**Batteries contain chemical substances, so they should be disposed of properly.**

## Using the remote control

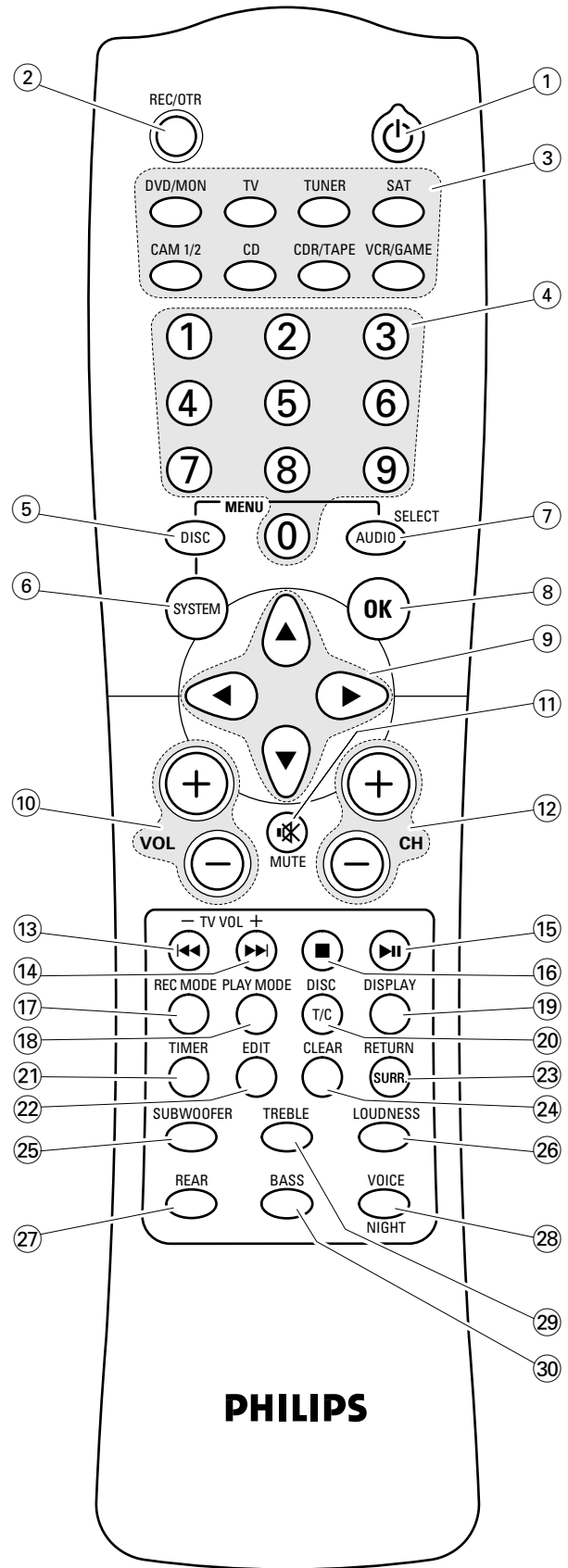
With this remote control you can control the DVD recorder system as well as other Philips appliances such as a Philips TV, VCR or CD player.

To control a Philips appliance, briefly press the corresponding source key (TV, SAT, CAM 1/2, CD, CDR or VCR) on the remote control. Some of the remote control keys, e. g. , 0-9, CH+, CH-, , , ,  can be used to control the appliance then. To control the DVD recorder system with these keys, press TUNER or DVD/MON.

To select a source on the DVD recorder system, keep the source key (TV, SAT, CAM 1/2, CD, CDR or VCR) on the remote control pressed for 1 second.

To select CAM 2 (or TAPE, GAME), first select CAM 1 (or CDR, VCR), then keep the corresponding key pressed for 1 second.

To control the DVD recorder system, please point the remote control at the DVD recorder system and not at the TV.

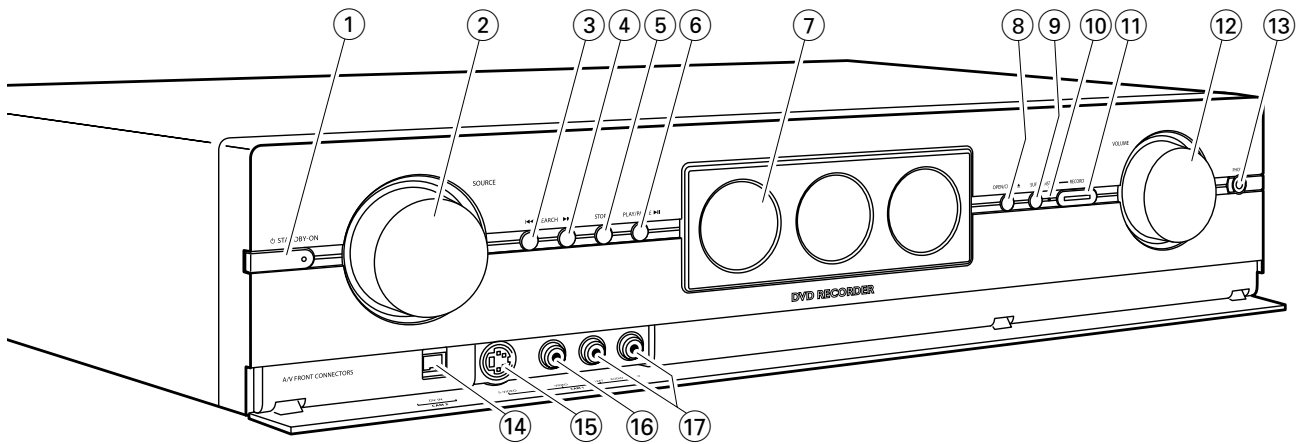




## Remote control keys

- ① **⏻**  
switches the DVD recorder system and a Philips appliance on or to standby
- ② **REC/OTR**  
starts recording the TV channel or video source selected on the DVD recorder system
- ③ **DVD/MON**  
selects the disc in the tray or the TV channel selected on the DVD recorder system
- TV**  
selects the TV
- TUNER**  
selects the radio tuner; selects the waveband and switches between FM mono and FM stereo
- SAT**  
selects a connected satellite receiver
- CAM 1/2**  
selects the camcorder inputs on the front
- CD**  
selects a connected CD player
- CDR/TAPE**  
selects a connected CD recorder; tape deck or similar
- VCR/GAME**  
selects a connected VCR or game console
- ④ **0-9** to key in numbers 0-9
- ⑤ **DISC MENU**  
enters the disc menu
- ⑥ **SYSTEM MENU**  
enters the system menu of the DVD recorder system
- ⑦ **AUDIO MENU / SELECT**  
enters the audio menu of the DVD recorder system and selects an option in the system menu
- ⑧ **OK**  
confirms menu options
- ⑨ **Arrow keys** **◀, ▶, ▲, ▼**  
to move in a menu
- ⑩ **VOL +, VOL -**  
increases/decreases the volume of the DVD recorder system
- ⑪ **🔇**  
mutes the sound of the DVD recorder system
- ⑫ **CH +, CH -**  
selects a TV channel on the DVD recorder system and selects a preset radio station
- ⑬ **⏮ / -TVVOL**  
skips to the beginning of the current or previous chapter/title/track of the inserted disc, searches backwards, tunes to a radio station with a lower frequency and decreases the volume of a Philips TV
- ⑭ **⏭ / TVVOL +**  
skips to the beginning of the next chapter/title/track of the inserted disc, searches forwards, tunes to a radio station with a higher frequency and increases the volume of a Philips TV
- ⑮ **⏸**  
starts/pauses playback and closes the disc tray
- ⑯ **■**  
stops playback or recording
- ⑰ **REC MODE**  
selects a recording mode: HQ, SP, SP+, LP, EP or EP+
- ⑱ **PLAY MODE**  
selects different playback modes like REPEAT or SHUFFLE
- ⑲ **DISPLAY**  
selects various display information
- ⑳ **T/C / DISC**  
switches between title, track and chapter and changes discs on a Philips CD changer
- ㉑ **TIMER**  
enters the timer recording menu
- ㉒ **EDIT**  
enters the menu Favorite Scene Selection
- ㉓ **SURR. / RETURN**  
selects the different surround modes and returns to the previous menu on a (Super) Video CD
- ㉔ **CLEAR**  
clears an entry (eg. timer preset)
- ㉕ **SUBWOOFER** (in combination with VOL+ or VOL-)  
adjusts the subwoofer volume
- ㉖ **LOUDNESS**  
switches loudness on and off
- ㉗ **REAR** (in combination with VOL+ or VOL-)  
adjusts the volume of the rear speakers
- ㉘ **VOICE / NIGHT**  
switches ClearVoice or Night mode on or off
- ㉙ **TREBLE** (in combination with VOL+ or VOL-)  
adjusts the treble
- ㉚ **BASS** (in combination with VOL+ or VOL-)  
adjusts the bass

# Controls and connections

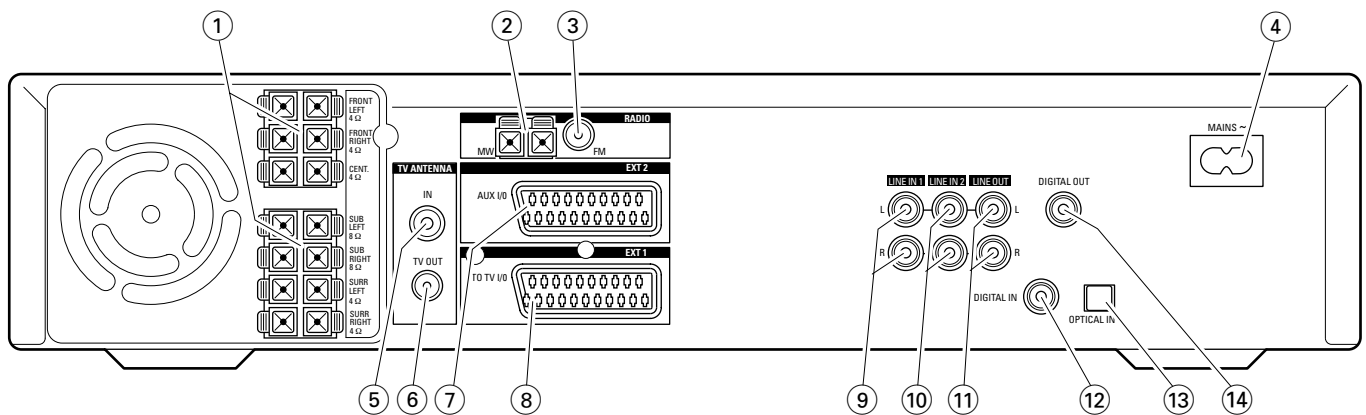


## Controls on the front

- ① **STANDBY-ON**  
switches the set on or to standby
- ② **SOURCE**  
selects a source
- ③ **SEARCH**  
skips to the beginning of the current or previous chapter/title/track of the inserted disc, searches backwards
- ④ **SEARCH**  
skips to the beginning of the next chapter/title/track of the inserted disc, searches forwards
- ⑤ **STOP**  
stops playback or recording
- ⑥ **PLAY/PAUSE**  
starts/pauses playback
- ⑦ display/DVD recorder drawer
- ⑧ **OPEN/CLOSE**  
opens/closes the DVD recorder drawer
- ⑨ **SURR.**  
selects the different surround modes
- ⑩ **INSTANT - RECORD** (status light)  
indicates if immediate recording is possible
- ⑪ **RECORD**  
starts recording a TV channel or an external video source selected on the DVD recorder system (the key is illuminated while recording is in progress)
- ⑫ **VOLUME**  
adjusts the volume

## Connections on the front

- ⑬ **PHONES**  
3.5 mm headphone socket
- ⑭ **DV IN / CAM 2**  
connect to the i.Link output of your Digital Video (DV) or Digital 8 camcorder
- ⑮ **S-VIDEO / CAM 1**  
connect to the S-video output of your Hi-8 or S-VHS camcorder
- ⑯ **VIDEO / CAM 1**  
connect to the video (CVBS) output of your camcorder
- ⑰ **AUDIO LEFT/RIGHT / CAM 1**  
connect to the audio output of your camcorder



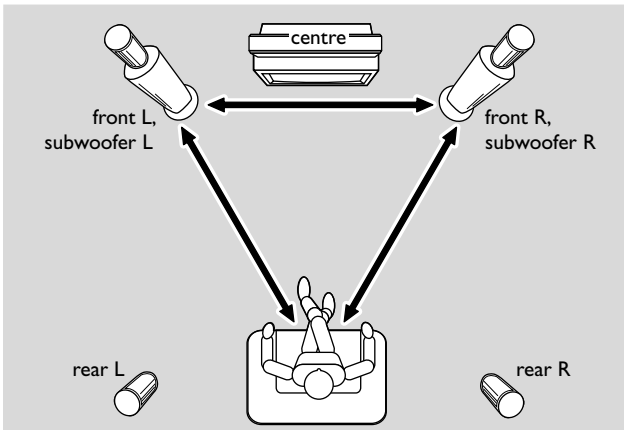
## Connections on the rear

- ① connect to the supplied speakers
- ② **RADIO / MW**  
connect to the MW antenna
- ③ **RADIO / FM**  
connect to the FM antenna
- ④ **MAINS ~**  
*After all other connections have been made,*  
connect the mains lead to the wall socket.
- ⑤ **TV ANTENNA / IN**  
connect to the TV antenna
- ⑥ **TV ANTENNA / TV OUT**  
connect to the TV antenna input of your TV
- ⑦ **EXT 2 / AUX I/O**  
connect to the SCART socket of an external video appliance
- ⑧ **EXT 1 / TO TV I/O**  
connect to the SCART socket of the TV
- ⑨ **LINE IN 1 L/R**  
connect to the analogue audio output of an external appliance (e. g. tape deck, CD changer, ...)
- ⑩ **LINE IN 2 L/R**  
connect to the analogue audio output of an external appliance (e. g. tape deck, CD changer, ...)
- ⑪ **LINE OUT L/R**  
connect to the analogue audio input of an external appliance (e. g. tape deck, ...)
- ⑫ **DIGITAL IN**  
connect to the digital coaxial output of a digital appliance
- ⑬ **OPTICAL IN**  
connect to the digital optical output of a digital appliance
- ⑭ **DIGITAL OUT**  
connect to the digital coaxial input of a digital appliance

**Before starting with the connections, make sure all appliances that you want to connect as well as the DVD recorder system are disconnected from the power sockets.**

# Speaker setup/Connecting ...

## Speaker setup



- 1 First, assemble the speakers as described in the supplied "Quick use guide". You can place the subwoofers either in the front or in the rear.
- 2 Place the front left and right speakers at equal distances from your TV. The distance between the listener's position and the front speakers should be approximately equal to the distance between the two front speakers.
- 3 Place the centre speaker above or below the TV set.
- 4 Place the rear speakers to the left and right of your preferred listening position.

### Notes:

Keep the speakers away from the corners of the room.  
Position the speakers at ear level.

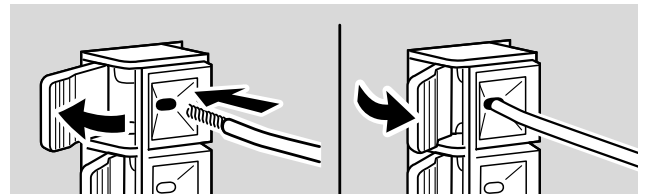
## Connecting the speakers

Connect the supplied speakers using the supplied speaker cables. Match the colours of the speaker sockets and the speaker cables:

Speaker	+	-
Front Left	white	black
Front Right	red	black
Centre	green	black
Subwoofer Left	violet	black
Subwoofer Right	violet	black
Rear Left	blue	black
Rear Right	grey	black

Note: If you placed the subwoofers in the rear, the colours of the cables will no longer match the speaker sockets on the subwoofers.

We recommend connecting all speakers. At least the front speakers and the subwoofers must be connected.

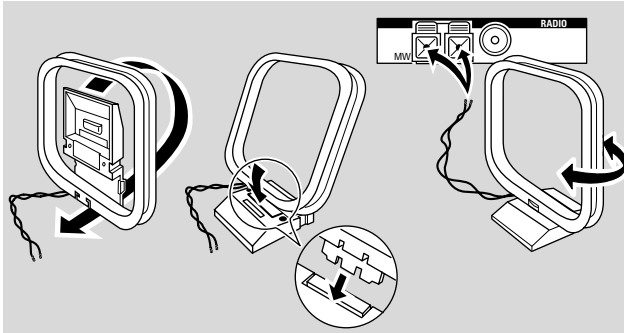


- Press down the clip of the speaker and fully insert the stripped portion of the speaker cable into the socket, then release the clip.

## Connecting the tuner antennas

### MW antenna

- Assemble the supplied MW loop antenna as shown below and connect it to RADIO MW.



#### Notes:

After finishing the hookup and the initial setup, move the MW antenna in various directions to achieve best reception.

Keep the antenna as far away as possible from the TV, VCR or other electronic appliances.

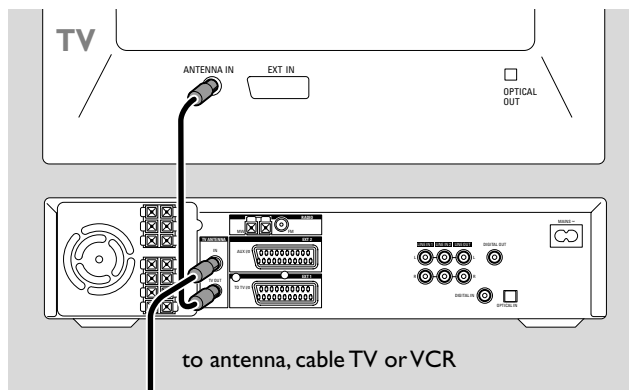
For better reception connect an outdoor antenna or a cable TV system.

The supplied antenna is for indoor use only.

### FM antenna

- Connect the FM antenna socket of an outdoor FM antenna or that of your cable TV system to RADIO FM on the DVD recorder system with the supplied FM antenna cable.

## Connecting the TV antenna



- 1 Disconnect the antenna cable from the TV's antenna input and connect it to TV ANTENNA IN on the DVD recorder system.
- 2 Connect TV ANTENNA TV OUT on the DVD recorder system to the TV's antenna input with the supplied antenna cable.

If you connect an appliance or change its connection after the initial installation, you need to "install" it on the DVD recorder system, i. e. you have to tell the DVD recorder system to which socket the appliance is connected. Otherwise the appliance will not be available on the DVD recorder system. Please see "When adding appliances or changing the connections of appliances". This is not necessary for appliances connected to CAM 1 and CAM 2.

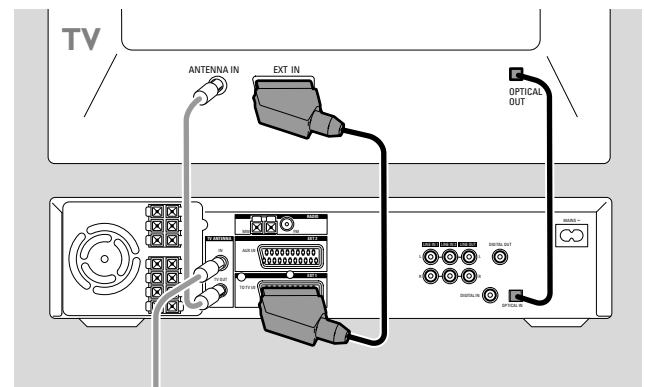
## Connecting the TV

Consult the user's manuals of your TV on which SCART sockets are available and how to connect them to other video appliances.

If several SCART sockets are available on your TV, select one that is suited for RGB input to achieve the best picture quality.

If your Philips TV supports EasyLink, please select the SCART socket number 2 on the TV (EXT2, EXTERNAL 2 or similar) which supports EasyLink.

Connect the TV directly to the DVD recorder system without a VCR or any other appliance in between. Otherwise, not all functions of the DVD recorder system may be available.



- 1 Connect the SCART socket of the TV (EUROCONNECTOR, EURO-AV or similar) to EXT 1 TO TV I/O on the DVD recorder system with the supplied SCART cable.
- 2 If you have a digital TV with a digital audio output, connect either
  - its digital coaxial output to DIGITAL IN on the DVD recorder system with a digital cinch cable or
  - its digital optical output to OPTICAL IN on the DVD recorder system with a digital optical cable.

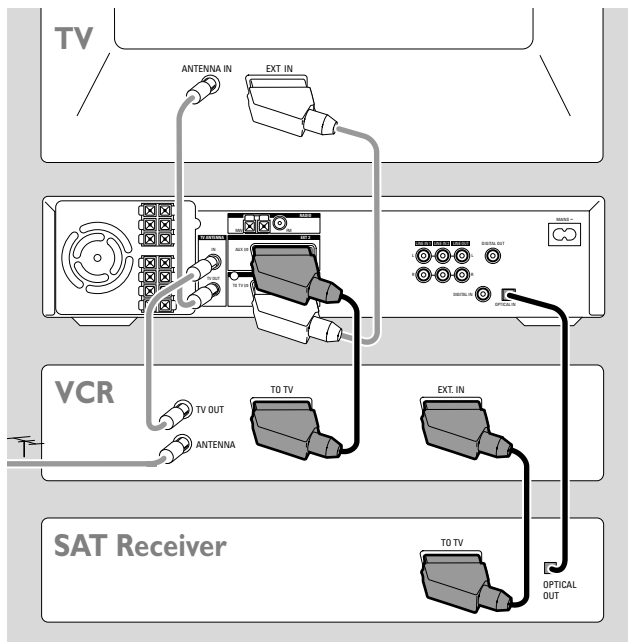
# Connecting ...

## Connecting additional video appliances

You can connect several video appliances with a SCART socket to EXT2 AUX I/O by connecting them in a "chain": In the illustration below, a satellite receiver is connected to a VCR and the VCR to the DVD recorder system.

Please keep in mind that the appliance closest to the DVD recorder system will provide the input signal if several appliances in the chain are switched on. Therefore: When selecting a video appliance connected to EXT2 AUX I/O, make sure that all other appliances connected to EXT2 AUX I/O are switched off or to standby.

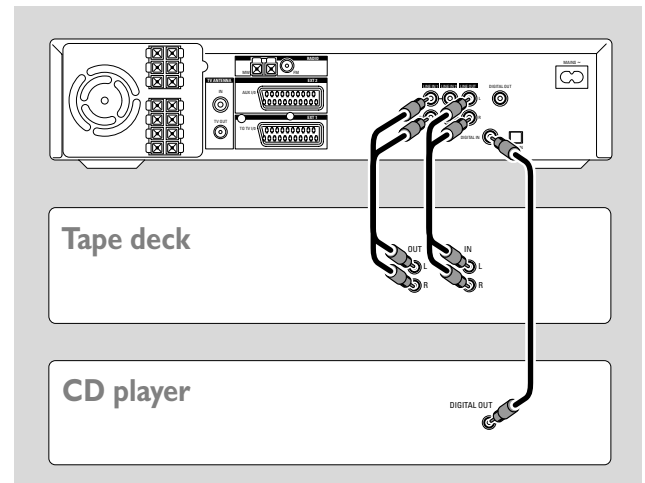
Consult the user's manuals of the video appliances you wish to connect on which SCART sockets are available and how to connect them to other video appliances.



- 1 Connect the SCART socket of a video appliance to EXT2 AUX I/O on the DVD recorder system with a SCART cable. If the appliance has several SCART sockets, use the one labelled TO TV or similar.  
*Note: Use RGB capable SCART cables only. Some other SCART cables are only partially wired, resulting in a moderate picture quality and less functionality of the SCART connection.*
- 2 Connect another video appliance to the free SCART socket on the video appliance which is already connected to the DVD recorder system.
- 3 If a digital video appliance (e. g. satellite receiver or game console) supports digital surround sound, connect either
  - the digital coaxial output of the appliance to DIGITAL IN on the DVD recorder system with a digital cinch cable,
  - the digital optical output of the appliance to OPTICAL IN on the DVD recorder system with a digital optical cable.

## Connecting additional audio appliances

Please consult the user's manual of your audio appliances on which connections are possible.



### Analogue connections

- 1 Connect the left and right analogue output sockets of your tape deck, CD player or similar to LINE IN 1 L/R or LINE IN 2 L/R on the DVD recorder system with an audio cinch cable.  
*Note: You cannot connect a turntable to LINE IN 1 or 2.*
- 2 Connect the left and right analogue input sockets of a tape deck or similar recording appliance to LINE OUT L/R on the DVD recorder system with an audio cinch cable.

### Digital connections

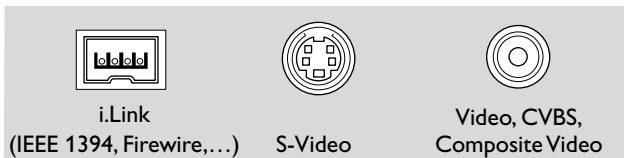
- 1 Connect either
  - the digital coaxial output socket of your CD recorder, CD player or similar to DIGITAL IN on the DVD recorder system with a digital cinch cable or
  - the digital optical output socket of your CD recorder, CD player or CD changer to OPTICAL IN on the DVD recorder system with a digital optical cable.
- 2 Connect the digital coaxial input socket of your CD recorder or similar digital recording appliance to DIGITAL OUT on the DVD recorder system with a digital cinch cable.

*Note: DIGITAL OUT provides digital 2-channel stereo sound. The DVD recorder system converts digital multichannel sound into 2-channel stereo sound without loss of relevant sound information.*

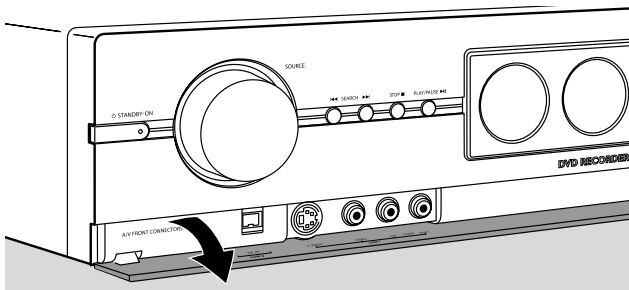
## Connecting a camcorder to CAM 1 or CAM 2

You can connect 2 camcorders to the connections CAM 1 and CAM 2. The picture quality depends on the type of connection between the camcorder and the DVD recorder system:

- good quality: Composite Video (Video CVBS)
- better quality: S-Video
- best quality: i.Link (IEEE 1394, Fire Wire)



Select the best connection available. Only one video connection between the DVD recorder system and the camcorder is needed.



- 1 Open the flap on the front of the DVD recorder system.
- 2 Connect the camcorder to CAM 1 or CAM 2 following the instructions in the user's manual of your camcorder.

*Note: If the camcorder connected to CAM 1 has mono sound only, connect the audio output of the camcorder to CAM 1 AUDIO RIGHT on the DVD recorder system.*

## Connecting headphones

- Connect the headphones with an 3.5 mm plug to PHONES on the DVD recorder system.
  - The speakers are switched off automatically. Sound will be reproduced through the headphones only.

*Note: With connected headphones, no surround sound is available. If you press SURROUND, DISCONNECT HEADPHONES will be scrolled on the display of the DVD recorder system.*

## Mains

**The type plate is located on the rear of the set.**

- 1 Check whether the mains voltage as shown on the type plate corresponds to your local mains voltage. If it does not, consult your dealer or service organisation.
- 2 Make sure your TV is switched on before connecting the DVD recorder system to the mains supply for the first time.
- 3 **Make sure all connections have been made before connecting the DVD recorder system to the mains supply.**
- 4 Connect the supplied mains cable to AC MAINS ~ and to the wall socket.

When the set is switched to standby, it is still consuming some power: **To disconnect the set from the mains completely, remove the mains plug from the wall socket.**

**To avoid overheating of the set a safety circuit has been built in. Therefore your set may disconnect under extreme conditions. If this happens, switch the set off and let it cool down before reusing it.**

When you connect the DVD recorder system to the mains supply for the first time, you need to perform some basic settings. See "Initial installation".

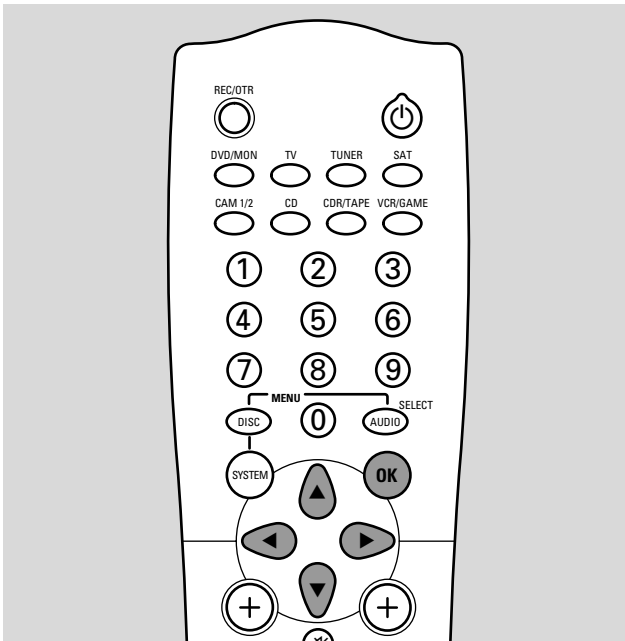







# Initial installation

During the initial installation, you will perform some basic settings of the DVD recorder system. You can change all settings of the initial installation later on. To change these settings please see the chapters of "System settings" and **Picture** and **Language** in "User preferences".



## Basic settings

Please observe the screen of your TV and the display of the DVD recorder system.





- 1 Switch on your TV.
- 2 Connect the supplied mains cable to AC MAINS ~ and to the wall socket. If the DVD recorder system is in demo mode, press  to cancel the demo mode.  
→ IS TV ON? is displayed on the DVD recorder system.
- 3 If necessary set the TV to the correct audio/video channel for the DVD recorder system. Such channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1, EXT2 or EXTERNAL IN, etc. These channels are often near channel 00.  
*Note: If your TV supports EasyLink, the TV and the DVD recorder system exchange information via the SCART cable. In this case, **EasyLink loading data from TV, please wait** will appear on the TV. Some of the following settings will be done automatically then.*
- 4 → The menu **Menu Language** appears on the TV screen.  
Press  or  to select the language in which the display messages should appear on the TV screen. Then press OK.
- 5 → The menu **Audio language** appears.  
Press  or  to select the language in which DVDs should preferably be played, if the language is available on the disc. Then press OK.

- 6 → The menu **Subtitle Language** appears.

Press  or  to select the language in which subtitles should preferably be displayed, if subtitles in the language are available on the disc. Then press OK.

*Note: Some DVDs may override your audio and subtitle language selection. In this case, you have to select the audio and subtitle language in the DVDs Disc Menu.*



- 7 → The menu **TV Shape** appears.

Press  or  to select the screen format. This setting will have an effect only with DVDs supporting different screen formats.

- **4:3 letterbox**: for a wide-screen picture (cinema format) on a conventional 4:3 TV set 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.

Then press OK.

- 8 → The menu **Country** appears.

Press  or  to select the country where the DVD recorder system is used. If your country does not appear, select **Other**. Then press OK.

- 9 → If you have connected the antenna - press OK appears.



If you connected the DVD recorder system to a TV antenna or a cable TV system, press OK.

If not, connect the antenna as described in "Connecting the TV antenna", then press OK.

- **Searching for TV channels** appears and the automatic search for TV channels starts. This may take several minutes. As soon as the search is complete, **Autom. search complete** appears.

- 10 → **Time, Year, Month** and **Date** appear.

If the settings are correct continue with step 13, else press  repeatedly to select either **Time, Year, Month** or **Date**.

- 11 Press  or  or 0-9 repeatedly to set the correct value.
- 12 If necessary, repeat steps 10 and 11 until all settings of the time and date are correct.
- 13 Press OK.  
→ **CONTINUE WITH SPECIAL AUDIO SETTINGS** is scrolled on the DVD recorder system.

- 14 Continue with "Advanced settings".

## Advanced settings

You will be asked

- about the distances between the speakers and your preferred listening position and
- to which input sockets on the DVD recorder system you connected other appliances.

**If you want to skip the advanced settings and to use standard settings for the speaker distances and the connections (see “Quick use guide”):**

Press ▼ to select **NO**, and continue with step 11 below.

**If you want to continue with the advanced settings:**

Press OK.

→ **SPEAKER DISTANCES** is scrolled.

- 1** → **FRONT** and **3, 0M** are displayed.

Press ▲ or ▼ repeatedly to set the distance of your preferred listening position to the front speakers.

Then press OK to confirm.

- 2** → **CENTER** and **3, 0M** are displayed.

Repeat step 1 for the centre speaker.

- 3** → **REAR** and **1, 5M** are displayed.

Repeat step 1 for the rear speakers.

→ **SOURCE SETUP** is scrolled.

- 4** → **DIGITAL AUDIO FROM TV?** is scrolled.

Press ▼ repeatedly to select

- **NO** if there is no digital audio connection between the TV and the DVD recorder system,
- **DIG** if you connected the TV’s digital coaxial output to **DIGITAL IN** on the DVD recorder system,
- **OPT** if you connected the TV’s digital optical output to **OPTICAL IN** on the DVD recorder system.

Press OK to confirm.

- 5** → **VCR CONNECTED?** is scrolled and **YES** is displayed.

**If you did not connect a VCR to the DVD recorder system:**

Press ▼ to select **NO**, then press OK.

**If you connected a VCR:**

Press OK.

→ **WHICH INPUT?** is scrolled.

Press ▼ repeatedly to select

- **EXT2** if you connected the VCR to **EXT 2 AUX I/O** or
- **EXT 1** if you connected the VCR to **EXT 1 TO TV I/O** on the DVD recorder system.

Press OK to confirm.

→ **DIGITAL AUDIO?** is scrolled.

Press ▼ repeatedly to select

- **NO** if there is no digital audio connection between the VCR and the DVD recorder system,
- **DIG** if you connected the digital coaxial output of the VCR to **DIGITAL IN** on the DVD recorder system,
- **OPT** if you connected the digital optical output of the VCR to **OPTICAL IN** on the DVD recorder system.

Press OK to confirm.

- 6** → **SAT CONNECTED?** is scrolled and **YES** is displayed.

Repeat step 5 for a satellite receiver.

- 7** → **GAME CONNECTED?** is scrolled and **YES** is displayed.

Repeat step 5 for a game console.

- 8** → **CD CONNECTED?** is scrolled and **YES** is displayed.

**If you did not connect a CD player to the DVD recorder system:**

Press ▼ to select **NO**, then press OK.

**If you connected a CD player:**

Press OK.

→ **WHICH INPUT?** is scrolled.

Press ▼ repeatedly to select

- **LINE 1** or **LINE 2** if you connected the analogue audio output of the CD player to **LINE IN 1** or **LINE IN 2** on the DVD recorder system,
- **DIG** if you connected the digital coaxial output of the CD player to **DIGITAL IN** on the DVD recorder system,
- **OPT** if you connected the digital optical output of the CD player to **OPTICAL IN** on the DVD recorder system.

Press OK to confirm.

- 9** → **CDR CONNECTED?** is scrolled and **YES** is displayed.

Repeat step 8 for a CD recorder or similar.

- 10** → **TAPE CONNECTED?** is scrolled and **YES** is displayed.

Repeat step 8 for a tape deck or similar.

→ **SOURCE SETUP COMPLETE** is scrolled.

- 11** Press OK.

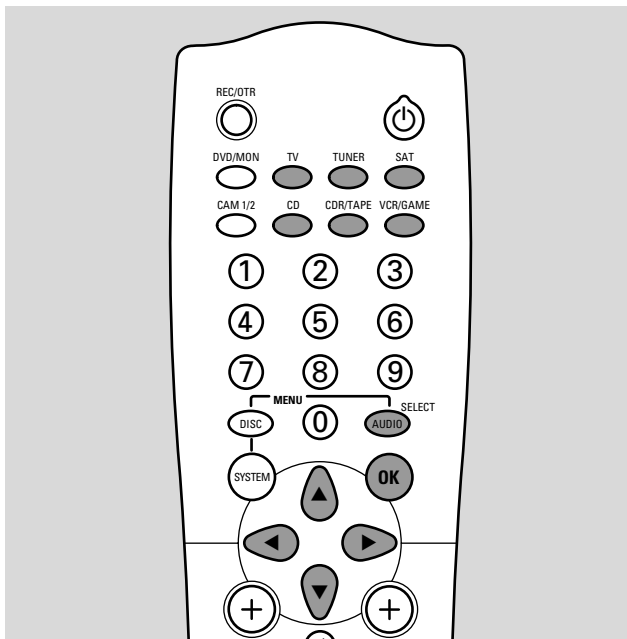
→ **AUTOINSTALL** is displayed. The DVD recorder system searches for available radio stations and stores them in its memory.

→ After the search **INSTALLATION COMPLETE** is scrolled and a radio station is played. The DVD recorder system is ready to play.


# System settings

## When adding appliances or changing the connections of appliances

If you have connected additional appliances or changed the connections after the initial installation, you need to tell the DVD recorder system to which socket on the rear of the DVD recorder system the appliance is connected.



### After changing the connection of the TV

- 1 Press AUDIO MENU to enter the audio menu.
- 2 Press ▼ repeatedly to select *INPUTS*, then press ►.
- 3 Turn SOURCE on the DVD recorder system or keep TV on the remote control pressed for 1 second.  
→  and *AUDIO -->* are displayed.
- 4 Press ▼ repeatedly to select  
→ *EXT 1* if you connected the TV to EXT 1 only (no digital audio connection between the TV and the DVD recorder system),  
→ *DIG* if you connected the digital coaxial output of the TV to DIGITAL IN,  
→ *OPT* if you connected the digital optical output of the TV to OPTICAL IN on the DVD recorder system.
- 5 Press OK to store the setting.
- 6 Press AUDIO MENU to exit the audio menu.

### After changing the connections of the VCR , satellite receiver or game console

- 1 Press AUDIO MENU to enter the audio menu.
- 2 Press ▼ repeatedly to select *INPUTS*, then press ►.
- 3 Turn SOURCE on the DVD recorder system or use the source keys on the remote control to select the VCR, satellite receiver or game console.  
→ *AVAILABLE* and *YES* or *NO* are displayed.



### 4 If the appliance is not connected to the DVD recorder system:

Press ▼ repeatedly to select *NO*, then press OK.  
→ *STORED* is displayed.

### If the appliance is connected to the DVD recorder system:

Press ▼ repeatedly to select *YES*, then press OK.  
→ *VIDEO -->* is displayed.

Press ▼ repeatedly to select

- *EXT 1* if you connected the appliance to EXT 1,
- *EXT 2* if you connected the appliance to EXT 2,
- *NONE* if you did not connect the appliance to EXT 1 or EXT 2 on the DVD recorder system.

Press OK to confirm.

→ *AUDIO -->* is displayed.

Press ▼ repeatedly to select either

- *EXT 1* or *EXT 2* if you connected the appliance to EXT 1 or EXT 2 only (no digital audio connection between the appliance and the DVD recorder system),
- *LINE 1* or *LINE 2* if you connected the audio output of the appliance to LINE IN 1 or LINE IN 2 (available only if you selected *VIDEO -->* *NONE*),
- *DIG* if you connected the digital coaxial output of the appliance to DIGITAL IN,
- *OPT* if you connected the digital optical output of the appliance to OPTICAL IN on the DVD recorder system.

Press OK to store the settings.

→ *STORED* is displayed.

- 5 Press AUDIO MENU to exit the audio menu.

## After changing the connections of the CD recorder , CD player or tape deck

- 1 Press AUDIO MENU to enter the audio menu.
- 2 Press ▼ repeatedly to select *INPUTS*, then press ►.
- 3 Turn SOURCE on the DVD recorder system or use the source keys on the remote control to select either the CD recorder, CD player or tape deck.  
→ *AVAILABLE* and *YES* or *NO* are displayed.

### 4 If the appliance is not connected to the DVD recorder system:

Press ▼ repeatedly to select *NO*, then press OK.  
→ *STORED* is displayed.

### If the appliance is connected to the DVD recorder system:

Press ▼ repeatedly to select *YES*, then press OK.  
→ *AUDIO ->* is displayed.

Press ▼ repeatedly to select  
→ *LINE 1* or *LINE 2* if you connected the analogue audio output of the appliance to LINE IN 1 or LINE IN 2,  
→ *DIG* if you connected the digital coaxial output of the appliance to DIGITAL IN,  
→ *OPT* if you connected the digital optical output of the appliance to OPTICAL IN on the DVD recorder system.

Press OK to store the settings.  
→ *STORED* is displayed.

- 5 Press AUDIO MENU to exit the audio menu.

## When changing the speaker setup

If you have connected, disconnected or moved the speakers after the initial installation, you need to change the speaker settings.

### Setting which speakers are connected

- 1 Press AUDIO MENU to enter the audio menu.
- 2 Press ▼ repeatedly to select *LS SETUP*, then press ►.
- 3 Press ▼ repeatedly to select  
→ *ENTR LS*: the centre speaker or  
→ *REAR LS*: the rear speakers.
- 4 Then press ►.
- 5 Press ▼ repeatedly to select  
→ *YES* if the selected speaker type is connected or  
→ *NO* if the selected speaker type is not connected.
- 6 Press OK to store the setting or ◀ to exit without storing.
- If necessary, repeat steps 3–6 for the other speaker type.
- 7 Press AUDIO MENU to exit the audio menu.

### Setting the distance of your listening position to the speakers

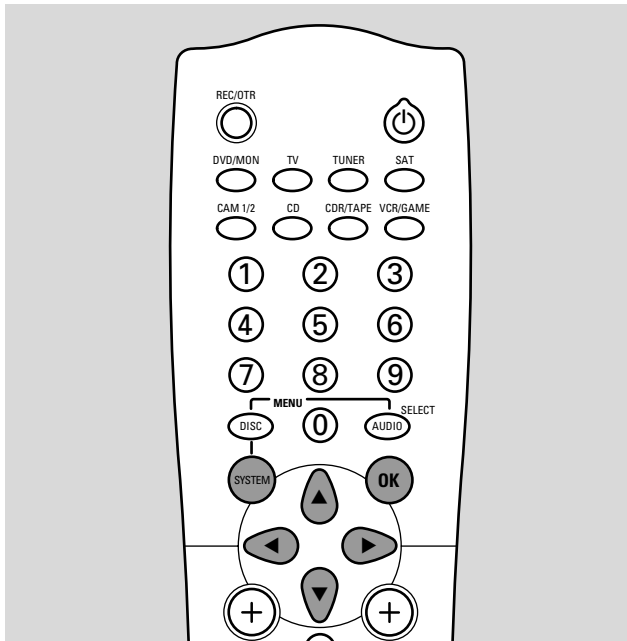
- 1 Press AUDIO MENU to enter the audio menu.
- 2 Press ▼ repeatedly to select *LS DIST*, then press ►.
- 3 Press ▼ repeatedly to select  
→ *DIST FRNT*: distance to the front speakers,  
→ *DIST CNTR*: distance to the centre speaker or  
→ *DIST REAR*: distance to the rear speakers.
- 4 Then press ►.



- 5 Press ▲ or ▼ repeatedly to set the distance of your listening position to the speakers (from 1 to 10 meters).
- 6 Press OK to store the setting or ◀ to exit without storing.
- To set the distance to another speaker type, repeat steps 3–6.
- 7 Press AUDIO MENU to exit the audio menu.

# System settings

## Searching TV channels



- 1 Switch your TV set on. If necessary set the TV to the correct audio/video channel for the DVD recorder system. Such channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1, EXT2 or EXTERNAL IN, etc. These channels are often near channel 00.
- 2 Press SYSTEM MENU.
- 3 Press ◀ repeatedly to select **T**.
- 4 Press ▼ repeatedly to select **Installation**, then press ▶.
- 5 Press ▼ repeatedly to select either  
→ **Autom. Search**: to search for TV channels automatically,  
→ **Manual search**: to add additional or missing TV channels manually.  
*Note: If your TV supports EasyLink, please add new TV channels on your TV first. Then select **Autom. Search** to transfer the changes to the DVD recorder system. Some of the menu options below will not be available with EasyLink.*
- 6 Press ▶ to enter the selected menu.

### Autom. Search

Select **Autom. Search** if new TV channels are available with your antenna or cable TV system. All previously stored TV channels will be overwritten.

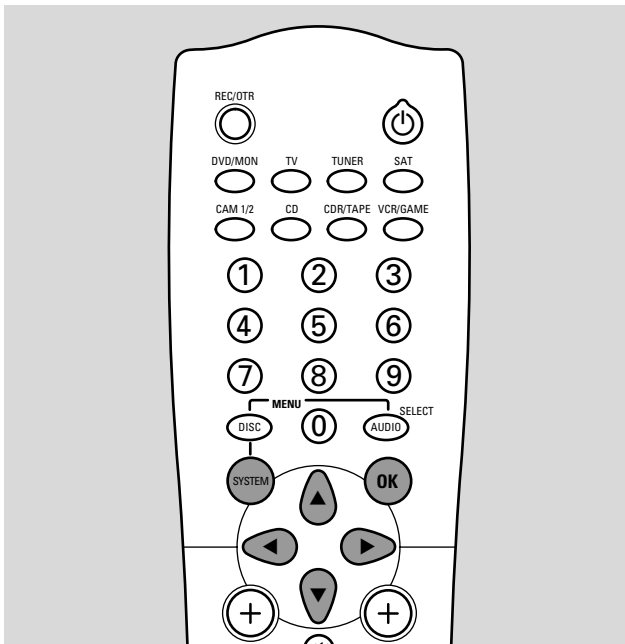
- 1 Press ▶ to start the automatic search.  
→ **Searching for TV channels and xx Channels found** appear, where **xx** indicates the number of TV channels found.
- 2 After the search is complete, press SYSTEM MENU to exit.  
*Note: If your TV supports EasyLink the TV channels will be stored in the same order as on your TV.*

### Manual search

If not all available TV channels have been found during the initial installation, you can search for the missing TV channels manually.

- 1 → **Channel/freq.** is highlighted.  
Press ▶ repeatedly to select  
→ **CH** or **S-CH** if you want to enter the channel number,  
→ **Freq.** if you want to enter the frequency of the TV channel.
- 2 Press ▼ to select **Entry/search**.
- 3 Press 0–9 repeatedly to enter the channel number or the frequency of the desired TV channel.  
○ If you do not know the channel number or frequency, press ▶ to start automatic search. Repeat this step until the desired TV channel is found.
- 4 Press ▼ to select **Programme number**.
- 5 Press 0–9 or ▲ or ▼ repeatedly to enter the programme number where to store the TV channel.  
*Note: If **Programme number already used** appears on the TV screen, select another programme number. Otherwise the TV channel with the same programme number will be deleted.*
- 6 Press OK to store the new TV channel or SYSTEM MENU to exit without storing the changes.
- 7 Press SYSTEM MENU to exit the system menu.

## Changing the order of TV channels and deleting TV channels



- 1 Switch your TV set on. If necessary set the TV to the correct audio/video channel for the DVD recorder system. Such channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1, EXT2 or EXTERNAL IN, etc. These channels are often near channel 00.
- 2 Press SYSTEM MENU.
- 3 Press ◀ repeatedly to select **TL**.
- 4 Press ▼ repeatedly to select **Installation**, then press ▶.
- 5 Press ▼ repeatedly to select either
  - **Follow TV** to make the order of TV channels on the DVD recorder system equal to the order on your TV or
  - **Sort TV channels** to move a TV channel to another programme number or to delete a TV channel.

*Note: If your TV supports EasyLink, please change the order of the TV channels on your TV. Then select **Autom. Search** to transfer the changes to the DVD recorder system automatically. Some of the menu options below will not be available with EasyLink.*

- 6 Press ▶ to enter the selected menu.

### Follow TV

- 1 Press OK to start **Follow TV**.  
→ **TV** **□** **!** is displayed on the DVD recorder system.
- 2 Select the same programme number on the TV, then press OK.  
→ **WAIT** is displayed on the DVD recorder system.  
The DVD recorder system searches for this TV channel in its memory and stores it under the same programme number.  
Then, **TV** **XX** is displayed on the DVD recorder system, where **XX** is the number of next TV programme.

#### Notes:

*If a TV channel cannot be found on the DVD recorder system, the corresponding programme number will not be used on the DVD recorder system.*

*If **NOTV** is displayed, make sure that the SCART cable is connected properly to the TV and the DVD recorder system. If necessary, connect the DVD recorder system to another SCART socket on the TV because the SCART socket in use might not support Follow TV. If the problem still persists, Follow TV is not available.*

- 3 Repeat step 2 for all programme numbers of the TV.
- 4 Press SYSTEM MENU to exit.

### Sort TV channels

- 1 Press ▲ or ▼ repeatedly to select a TV channel, then press ▶.
- 2 **If you want to move the TV channel to another programme number:**  
Press ▲ or ▼ repeatedly to move the TV channel to the desired programme number; then press ◀.

#### **If you want to delete the TV channel:**

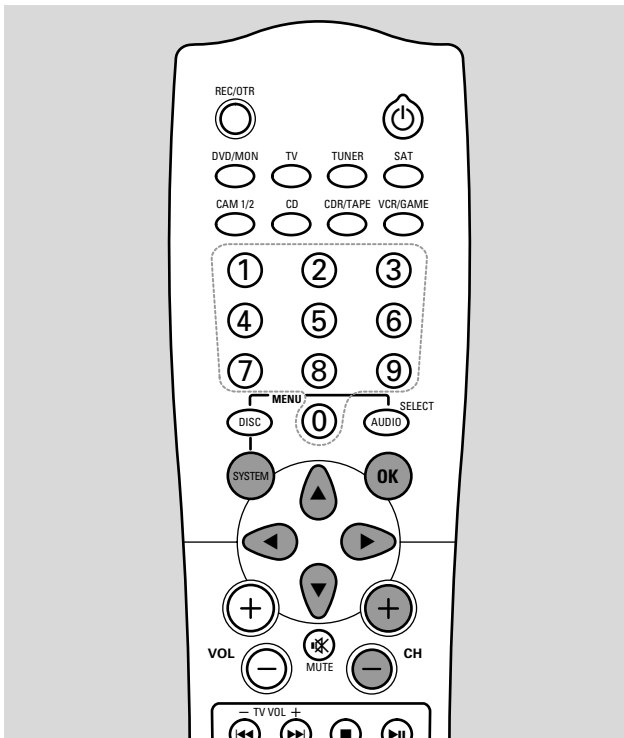
Press CLEAR, then press ◀.

*Note: When deleting a TV channel or when changing its programme number, other TV channels may change their programme number too.*

- To change the programme number of another TV channel or to delete another TV channel, repeat steps 1–2.
- 3 Press OK to store the settings or SYSTEM MENU to exit without storing.
- 4 Press SYSTEM MENU to exit the system menu.

# System settings

## Additional TV channel settings



- 1 Press CH+ or CH- or 0-9 repeatedly to select a TV channel on the DVD recorder system.
- 2 Press SYSTEM MENU.
- 3 Press ◀ repeatedly to select **T**.
- 4 Press ▼ repeatedly to select **Installation**, then press ▶.
- 5 Press ▼ repeatedly to select **Manual search**, then press ▶.
- 6 Press ▼ repeatedly to select either
  - **TV channel name**: to set the TV channel name,
  - **Decoder**: see "Using a connected decoder to decode a TV channel",
  - **TV system**: to change the TV system of the TV channel,
  - **NICAM**: to switch NICAM on/off,
  - **Fine tuning**: to change the tuning of the TV channel slightly.

### TV channel name

- 1 Press ▶ repeatedly to select a character of the TV channel name.
- 2 Press ▲ or ▼ repeatedly to set/change the desired character.
- 3 Repeat steps 1 and 2 for all characters of the channel name.  
*Note: Channel names are limited to 5 characters.*
- 4 Press OK to store the TV channel name.
- 5 Press SYSTEM MENU to exit.

### TV system

If the TV system of the TV channel and that of your TV are not the same, the sound and/or the picture may be distorted or missing. Usually the TV system is detected automatically.

- 1 Press ▶ repeatedly to select the TV system (**PAL-BG, PAL-I, PAL-DK, SECAM, SEC-BG, SEC-DK**) which produces the clearest sound and picture on your TV.  
*Note: If you change TV system to a setting not supported by your TV set, the picture and/or sound may be missing.*
- 2 Press OK to store the setting.
- 3 Press SYSTEM MENU to exit.

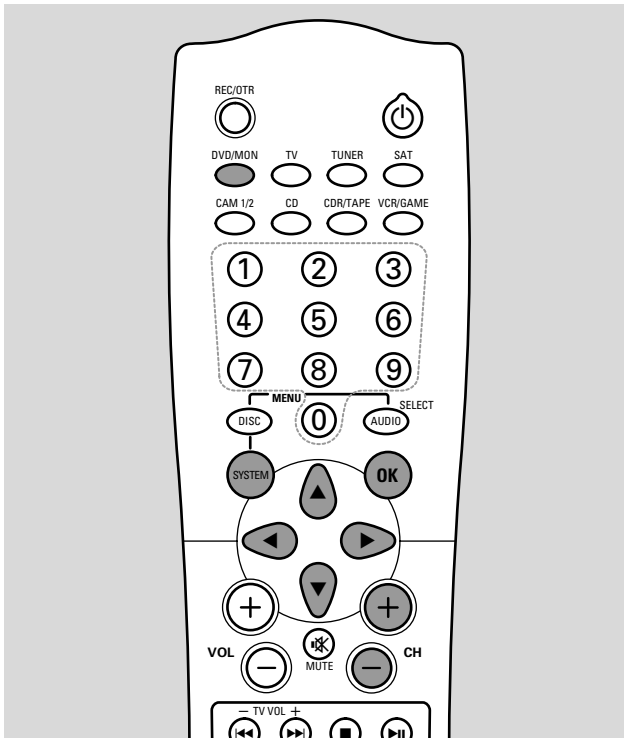
### NICAM

- 1 Press ▶ repeatedly to switch NICAM on or off:
  - **On**: Stereo and 2-channel sound is supported.
  - **Off**: To improve the sound quality of a weak TV channel, only mono sound is supported.
- 2 Press OK to store the setting.
- 3 Press SYSTEM MENU to exit.

### Fine tuning

- 1 If the reception of the TV channel is distorted, press ▲ or ▼ repeatedly to change the tuning of the TV channel slightly.
- 2 Press OK to store the setting.
- 3 Press SYSTEM MENU to exit.





## Setting the time and date

- 1 Switch your TV set on. If necessary set the TV to the correct audio/video channel for the DVD recorder system. Such channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1, EXT2 or EXTERNAL IN, etc. These channels are often near channel 00.
- 2 Press SYSTEM MENU.
- 3 Press ◀ repeatedly to select **T**.
- 4 Press ▼ repeatedly to select **Installation**, then press ▶.
- 5 Press ▼ repeatedly to select **Time/Date**, then press ▶.
- 6 Press ▼ repeatedly to select either **Time**, **Year**, **Month** or **Date**.
- 7 Press 0–9 or ◀ or ▶ repeatedly to set the correct value.
- 8 If necessary, repeat steps 6 and 7 until all settings of the time and date are correct.
- 9 Press OK to store the settings or SYSTEM MENU to exit without saving the changes.
- 10 Press SYSTEM MENU repeatedly to exit.

## Using a connected decoder to decode a TV channel

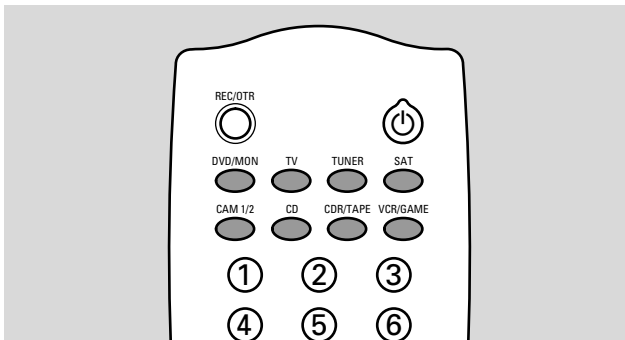
Some TV channels are encoded and can be watched without distortions only with a decoder. If you have connected a decoder, please set which TV channel should be decoded with the decoder.

If your TV supports EasyLink, please perform these settings on the TV. No settings can be performed on the DVD recorder system in this case.

- 1 Switch your TV set on. If necessary set the TV to the correct audio/video channel for the DVD recorder system. Such channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1, EXT2 or EXTERNAL IN, etc. These channels are often near channel 00.
- 2 Press DVD/MON.
- 3 Press CH+ or CH– or 0–9 repeatedly to select the TV channel which you want to decode with the decoder.
- 4 Press SYSTEM MENU.
- 5 Press ◀ repeatedly to select **T**.
- 6 Press ▼ repeatedly to select **Installation**, then press ▶.
- 7 Press ▼ repeatedly to select **Manual search**, then press ▶.
- 8 Press ▼ repeatedly to select **Decoder**.
- 9 Press ▶ repeatedly to select **On**.  
→ **DECODER** will appear on the display of the DVD recorder system whenever this TV channel is selected.
- To switch the decoder off for the selected TV channel, press ▶ to select **Off**.
- 10 Press OK to confirm.
- 11 Press SYSTEM MENU repeatedly to exit.
- If necessary, repeat steps 3–11 for other encoded TV channels.

# Source selection

## Selecting a source



1 Turn SOURCE on the DVD recorder system or keep a source key on the remote control pressed for 1 second to select either:

- DISC: the disc in the DVD recorder system
- MONITOR: the internal TV tuner of the DVD recorder system (only selectable by pressing DVD/MON on the remote control)
- TV: the TV
- CAM 1: a camcorder connected to CAM1
- CAM2: a camcorder connected to CAM2
- SAT: a connected satellite receiver
- VCR: a connected VCR (video recorder)
- GAME: a connected game console
- the radio tuner of the DVD recorder system
- TAPE: a connected tape deck or similar audio recording appliance
- CDR: a connected CD recorder
- CD: a connected CD player/changer

→ The sound of the source is played on the DVD recorder system.

To select CAM 2 (TAPE or GAME) with the remote control, first select CAM 1 (CDR or VCR). Then keep the corresponding source key pressed for 1 second.

2 If the selected video source does not show on your TV:

- switch off any other video appliances connected to EXT 2 AUX I/O and
- set your TV to the correct audio/video channel. Such channels may be called AUX, AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1, EXT2 or EXTERNAL IN, etc. These channels are often near channel 00.

- If you selected an S-video recorder connected to EXT 2 AUX I/O on the DVD recorder system, set the DVD recorder system to **S-Video** (see "User preferences", **Picture, SCART video**). Do not forget to switch the DVD recorder system back to **RGB** when selecting another source.

Notes:

Please select the TV channels of a satellite receiver directly on the satellite receiver.

You can select only sources which are installed on the DVD recorder system. If you connected an appliance or if you changed its connection after the initial installation, you need to install the appliance on the DVD recorder system. See "When adding appliances or changing the connections of appliances".

### Selecting another source while recording

While recording from a source, you can select another source on the DVD recorder system. Please be aware that not all sources will be available.

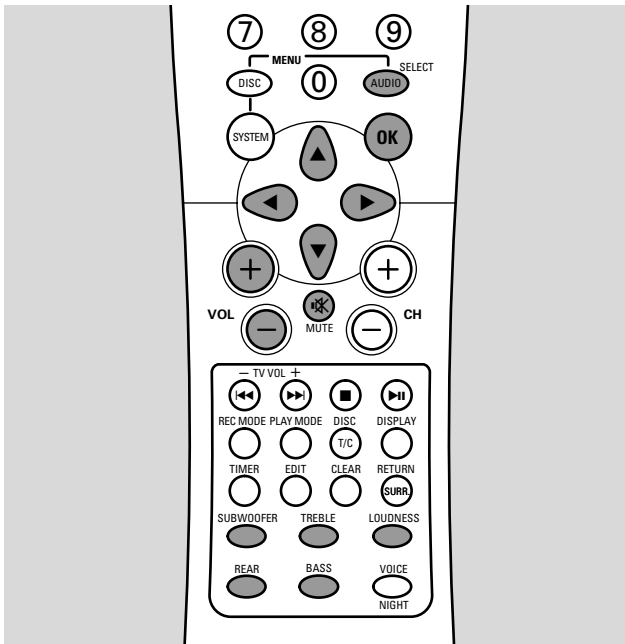
### Switching between recorded and original video and sound quality

While recording from an appliance connected to EXT 2 AUX I/O, you can choose between viewing the original and the recorded video and sound quality.



- Select the source which you are currently recording to switch to the original video and sound quality.
- To switch to the recorded video and sound quality, press DVD/MON.

Please keep in mind that

- no messages from the DVD recorder system are available on the TV screen while viewing the original video quality,
- the recorded sound is stereo only,
- there is a delay between the original and the recorded video/sound.



## Adjusting the volume of all speakers

- Press VOL+ or VOL- or turn VOLUME on the DVD recorder system to adjust the volume.  
→ VOLUME and the actual volume level are displayed.
- To switch off the sound of the DVD recorder system, press MUTE .
- To switch the sound on again, press MUTE  again.

## Adjusting the volume of the rear speakers and the subwoofer

- 1 Press REAR or SUBWOOFER.  
→ REAR or SUBWOOFER and the actual level are displayed.
- 2 Press VOL+ or VOL- or turn VOLUME on the DVD recorder system to adjust the volume of the rear speakers or the subwoofer.

## Adjusting bass and treble

- 1 Briefly press BASS or TREBLE.  
→ BASS or TREBLE and the actual level are displayed.
- 2 Press VOL+ or VOL- or turn VOLUME on the DVD recorder system to adjust the bass or treble.

*Note: If VOLUME is not turned within 5 seconds, or if any other key is pressed, adjustment of rear and subwoofer volume and that of bass and treble is switched off.*

## Loudness

Loudness enhances bass and treble at low volume.

- Press LOUDNESS repeatedly to switch loudness either on or off.  
→ LOUDNESS ON or OFF is displayed on the DVD recorder system.

## Setting the volume balance between the speakers

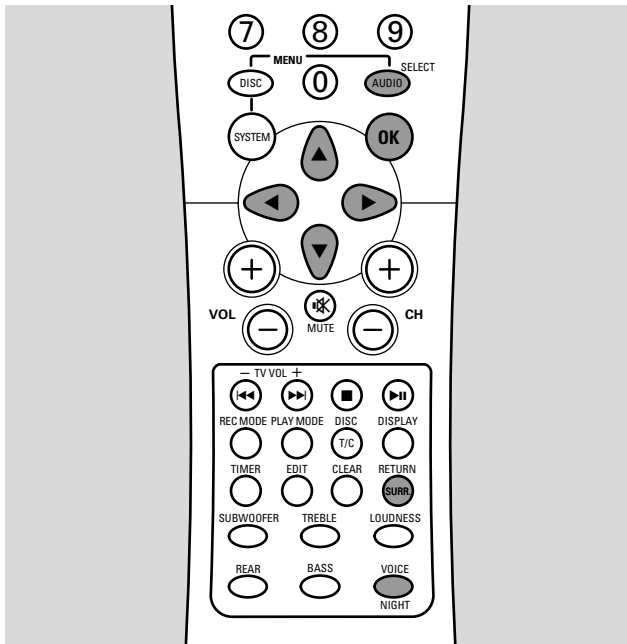
If a speaker appears too loud or too quiet in comparison to the rest of the speakers, you can adjust the volume balance between the speakers.

- 1 Press AUDIO MENU to enter the audio menu.
- 2 Press ▼ repeatedly to select BALANCE, then press ►.
- 3 Press ► to enter TEST TONE.
- 4 Press ▼ repeatedly to select ON, then press OK.  
→ The test tone is played on each speaker for a short time.

*Note: The test tone is not available for adjusting the subwoofer volume.*

- 5 Press ▼ repeatedly to select the speaker which appears too quiet or too loud:
  - FRONT -L: the left front speaker;
  - FRONT -R: the right front speaker;
  - CENTER: the centre speaker;
  - REAR -L: the left rear speaker;
  - REAR -R: the right rear speaker;
  - SUBWOOFER: the subwoofer.
- 6 Then, press ►.
- 7 Press ▲ or ▼ repeatedly to adjust the volume of the selected speaker (values between -5 and +5).
- 8 Press OK to store the setting or ◀ to exit without storing.
- To adjust the volume of another speaker; repeat steps 5–8.
- 9 Press AUDIO MENU to exit.

# Surround sound



The DVD recorder system automatically detects if a surround sound is available and displays the type of signal:

- **DD D**: Dolby Digital,
- **DTS**: DTS Digital Surround,
- **DD PL**: Dolby Pro Logic,
- **MPEG**: MPEG multichannel.

Please keep in mind that not all DVD discs provide multichannel surround sound. Some DVDs contain stereo sound only.

If a connected appliance offers digital surround sound (Dolby Digital, DTS or MPEG) you need to connect the digital output of the appliance to the DVD recorder system to appreciate the digital surround sound (see "Connecting additional video appliances" or "Connecting additional audio appliances").

Please keep in mind that recording from a digital input (DIGITAL IN and OPTICAL IN) is not possible. Therefore, recording of digital surround sound is not possible.

Recording is possible only from the inputs EXT 1, EXT 2, CAM 1 and CAM 2 and is in stereo.

## Selecting a surround effect

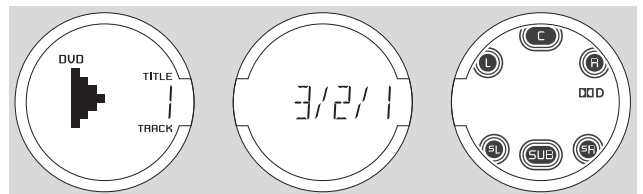
The available surround effects depend on the signal (stereo or surround signal) and the number of connected speakers.

- Press SURR. repeatedly to select either:
  - **SURROUND**: For Dolby Digital, DTS Digital Surround, Dolby Pro Logic or MPEG multichannel signals.
  - **STEREO**: For standard stereo reproduction. All surround effects are switched off. Sound is reproduced through the front left and right speakers and the subwoofers.
  - **FRONT/3 STEREO**: The front speakers (left, centre, right and subwoofers) are in use only, the surround signal for the rear speakers is muted.
  - **3D SURROUND**: 3D-Surround simulates surround sound effects with the front speakers only.
  - **HALL**: A slight hall effect is added and reproduced through the rear speakers.
  - **NATURAL SURROUND**: Natural Surround widens the sound picture of the front and the rear speakers. The sound appears more spacious.

*Note: For surround signals, additional information about the signal is scrolled on the display of the DVD recorder system.*

*For example:*

- 3/2/1: Dolby Digital signal with 3 front, 2 surround (rear) and 1 subwoofer channels.
- MPEG 2/0/0: MPEG multichannel signal with 2 channels (stereo) only.



## Adjusting 3D Surround and Natural Surround

- 1 Press AUDIO MENU to enter the audio menu.  
→ *EFFECTS* is displayed on the DVD recorder system.
- 2 Press ►.
- 3 Press ▼ repeatedly to select either *3D SURR* or *NATURAL*, then press ►.
- 4 Press ▲ or ▼ repeatedly to set the surround effect of *3D SURR* or *NATURAL* between 0 (no effect) and 100 (maximum effect).
- 5 Press OK to store the setting or ◀ to exit without storing.
- 6 Press AUDIO MENU to exit the audio menu.

## Clear Voice

ClearVoice enhances the voices in surround sound signals to make dialogues easier to follow. ClearVoice is available for surround sounds only.

- Press VOICE briefly to switch ClearVoice on or off.  
→ *CLR VOICE ON* or *OFF* is displayed on the DVD recorder system.

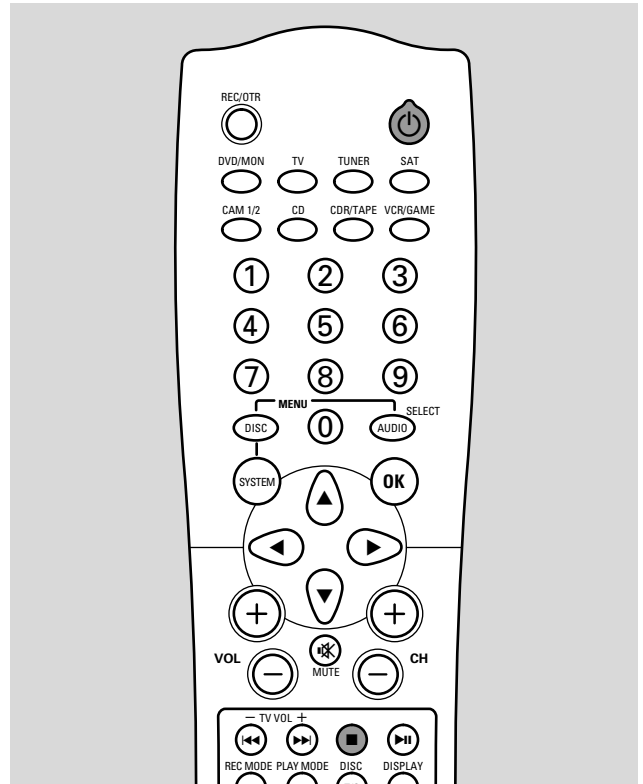
## Night mode

Night mode reduces the volume differences between loud and quiet passages. At night, you can enjoy surround effects at low volume without disturbing your children or neighbours. Night mode is available only for Dolby Digital and MPEG multichannel signals and only if supported by the source material (e. g. a movie).

- Keep NIGHT pressed for 2 seconds to switch Night mode on or off.  
→ *NIGHT ON* or *OFF* is displayed on the DVD recorder system.

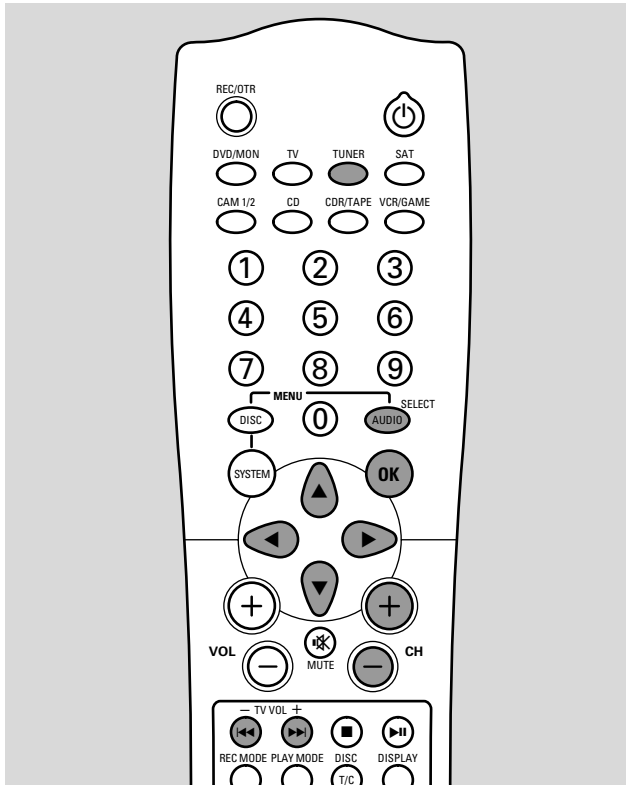
## Demo mode

The demo mode demonstrates various features of the DVD recorder system and will start automatically. If your DVD recorder system has a demo mode, you may wish to deactivate it.



- 1 If necessary, press to switch the DVD recorder system to standby.
- 2 Keep STOP pressed for at least 5 seconds to cancel the demo mode.  
→ *DEMO OFF* is displayed. The demo mode is deactivated permanently. The DVD recorder system is switched to standby.

# Radio tuner



## Selecting a preset radio station

- 1 Press TUNER to select the radio tuner.
- 2 Press CH+ or CH- repeatedly to skip to a preset radio station or use 0-9 to enter the number of a preset radio station. To enter a preset number with two digits, press 0-9 twice within 2 seconds.  
→ Ψ, the waveband, the station (station name or frequency) and the preset number are displayed. If the radio signal is stereo, ∞ will appear.

## Tuning to a radio station

- 1 Press TUNER to select the radio tuner.  
→ Ψ, the waveband and the station (station name or frequency) are displayed.
- 2 To change the waveband, press TUNER repeatedly.
- 3 Keep I◀◀ or ▶▶I pressed for about 1 second.
- 4 Release I◀◀ or ▶▶I at the frequency where to start searching.  
→ SEARCH is displayed and the DVD recorder system searches for a radio station with sufficient signal strength.
  - To stop searching, press I◀◀ or ▶▶I again.
- 5 Repeat steps 3-4 until you find the desired radio station.
  - To tune to a weak radio station, briefly press I◀◀ or ▶▶I as often as necessary for optimum reception.

## Storing radio stations

You can store up to 40 preset radio stations in the memory of the DVD recorder system.

### Automatic searching and storing

The DVD recorder system searches radio stations with sufficient strength automatically and stores them in the memory.

- 1 If necessary, press TUNER to select the radio tuner.
- 2 Press AUDIO MENU to enter the audio menu.
- 3 Press ▼ repeatedly to select TUNER, then press ▶.  
→ AUTO INST is displayed.
- 4 Press ▶.  
→ The preset number, the waveband and frequency of the current radio station appear.
- 5 Press CH+ or CH- to select the preset number from which onwards the found radio stations will be stored.

*Note: Already existing radio stations with this or higher preset numbers will be deleted.*

- To change the waveband, press TUNER.
- 6 Then press OK.  
→ The automatic search starts. Radio stations with sufficient signal strength will be stored. If a radio station is already stored in a lower preset it will not be stored again.
- 7 Press AUDIO MENU to exit the audio menu.

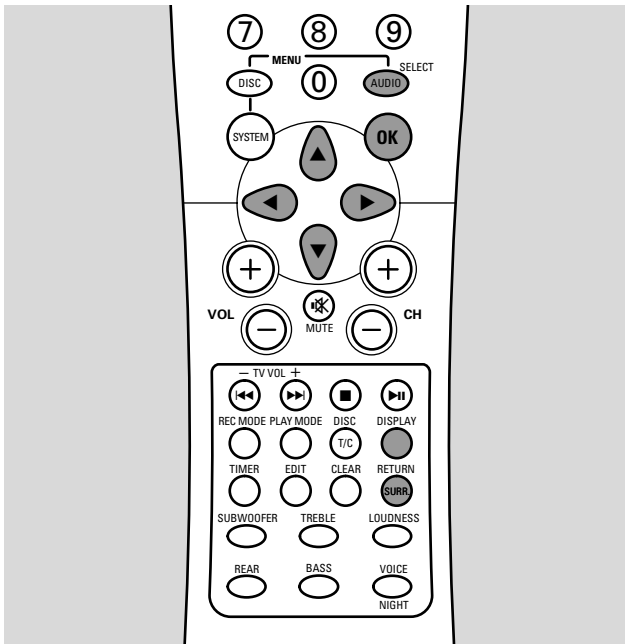
### Manual searching and storing

- 1 Press AUDIO MENU to enter the audio menu.
- 2 Press ▼ repeatedly to select TUNER, then press ▶.
- 3 Press ▼ repeatedly to select MAN INST.
- 4 Press ▶.  
→ The preset number, the waveband and frequency of the current radio station appear.
- 5 Tune to the desired radio station (see steps 2-5 of "Tuning to a radio station").

- 6 Press CH+ or CH- to change the preset number where to store the found radio station.

*Note: A radio station with the same preset number will be deleted.*

- 7 Press OK to store the radio station.  
→ STORED is displayed.
  - To store additional radio stations, continue with step 5.
- 8 Press AUDIO MENU to exit the audio menu.



## Switching between mono and stereo radio reception

If you are listening to an FM radio station with a weak signal, you may wish to switch from stereo to mono for better sound quality.

- While TUNER is selected, press TUNER repeatedly to select *FM MONO*.  
→ ∞ disappears from the display of the DVD recorder system.
- To switch back to stereo reception, press TUNER repeatedly to select *FM STEREO*.

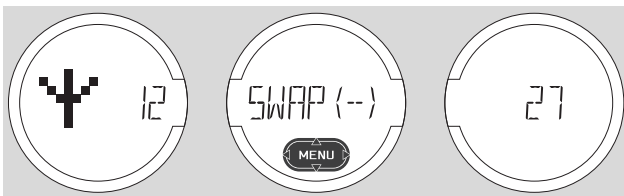
## RDS – Radio Data System

Some FM radio stations broadcast additional information.

- Press DISPLAY repeatedly to select the following RDS information, if available:
  - station name
  - frequency
  - radio text messages

## Changing the order of stored radio stations

- 1 Press AUDIO MENU to enter the audio menu.
- 2 Press ▼ repeatedly to select *TUNER*, then press ►.
- 3 Press ▼ repeatedly to select *RESHUFFLE*, then press ►.  
→ The number of a preset radio station blinks.
- 4 Press CH+ or CH– repeatedly or use 0–9 to select the radio station of which you want to change the preset number. Then press OK.  
→ *SWAP (-)* is displayed, where *x* denotes the new and *y* the current preset number.

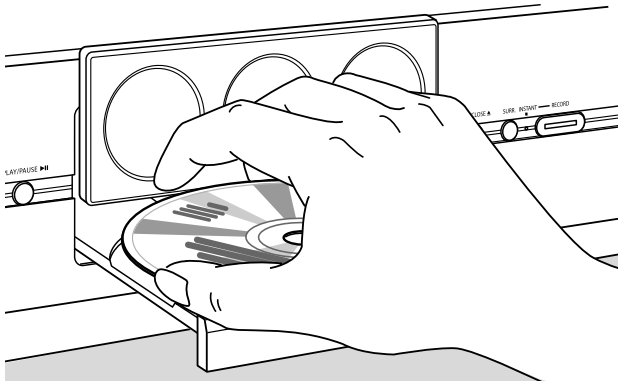


- 5 Press CH+ or CH– repeatedly or use 0–9 to set the new preset number; then press OK.  
→ *RESHUFFLE* is displayed briefly, the radio stations with the preset numbers *x* and *y* swap their preset numbers.
- To change additional preset numbers continue with step 4.
- 6 Press AUDIO MENU to exit the menu.



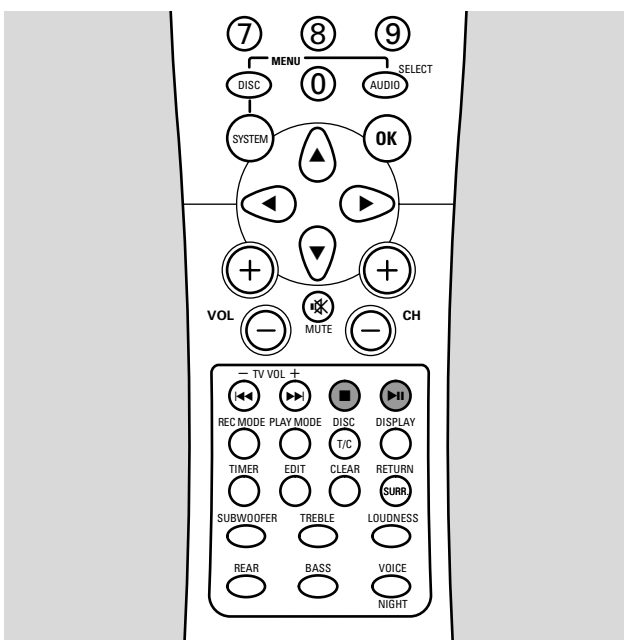
# Playback

## Loading discs



- 1 Press OPEN/CLOSE ▲ on the set to open the drawer:  
→ OPENING is displayed, the display moves up and the drawer is opened.  
→ TRAY OPEN is displayed.
- 2 Insert a disc (printed side up) in the tray.  
*Note: The labels of DVD-Video discs which are recorded on both sides are placed in the middle of the disc. Make sure the label of the side you want to play is facing up.*
- 3 Press OPEN/CLOSE ▲ on the set again or press PLAY/PAUSE ►|| on the remote control.  
→ CLOSING is displayed, the drawer is closed and the display moves down.  
→ READING is displayed.  
→ Depending on the type of disc you inserted, playback starts either automatically and the title number; the chapter number and the actual elapsed playing time are displayed or you have to press different buttons first (see following chapters about playback for detailed information).

## Playing a DVD-Video disc



- 1 Switch your TV set on. If necessary set the TV to the correct audio/video channel for the DVD recorder system. Such channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1, EXT2 or EXTERNAL IN, etc.. These channels are often near channel 00.
- 2 Load a DVD-Video disc in the tray.
- 3 If playback does not start automatically, press PLAY/PAUSE ►|| to start playback.  
→ Playback starts, the title number, the chapter number and the actual elapsed playing time are displayed.

### Notes:

If the child lock was activated for the inserted disc, PIN will be displayed (see "Activating and deactivating the child lock").  
If a menu appears use ▼, ▲, ◀ or ▶ or press the appropriate numerical key on the remote control to select a menu option. Press OK to confirm.

- 4 Press STOP ■ to stop playback.  
→ The total number of titles and the total playing time are displayed.
- To interrupt playback press PLAY/PAUSE ►|| again.  
→ The current title number, the current chapter number and the time where playback was interrupted are displayed.
  - To resume playback press PLAY/PAUSE ►|| again.

*Note: Some DVD discs are manufactured in such a way that either a specific operation is required or specific functions only are possible during playback. When X appears on the TV screen, the selected function is not available.*

### Region code information

As DVD movies are usually not released at the same time in all regions of the world, all DVD players are keyed to a specific region code and discs can have an optional region code. If the region code of the loaded disc is different to the region code of this DVD recorder system playback will not be possible.

The region code of this DVD recorder system (region code 2) is stated on a label on the back of the set.

Regional coding is not applicable for recordable DVD discs.

### Disc menu

The disc menu offers you additional information contained on the DVD disc.

- 1 Press DISC MENU on the remote control during playback.  
→ The menu appears on the screen (on some DVD discs the menu may appear after a short introduction sequence).
- 2 Use ▼, ▲, ◀ or ▶ on the remote control to select the desired information or press the appropriate numerical key on the remote control.
- 3 Press OK on the remote control to confirm.

## Playing a (Super) Video CD

- 1 Load a (Super) Video CD in the tray.
- 2 Press PLAY/PAUSE ►|| .  
→ Playback starts.

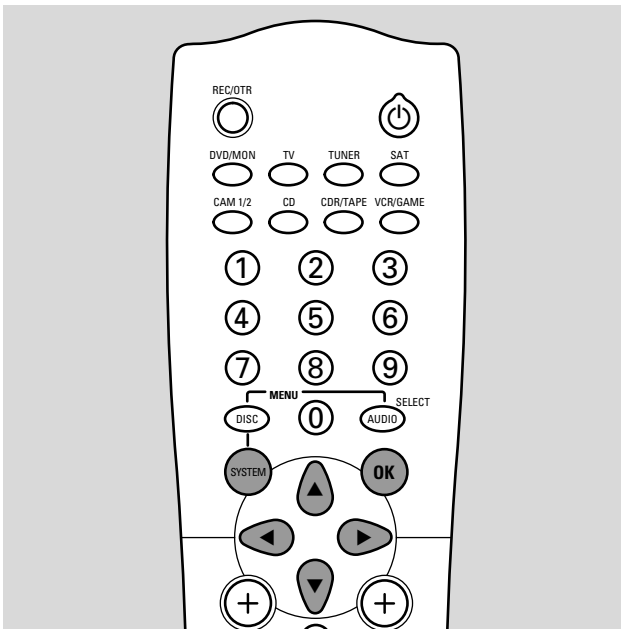
### PBC (Playback Control)

Some (Super) Video CDs may be equipped with the special function PBC, which provides additional features. Check the disc case for details. PBC appears in the menu only if a PBC-compatible (Super) Video CD is inserted.

- 1 Load a (Super) Video CD that contains PBC in the tray.
  - 2 Press PLAY/PAUSE ►|| .  
→ A menu appears on the screen,  
or  
→ ■ appears on the screen. In this case press  
PLAY/PAUSE ►|| again to call the menu.
  - 3 The (Super) Video CD will show instructions or options on the TV screen. Use the corresponding remote control buttons as indicated on the TV screen to select the desired menu option, e.g. for PREV use ◀◀, for NEXT use ▶▶ on the remote control.
- To return to the previous menu option press RETURN on the remote control (2 seconds).

### What to do if PBC is deactivated?

It is possible that the (Super) Video CD contains PBC, however, it is deactivated and PBC OFF is shown. In this case you have to activate PBC.



- 1 Make sure a (Super) Video CD that contains PBC is loaded in the tray.
- 2 Press SYSTEM MENU on the remote control.
- 3 Press ◀ or ▶ on the remote control as often as necessary until T is selected.

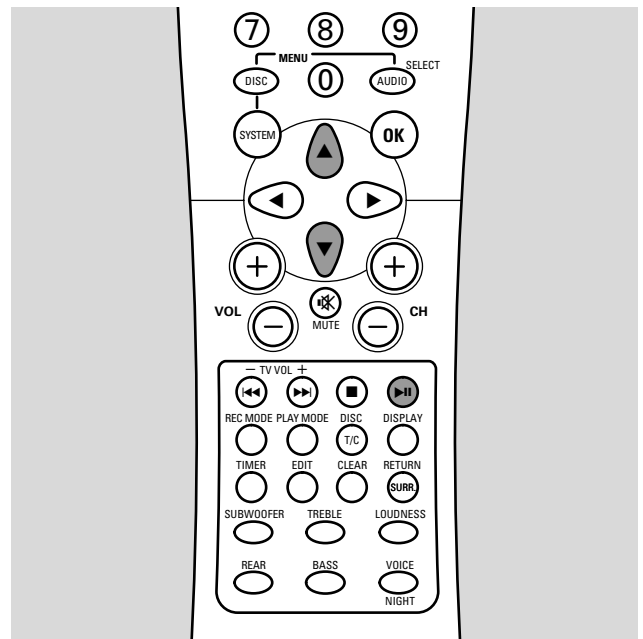
- 4 Press ▼ or ▲ on the remote control as often as necessary until Features is selected.
  - 5 Press ► on the remote control to confirm the selection.
  - 6 Press ▼ or ▲ on the remote control as often as necessary to select the line PBC.
  - 7 Press ► on the remote control to confirm.
  - 8 Press ▼ or ▲ on the remote control as often as necessary until On is selected.
  - 9 Press OK on the remote control to confirm the selection.  
→ PBC is activated.
- To switch off the system menu bar press SYSTEM MENU on the remote control.

## Playing a DVD+R or DVD+RW disc

### Playing a write protected DVD+R or DVD+RW disc

- Load the disc in the tray.  
→ Playback starts automatically.

### Playing a DVD+R or DVD+RW disc that is not write protected



- 1 Load the disc in the tray.  
→ The index picture screen appears.
- 2 Use ▼, ▲ on the remote control to select the desired title.
- 3 Press PLAY/PAUSE ►|| to start playback.  
→ The title number, the recording quality and the title name (if available) are displayed.

Note: If you insert a blank disc, EMPTY DISC is displayed.

# Playback

## Playing an audio CD

- 1 Load an audio CD in the tray.
  - Playback starts automatically.
  - If the TV set is switched on, the audio CD screen appears.
  - The current track number and its elapsed playing time are displayed.
- 2 Press STOP ■ to stop playback.
  - The total number of tracks and the total playing time are displayed.

## Some words about MP3

The music compression technology MP3 (MPEG I Audio Layer-3) allows you to record up to 10 hours of CD-like quality music on a single CDR(W).

### Making your own MP3-CD

You can either transfer music from your own digital audio CDs via CD-ROM drive onto your PC and encode it into MP3 format ("rip") or download legal MP3 music from the Internet. Record ("burn") the music from your hard disc on CDR(W) with your home PC (**make sure filename ends with .mp3**). Once finished, you can play your MP3-CD on this DVD recorder system.

### Data rate

The data rate is of great importance with MP3. It indicates how fast bits are transferred. **To achieve a good MP3 quality a bit rate of 128 kbps is recommended.**

### Recording an MP3-CD

Make sure to use a recording speed not faster than indicated on the CDR(W) and avoid running other programmes simultaneously on your PC during the recording process.

***It is not possible to "burn" an MP3-CD on this DVD recorder system.***

***Only the first session of a multi-session-CD will be played.***

### Supported formats

Following formats are supported on this set:

- **Disc format:** ISO 9660 or Joliet
- **File format:** MPEG I Audio Layer-3
- **Filename:** maximum 12 ASCII characters (Joliet) are shown in the On Screen Display, make sure filename ends with .mp3
- **Sampling frequencies:** 44.1 kHz, 48 kHz. Files with other frequencies will be skipped.
- **Bit rate:** 56–320 kbps
- **ID3-tag:** version 1.0, 1.1. If the version is higher, the directory name is used as album name and the filename as track name.
- **Maximum of 99 albums, 999 tracks**

## Playing an MP3-CD

- 1 Load an MP3-CD in the tray.
  - Playback starts automatically.
  - If the TV set is switched on, the MP3-CD screen appears.
  - The current track number and its elapsed playing time are displayed.

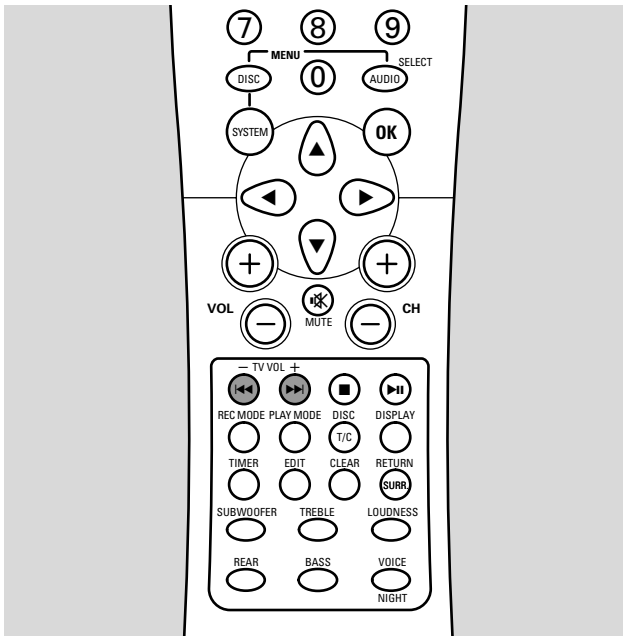
*If you created an ID3-tag for your MP3-track, following ID3-tag information will be shown during playback:*

- **Album title**
- **Track title**
- **Track artist's name**

- 2 Press STOP ■ to stop playback.
  - The total number of albums is displayed.

## Selecting a title/chapter

If a disc contains more than one title or chapter; you can select them during playback. However, if a title contains several chapters, selecting is only possible within these chapters. Another title has to be selected then directly via the menu bar:



- Press ►► once on the remote control during playback to skip to the beginning of the next title/chapter:  
→ Playback continues with the next title/chapter.
- Press ◀◀ once on the remote control during playback to skip to the beginning of the current title/chapter:  
→ Playback continues from the beginning of the current title/chapter.
- Press ◀◀ twice on the remote control during playback to skip to the beginning of the previous title/chapter:  
→ Playback continues with the previous title/chapter.

### Selecting a title directly

- 1 Press T/C on the remote control.  
→ The system menu bar appears and T is selected.
- 2 Press ▼ or ▲ on the remote control as often as necessary until the desired title number is selected.

### Selecting a chapter directly

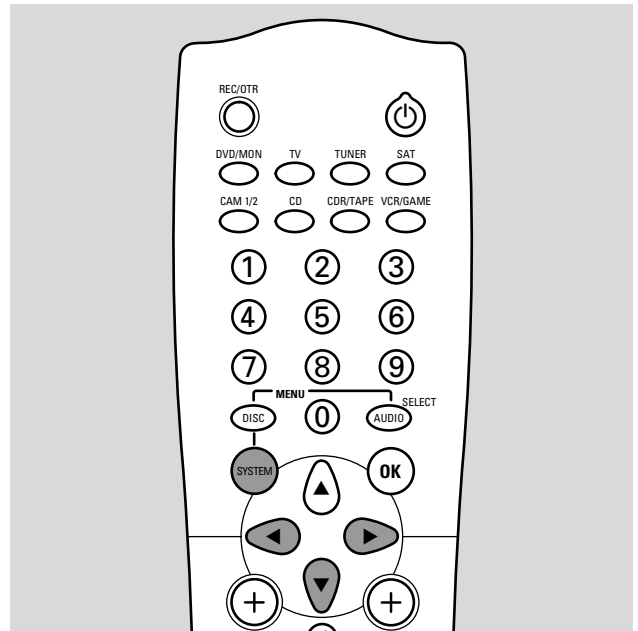
- 1 Press T/C on the remote control.  
→ The system menu bar appears.
- 2 Press ► on the remote control as often as necessary until C is selected.
- 3 Press ▼ or ▲ on the remote control as often as necessary until the desired chapter number is selected.

## Searching

You can search in forwards or backwards direction with different speeds.

- 1 Keep ◀◀ or ►► pressed on the remote control during playback to find a particular passage in backwards or forwards direction.  
→ Searching is started with volume muted.
- To switch to another speed press ◀◀ or ►► again on the remote control.
- 2 Press ►► on the remote control at the desired passage.  
→ Searching stops and playback is paused.
- 3 Press ►► again on the remote control to resume playback.  
→ Normal playback continues.

### Searching via the menu bar



- 1 Press SYSTEM MENU on the remote control during playback to enter the system menu.  
→ The system menu bar appears.
- 2 Press ◀ or ► on the remote control as often as necessary until ►► is selected.
- 3 Press ▼ on the remote control to confirm the selection.  
→ A bar with different searching speeds in backwards or forwards direction appears.
- 4 Press ◀ or ► on the remote control as often as necessary to select the desired searching speed.  
→ Searching is started with volume muted.
- To resume normal playback press ►► twice on the remote control.  
→ Normal playback continues.
- To switch off the system menu bar press SYSTEM MENU on the remote control.

# Playback features

## 🕒 Searching by keying in a time

This function allows you to choose a specific position of the playing time where playback is started.


- 1 Press SYSTEM MENU on the remote control during playback to enter the system menu.  
→ The system menu bar appears.
- 2 Press ◀ or ▶ on the remote control as often as necessary until ⌚ is selected.
- 3 Press ▼ on the remote control to confirm the selection.  
→ Playback is paused.  
→ A time entry box appears in which the elapsed playing time of the current disc is displayed.
- 4 Use the numerical keys on the remote control to key in the desired hour, minutes and seconds of the playing time where playback should start.

*Note: If the selected title is shorter than the keyed in time position, the digits start blinking. Key in a new time position.*

- 5 Press OK on the remote control to confirm your selection.  
→ Playback is paused.  
→ The time entry box disappears and playback starts from the selected time position.
- To switch off the system menu bar press SYSTEM MENU on the remote control.





## Scan

This function allows you to play the first 10 seconds of each chapter (DVD-Video discs) or track (CD) of the disc.

- Press PLAY MODE on the remote control as often as necessary during playback until  is selected.  
→ The first 10 seconds of each chapter/track are played.
- To end scanning and to resume normal playback press STOP ■ and then PLAY/PAUSE ▶▶.

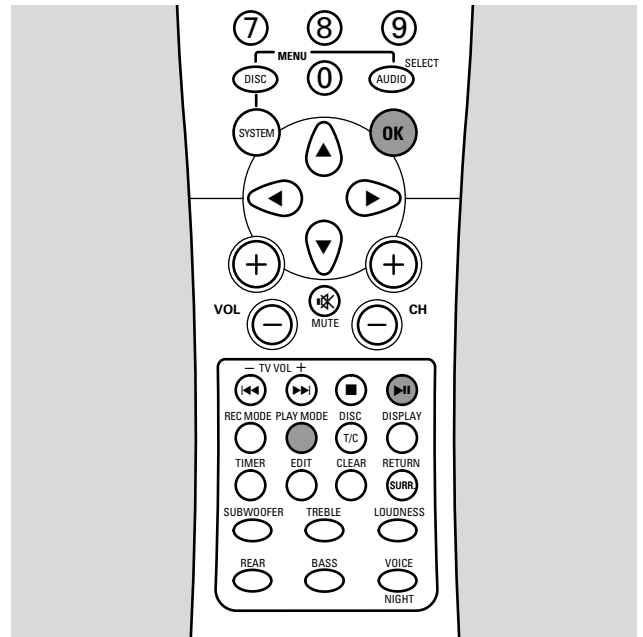
## Repeat and playback in random order



Depending on the disc type, you can select different types of playback.

- 1 Select the desired chapter, title or disc and start playback.
- 2 Press PLAY MODE repeatedly on the remote control during playback to select either (if available):
  - : The current chapter is played repeatedly (on DVD-Video discs only).
  - : The current title is played repeatedly (on DVD-Video discs only).
  - : The entire disc is played repeatedly (on Super Video CDs, audio CDs and MP3 CDs only).
  - : playback in random order (on audio CDs and MP3 CDs only)
- To return to normal playback press STOP ■ and then PLAY/PAUSE ▶▶.

## Repeating a specific sequence (not on MP3-CDs)

You can mark a specific sequence within a title/chapter for repeating.

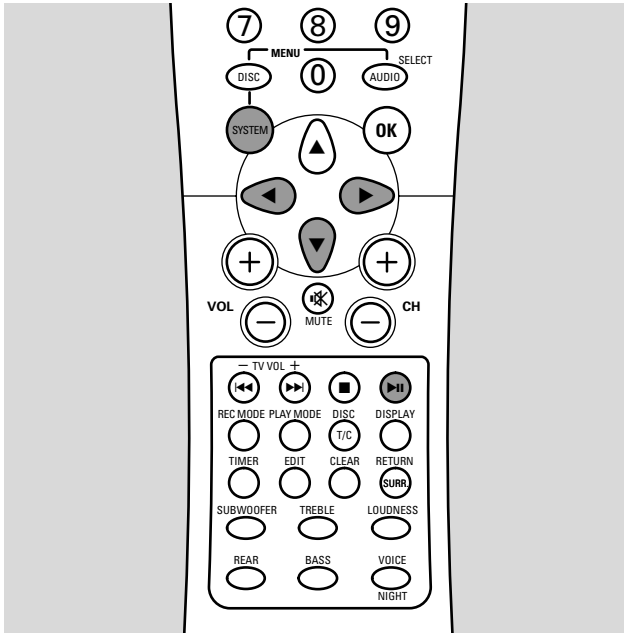


- 1 Press ▶▶ on the remote control during playback to mark the starting point of the sequence.  
→ The still picture shown is the selected starting point.
- 2 Press PLAY MODE repeatedly on the remote control until  is shown.  
→ The selected starting point is confirmed.
- 3 Press ▶▶ on the remote control.  
→ Playback continues.
- 4 As soon as the desired end point of the sequence is played, press OK on the remote control.  
→  is shown and the end point is confirmed.  
→ The entire selected sequence is played repeatedly.
- To return to normal playback press STOP ■ and then PLAY/PAUSE ▶▶.

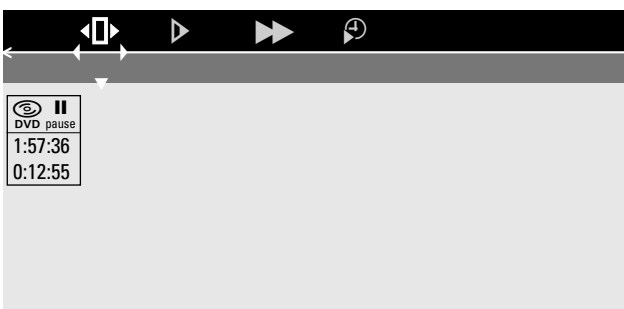
## Still picture

- Press PLAY/PAUSE ►|| during playback to pause playback.  
→ The still picture is shown.
- To resume playback press PLAY/PAUSE ►|| again.

## ◀▶ Frame by frame playback



- 1 Press PLAY/PAUSE ►|| during playback to pause playback.  
→ The still picture is shown.
- 2 Press SYSTEM MENU on the remote control to enter the system menu.  
→ The system menu bar appears.
- 3 Press ◀ or ▶ on the remote control as often as necessary until ◀▶ is selected.



- 4 Press ▼ on the remote control to confirm the selection.  
→ ◀▶ is shown.
  - 5 Use ◀ or ▶ on the remote control to select the previous or next picture.
- To exit the menu press ▲ on the remote control.
  - To switch off the system menu bar press SYSTEM MENU on the remote control.
  - To resume playback press PLAY/PAUSE ►||.

## Slow motion

- 1 Press PLAY/PAUSE ►|| during playback to pause playback.  
→ The still picture is shown.
  - 2 Keep ◀◀ or ▶▶ pressed on the remote control during playback to switch to slow motion in backwards or forwards direction.  
→ Playback is started in slow motion.
- To resume normal playback press ►|| twice on the remote control.  
→ Normal playback continues.
  - To switch to another speed press ◀◀ or ▶▶ again on the remote control.

### Slow motion via the menu bar

- 1 Press PLAY/PAUSE ►|| during playback to pause playback.  
→ The still picture is shown.
- 2 Press SYSTEM MENU on the remote control to enter the system menu.  
→ The system menu bar appears.
- 3 Press ◀ or ▶ on the remote control as often as necessary until ▶ is selected.



- 4 Press ▼ on the remote control to confirm the selection.  
→ A bar with different slow motion speeds in backwards or forwards direction appears.
  - 5 Use ◀ or ▶ on the remote control to select the desired slow motion speed.  
→ Playback is started in slow motion.
- To exit the slow motion menu press ▲ on the remote control.
  - To switch off the system menu bar press SYSTEM MENU on the remote control.
  - To resume playback press PLAY/PAUSE ►|| twice.

# Playback features

## Zoom

This function allows you to enlarge the video picture and to pan through the enlarged picture.

- 1 Press **▶||** on the remote control during playback.  
→ The still picture is shown.
- 2 Press SYSTEM MENU on the remote control during playback to enter the system menu.  
→ The system menu bar appears.
- 3 Press **◀** or **▶** on the remote control as often as necessary until **🔍** is selected.



- 4 Press **▼** or **▲** on the remote control as often as necessary to activate the zoom and to select the desired zoom factor.  
→ Zooming starts.  
→ As soon as zooming is finished, **press OK to pan** is displayed.
  - 5 Press OK on the remote control to confirm the selection.  
→ The panning icons **▼,▲,◀** and **▶** appear on the screen.
  - 6 Use **▼,▲,◀** or **▶** on the remote control to pan all over the screen.
- To see the zoomed picture without the system menu bar press OK on the remote control.
  - To exit the zoom mode and to resume playback press PLAY/PAUSE **▶||**.
  - To switch off the system menu bar press SYSTEM MENU on the remote control.

## Camera angle

Some DVDs contain scenes recorded from different camera angles. In this case you can select among the different angles.

- 1 Press **▶||** on the remote control during playback.  
→ The still picture is shown.
- 2 Press SYSTEM MENU on the remote control to enter the system menu.  
→ The system menu bar appears.
- 3 Press **◀** or **▶** on the remote control as often as necessary until **📷** is selected.



*Note: If **📷** is not selectable, the current scene was recorded from one camera angle only.*

- 4 Press **▼** or **▲** on the remote control to select the desired camera angle or use the numerical keys on the remote control to key in the desired angle number directly.  
→ After a few seconds, playback continues with the selected angle. **📷** remains shown until a scene starts that was recorded from one camera angle only.
- To switch among the different angles press **▼** or **▲** on the remote control.



## ⏮ Changing the audio language

DVD-Video discs are often recorded in different languages. This means, you can watch the same movie in e.g. French, Spanish, etc.. You can change the language via the system menu. However, depending on the type of DVD-Video disc the change you made may not be effective. If this happens change the language via the disc menu (see "Disc menu" in chapter "Playing a DVD-Video disc").

- 1 Press SYSTEM MENU on the remote control during playback to enter the system menu.  
→ The system menu bar appears.
- 2 Press ◀ or ▶ on the remote control as often as necessary until ⏮ is selected.



- 3 Press ▼ or ▲ on the remote control as often as necessary to select the desired language or use the numerical keys on the remote control to key in the desired language number directly.  
→ After a few seconds, playback will continue with the selected language.

*Note: The languages will be abbreviated (e.g. "fr" for French). See your disc case for details on available languages.*

- To switch off the system menu bar press SYSTEM MENU on the remote control.

## ⏮ Subtitles

DVD-Video discs are often provided with subtitles in different languages. This means you can watch the same movie with subtitles in e.g. French, Spanish, etc.. You can change the subtitle language via the system menu. However depending on the type of DVD-Video disc the change you made may not be effective. If this happens change the language via the disc menu (see also "Disc menu" in chapter "Playing a DVD-Video disc").

- 1 Press SYSTEM MENU on the remote control during playback to enter the system menu.  
→ The system menu bar appears.
- 2 Press ◀ or ▶ on the remote control as often as necessary until ⏮ is selected.



- 3 Press ▼ or ▲ on the remote control as often as necessary to select the desired subtitle language or use the numerical keys on the remote control to key in the desired subtitle number directly.  
→ After a few seconds the subtitles will appear in the selected language.

- To switch off the subtitles press ▼ or ▲ repeatedly on the remote control until **off** appears in the system menu bar.
- To switch off the system menu bar press SYSTEM MENU on the remote control.

# Recording

## Copyright protection

When you try to record copy protected material from an external appliance, *COPY PROT* will be displayed. No recording is possible then.

This product incorporates Macrovision copyright protection technology that is protected by US patent no. 4631603, 4577216 and 4819098, as well as other intellectual property rights. Use of this copyright protection technology must be authorised by Macrovision Corporation, and is only intended for home use and other pay-per-view applications. Macrovision must provide written authorisation for any other use. Change to the device, reverse engineering or disassembly is prohibited.

**Recording is permissible insofar as copyright or other rights of third parties are not infringed upon. In some countries the use of the DVD recorder system as shown or suggested in this user manual may require the authorisation of copyright holders.**

## Discs for recording

For recording with this DVD recorder system, you can use 2 different types of DVD discs. These discs are marked with the logos shown below.

### – DVD+RW

can be recorded on, erased and re-recorded many times and played on DVD+RW compatible DVD players and DVD recorders.



### – DVD+R

can be recorded on once. Recordings can be added and deleted. However, the position of a deleted recording cannot be used for further recordings again. If the DVD+R is to be played on this DVD recorder system only, it does not have to be finalised. For playing the DVD+R on other standard DVD players and DVD recorders, it has to be finalised. Once a DVD+R has been finalised, no further recordings can be made.



## Before you start recording

For each recording on a DVD+RW or DVD+R disc, following information will be stored automatically:

- **Name of the recording:** If a TV station transmits the name of a programme (e.g. Superman), it will be stored automatically. If the programme's name is not transmitted, the channel number or channel name and the time when recording has been started will be stored as the name of the recording.
- **Total recording time**
- **Record type** (Quality)
- **Date of the recording**
- **Index picture of the recording**

Recordings on a DVD disc are called "titles". Each title consists of one or more "chapters".

Recordings on a DVD+RW disc are started from the position where the last recording was stopped. From there on, earlier recordings may be overwritten without notice, unless the disc is write protected. In this respect your DVD recorder system behaves just like a Video Cassette Recorder. If you want to make a recording without the risk of overwriting earlier recordings use the function safe record (see chapter "Safe record").

Notes:

*If a disc is inserted that already contains the maximum of 48 titles (including empty titles): **Too many titles** is displayed. You can only record on this disc after erasing one or more titles.*

*If a DVD+RW is inserted the contents of which are not DVD video compatible (e.g. a data disc): A dialogue box appears with the option to erase or eject the disc. You can only record on this disc after erasing it by using REC/OTR.*

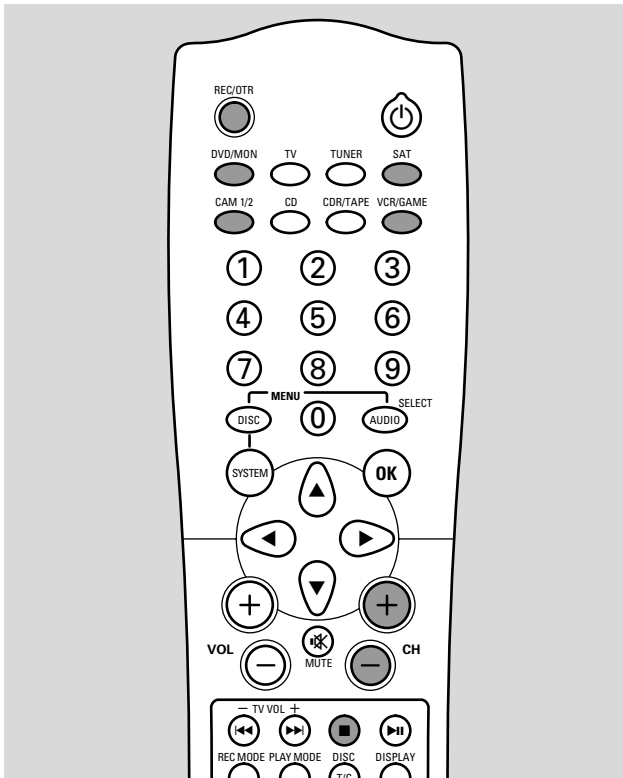
*On a disc containing PAL recordings, no NTSC recordings can be made and vice versa. On an empty disc, either type of recordings can be made.*

*No recordings can be made from so-called "Pseudo-PAL" or PAL-60 sources.*

## Quick recording from the TV

- 1 Switch your TV set on. If necessary set the TV to the correct audio/video channel for the DVD recorder system. Such channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1, EXT2 or EXTERNAL IN, etc. These channels are often near channel 00.
- 2 Load a DVD+R disc or DVD+RW disc on which you want to record in the tray.
- 3 Press DVD/MON on the remote control as often as necessary to see the currently selected TV channel.  
→ The currently selected TV channel from the DVD recorder system is displayed.
- 4 Press CH+ or CH- on the remote control as often as necessary to select the desired TV channel (programme number) from which you wish to record.
- 5 Keep REC/OTR on the remote control pressed until *SAFE RECO* is displayed.  
→ Recording starts. If you inserted a DVD+R disc or DVD+RW disc with already existing recordings the new recording starts at the end of all existing recordings.
- 6 Press STOP ■ to stop recording.  
→ Recording is stopped, *MENU UPDT* is displayed and the index picture screen will be updated.

## Recording from the TV or from another additional appliance



**If you want to record from another additional appliance, press on the remote control either:**

**SAT:** to record from a connected satellite receiver.  
**CAM1/2:** to record from a connected video camera. Press the button repeatedly to toggle between camera 1 (analogue input) and camera 2 (digital i-link input).  
**VCR/GAME:** to record from a connected video cassette recorder or a game console. Press the button repeatedly to toggle between video cassette recorder and game console.

- 4 Press RECORD on the DVD recorder system or REC/OTR on the remote control to start recording.  
 → Recording starts and the record indicator on the set lights up.

*Note: Recordings on a DVD+RW disc are started from the current position. From there on, earlier recordings may be overwritten without notice, unless the disc is write protected. To prevent this you can do a safe record, which means starting the recording at the end of all existing recordings (see chapter "Safe record").*

- The recording quality depends on the recording mode you have selected. During a recording from a satellite receiver, a video cassette recorder or a game console (if connected to EXT2 AUX I/O), you can choose viewing the original video quality or the recorded video quality. Press SAT or VCR/GAME to see the original video quality or press DVD/MON to see the recorded video quality.

- 5 Press STOP ■ to stop recording.  
 → Recording is stopped, MENU UPDT is displayed and the index picture screen will be updated.

*Note: If the recording could not be completed correctly due to a disc error, DISC ERR is displayed.*

- To interrupt recording press PLAY/PAUSE ►||.
- To resume recording press PLAY/PAUSE ►|| again.

- 1 Switch your TV set on. If necessary set the TV to the correct audio/video channel for the DVD recorder system. Such channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1, EXT2 or EXTERNAL IN, etc. These channels are often near channel 00.

- 2 Load a disc on which you want to record in the tray.  
 → RECORDING is displayed and the DVD recorder system checks the inserted disc. Depending on the disc, the following will be displayed:

**If a DVD+RW is inserted on which recordings have been made:**

→ The index picture screen appears.

**If a completely empty recordable disc is inserted:**

→ EMPTY DISC is displayed.

- 3 **If you want to record from the TV**

Press DVD/MON on the remote control as often as necessary to see the currently selected TV channel.

→ The currently selected TV channel is displayed.

Press CH+ or CH- on the remote control as often as necessary to select the desired TV channel (programme number) from which you wish to record.

*Note: If a TV channel transmits a channel name, it will be displayed.*

# Recording

## Safe record

When you start recording on a DVD+RW disc by pressing RECORD on the DVD recorder system or REC/OTR on the remote control once, a recording will be made from the current position. To prevent this you can do a safe record, which means starting the recording at the end of all existing recordings.

- Keep REC/OTR on the remote control pressed until **SAFE RECO** is displayed.  
→ Recording starts at the end of all existing recordings.

*Note: A new recording on a DVD+R disc will always be added at the end of all previous recordings as existing recordings cannot be overwritten.*

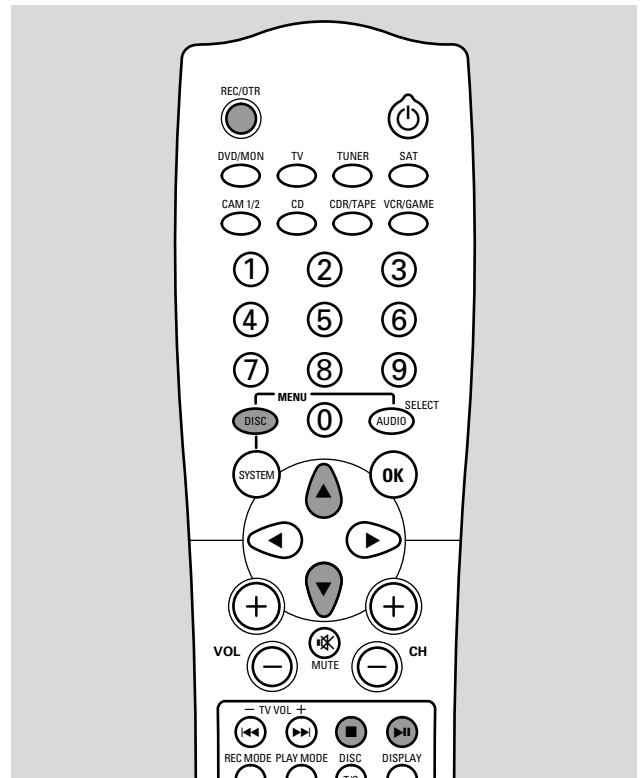
## Recording with automatic stop (OTR - One Touch Recording)

When you start recording, you can choose a certain recording time. After this time has elapsed, your recording will be stopped automatically.

- 1 Press REC/OTR on the remote control to start recording from the current position.  
→ Recording starts. The actual recording time left is displayed.
- 2 Press REC/OTR on the remote control again to choose a recording time of 30 minutes.  
→ Recording starts. The actual recording time left is displayed.
- To prolong the recording time, press REC/OTR again. Each time you press REC/OTR, 30 minutes will be added.  
→ The actual recording time left is displayed.
- To cancel the set recording time, press CLEAR on the remote control while the recording time is displayed.
- 3 After the chosen time has elapsed, recording stops automatically.

## Lining up recordings within a title - assemble cut (DVD+RW discs only)

On a recorded DVD+RW, you can add a further recording to an already existing title. The recording will be added to the title as chapter(s). All existing recordings will be overwritten from the chosen insert position onwards. Depending on the length of the added recording, this can also overwrite titles which follow the current title. The recording mode will be automatically taken over from the current title.



- 1 Load the appropriate DVD+RW disc.
- 2 Press DISC MENU on the remote control.  
→ The index picture screen appears.
- 3 Press ▼ or ▲ on the remote control as often as necessary to select the desired title for adding a further recording.
- 4 Press ►|| on the remote control to start playback.
- 5 Press ►|| again on the remote control during playback to mark where the new recording is to go.  
→ The shown still picture is the selected starting point.
- 6 Select the source from which you want to record.
- 7 Press RECORD on the DVD recorder system or REC/OTR on the remote control to start inserting the new recording.
- 8 Press STOP ■ to stop recording.

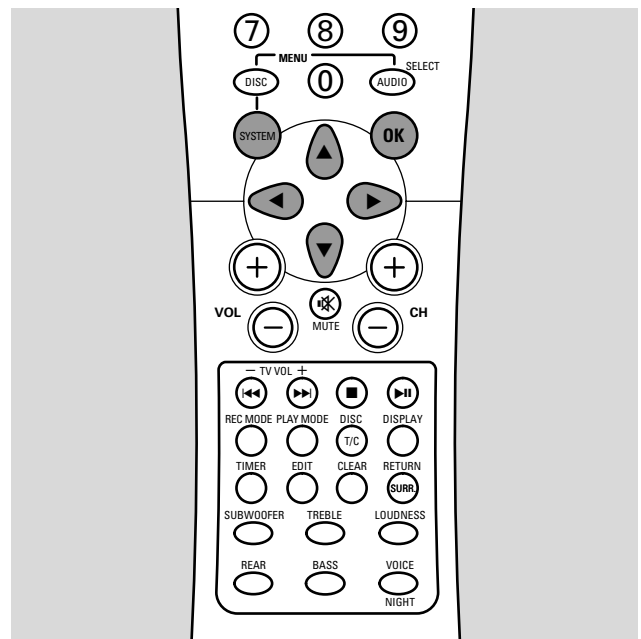
## Selecting the recording mode

By selecting a recording mode, you determine the picture quality of recordings and the maximum of possible recording time on a disc.

- 1 Switch your TV set on. If necessary set the TV to the correct audio/video channel for the DVD recorder system. Such channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1, EXT2 or EXTERNAL IN, etc. These channels are often near channel 00.
- 2 Load a disc on which you want to record in the tray.
- 3 Press DVD/MON on the remote control as often as necessary to see the currently selected TV channel.  
→ The currently selected TV channel is displayed.
- 4 Press CH+ or CH- on the remote control as often as necessary to select the desired TV channel (programme number) from which you wish to record.
- 5 Press REC MODE repeatedly on the remote control to select the desired recording mode:
  - **HQ**, **Record mode: HQ**: the recording mode **High Quality** offers the best picture quality and a maximum recording time of 60 minutes.
  - **SP**, **Record mode: SP**: The recording mode **Standard Play** offers excellent picture quality (pre-recorded DVD quality) and a maximum recording time of 120 minutes.
  - **SP+**, **Record mode: SP+**: The recording mode **Standard Play+** offers a better picture quality than S-VHS and a maximum recording time of 150 minutes.
  - **LP**, **Record mode: LP**: The recording mode **Long Play** offers S-VHS picture quality and a maximum recording time of 180 minutes.
  - **EP**, **Record mode: EP**: The recording mode **Extended Play** offers a better picture quality than VHS and a maximum recording time of 240 minutes.
  - **EP+**, **Record mode: EP+**: The recording mode **Extended Play+** offers VHS picture quality and a maximum recording time of 360 minutes.

## Selecting the recording mode via the menu

You can also select the desired recording mode via the system menu.

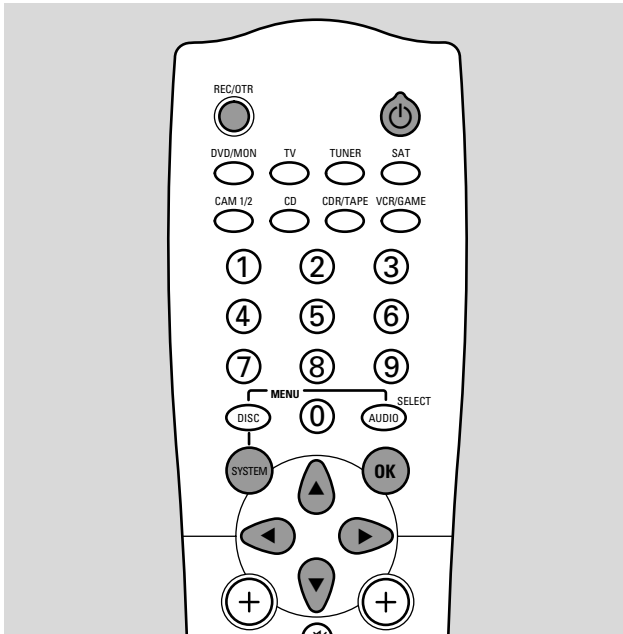


- 1 Press SYSTEM MENU on the remote control.
- 2 Press ◀ on the remote control as often as necessary until **TA** is selected.
- 3 Press ▼ on the remote control as often as necessary until **Record settings** is selected.
- 4 Press ▶ on the remote control to confirm the selection.
- 5 Press ◀ or ▶ on the remote control as often as necessary until the desired recording mode in the line **Record mode** is selected.
  - If you selected the recording mode **LP**, **EP** or **EP+**, you can do an additional setting: Use ▼ on the remote control to go to the line **Filter mode**. Use ◀ or ▶ on the remote control to select either **Stdndrd** (improves the picture quality for standard contents) or **Sport** (improves the picture quality for fast movements).
- 6 Press OK on the remote control to confirm the new setting.
- 7 Press SYSTEM MENU on the remote control to end.
  - To switch off the system menu bar press SYSTEM MENU again on the remote control.

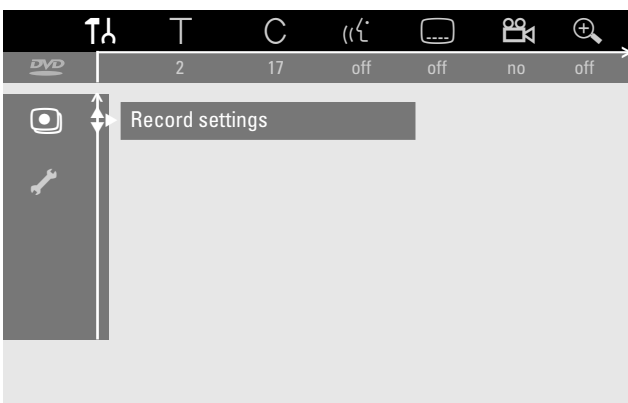
# Recording

## Automatic recording from a satellite receiver

This feature can be used only if you own a satellite receiver that can control other appliances via a scart cable and a programming feature (timer). For more information, please see the instruction manual of the satellite receiver:



- 1 Switch your TV set on. If necessary set the TV to the correct audio/video channel for the DVD recorder system. Such channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1, EXT2 or EXTERNAL IN, etc. These channels are often near channel 00.
- 2 Press SYSTEM MENU on the remote control.
- 3 Press ◀ on the remote control as often as necessary until **T** is selected.
- 4 Press ▼ or ▲ on the remote control as often as necessary until **Record settings** is selected.



- 5 Press ▶ on the remote control to confirm the selection.
- 6 Press ▼ or ▲ on the remote control as often as necessary until the line **Sat record** is selected.

- 7 Use ◀ or ▶ on the remote control to select **EXT2**.
- 8 To switch off automatic recording from a satellite receiver use ◀ or ▶ on the remote control to select **Off**.
- 8 Press OK on the remote control to confirm the selection.
- 9 Use a scart cable to connect the corresponding scart socket of the satellite receiver with the scart socket EXT 2 AUX I/O on the DVD recorder system.
- 10 Press SYSTEM MENU on the remote control to end.
- 11 Load a disc on which you want to record in the tray.
- 12 Programme the satellite receiver for recording (programme number of the TV channel, start time, end time). If necessary, see the instruction manual of the satellite receiver.
- 13 Press ⏻ on the remote control to switch off the DVD recorder system.
  - **⏻** is displayed and automatic recording from the satellite receiver is activated.
  - The DVD recorder system 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

When you are watching a TV programme with the DVD recorder system switched to standby you can instantly start recording the current TV channel if the function **Direct Record** is switched on. If the status light INSTANT - RECORD lights up, recording can be started without any delay. If it does not and you start recording, please note that the system takes about 20 seconds to start the recording.

### Switching Direct Record on or off

- 1 Switch your TV set on. If necessary set the TV to the correct audio/video channel for the DVD recorder system. Such channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1, EXT2 or EXTERNAL IN, etc. These channels are often near channel 00.
- 2 Press SYSTEM MENU on the remote control.
- 3 Press ◀ on the remote control as often as necessary until **TR** is selected.
- 4 Press ▼ or ▲ on the remote control as often as necessary until **Record settings** is selected.
- 5 Press ▶ on the remote control to confirm the selection.
- 6 Press ▼ or ▲ on the remote control as often as necessary until the line **Direct Record** is selected.
- 7 Use ◀ or ▶ on the remote control to select **On**.
  - To switch off direct recording use ◀ or ▶ on the remote control to select **Off**.
- 8 Press OK on the remote control to confirm the selection.
- 9 Press SYSTEM MENU on the remote control to end.
- 10 Press ⏻ on the remote control to switch the DVD recorder system to standby.

### Starting Direct Record

- 1 Make sure the function **Direct Record** is switched on.
- 2 Select on the TV the TV channel that you wish to record.
- 3 When the DVD recorder system is switched to standby, press REC/OTR on the remote control.
  - **READING** is displayed and the DVD recorder system searches the TV channel selected on the TV among its stored TV channels.

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

→ As soon as the TV channel is found, recording starts automatically.

*Note: If the DVD recorder system was not able to find the TV channel selected on the TV among its stored TV channels, **NOTV** is displayed. Make sure all TV channels stored on the TV are available on the DVD recorder system. If necessary, store any missing channel. Check if the connectors at both ends of the scart cable are plugged in correctly and firmly. Check your TV's instruction manual to see which scart socket is used for video signals. If the problem then still persists, this feature is not available.*

- 4 Press STOP ■ to stop recording.



# Timer recording

---

Timer recording allows you to automatically start and stop a recording at a later date. The DVD recorder system switches to the right programme number and starts recording at the time entered.

You can pre-programme up to 6 recordings within a period of one month.

Following information has to be keyed in to make a timer recording:

- **the date of the recording**
- **the programme number of the TV channel**
- **the start and stop time of the recording**
- **VPS/PDC on or off**
- **the recording mode**

This information is saved in a timer block.

---

## VPS and PDC

With **V**ideo **P**rogramming **S**ystem and **P**rogramme **D**elivery **C**ontrol the TV station controls the start and the duration of recordings. The DVD recorder system switches itself on and off at the right time even if a TV programme starts earlier or ends later than scheduled.

Usually the start time is the same as the VPS/PDC time. However, if your TV magazine indicates a time that differs from the programme's start time (e.g. programme start 20.15 and VPS/PDC 20.14), you have to key in 20.14 as start time.

If you want to key in a time that differs from the VPS/PDC time, you have to switch off VPS/PDC.

Only one TV programme on a TV channel at a time can be controlled using VPS/PDC. If you like to record two or more TV programmes on a TV channel by using VPS/PDC, you have to programme them separately.

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## NexTView Link

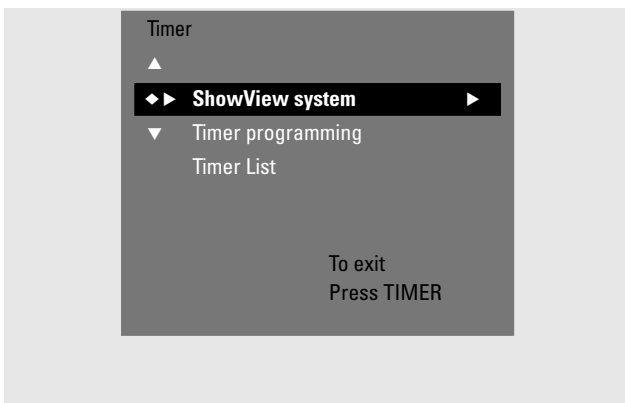
This DVD recorder system is equipped with NexTView Link. In case your TV set is also equipped with this function, you can mark TV programmes on the TV for programming. These TV programmes will be transmitted automatically in the timer block on the DVD recorder system for recording. If you clear the marking on the TV, the corresponding timer block on the DVD recorder system will also be cleared. For further information, please see the instruction manual of your TV set.

*Note: If the TV station does not send the necessary signal, NexTView Link will not work.*

## Programming a recording with the ShowView® system

You do not need to tediously enter the date, the programme number; the start and end time. All information needed for programming is contained in the ShowView® programming number. You can find this number in most of the TV magazines, indicated next to the start time of the TV programme.

- 1 Switch your TV set on. If necessary set the TV to the correct audio/video channel. Such channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1, EXT2 or EXTERNAL IN, etc. These channels are often near channel 00.
- 2 Press DVD/MON on the remote control as often as necessary to see the currently selected TV channel.  
→ The currently selected TV channel is displayed.
- 3 Press CH+ or CH- on the remote control as often as necessary to select the desired TV channel (programme number) from which you wish to record.
- 4 Press TIMER on the remote control.
- 5 Press ▼ or ▲ on the remote control as often as necessary until the line **ShowView system** is selected.



- 6 Press ► on the remote control to confirm the selection.
- 7 Use the numerical keys on the remote control to enter the ShowView® programming number. This number is up to 9 digits long, e.g. for 5-312-4 or 5 312 4 enter 53124.
  - To clear, in case you made a mistake, press CLEAR on the remote control.
  - If you wish your recording to be repeated, press SELECT on the remote control as often as necessary, until the desired option is selected:
    - **Mo-Fr**: for recordings to be repeated daily from Monday to Friday
    - **Weekly**: for recordings to be repeated weekly (every week on the same day)
- 8 Press OK on the remote control to confirm.  
→ The timer programme appears.

Notes:

If **ShowView number wrong** is displayed, the keyed in ShowView® programming number is incorrect. Check time and date on the DVD recorder system. Repeat your entry correctly or end programming by pressing SYSTEM MENU.

If **Please enter programme number** is displayed, the programme number of the TV channel has not yet been allocated to the ShowView® programming number. Select the appropriate programme number of the TV channel using ◀, ▶ or the numerical keys on the remote control and confirm by pressing OK.

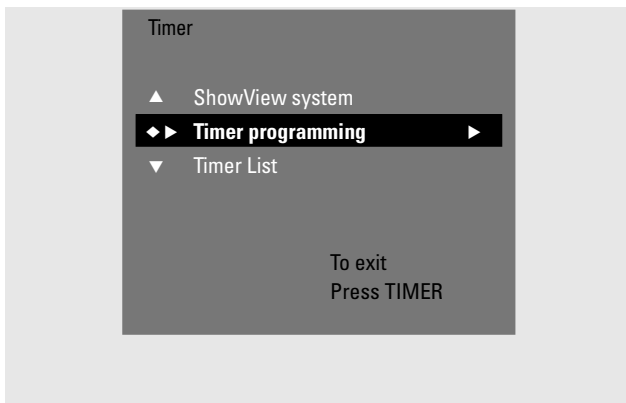
If **daily recording was entered for a wrong day, Weekend programming not possible** is displayed. Make sure to enter a day from Monday to Friday.

- To change the timer programme, you can go back at any time. Use ◀ or ▶ to select the appropriate input field. Use ▼ or ▲, or the numerical keys on the remote control to change the information.
- To switch on VPS/PDC press ► on the remote control to select the line **Start**. Press SELECT on the remote control as often as necessary until ✳ lights up.  
→ VPS/PDC is switched on.
- To change the recording mode press ► on the remote control to select the line **End**. Press SELECT on the remote control as often as necessary until the desired recording mode is selected.
- 9 Press OK again on the remote control to store the entire programming information.  
→ The entire programming information is stored.
- 10 Press TIMER on the remote control to end.
- 11 Load a disc on which you want to record in the tray.
- 12 Select another source by pressing the corresponding button on the remote control (TV, TUNER, CD, CDR, TAPE) or press ⏻ on the remote control to switch off the DVD recorder system. **The timer recording will only work properly if another source is selected or the DVD recorder system is switched off with ⏻.**  
→ If any recordings are programmed, ⏻ lights up.

# Timer recording

## Programming a recording without the ShowView® system

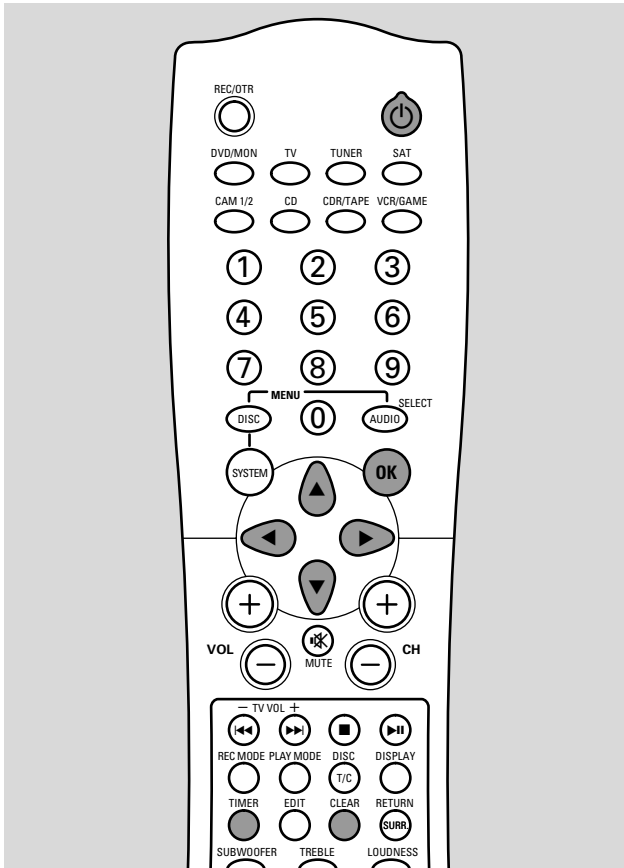
- 1 Switch your TV set on. If necessary set the TV to the correct audio/video channel. Such channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1, EXT2 or EXTERNAL IN, etc. These channels are often near channel 00.
- 2 Press DVD/MON on the remote control as often as necessary to see the currently selected TV channel.  
→ The currently selected TV channel is displayed.
- 3 Press CH+ or CH- on the remote control as often as necessary to select the desired TV channel (programme number) from which you wish to record.
- 4 Press TIMER on the remote control.
- 5 Press ▼ or ▲ on the remote control as often as necessary until the line **Timer programming** is selected.



- 6 Press ► on the remote control to confirm the selection.  
→ The entry field **Date** is selected.
- 7 Use ▼, ▲ or the numerical keys on the remote control to enter the date.
  - To programme a repeated recording press SELECT on the remote control as often as necessary, until the desired option is selected:
    - **Mo-Fr**: for recording to be repeated daily from Monday to Friday
    - e.g. **Mo**: for recording to be repeated weekly (every week on the same day, e.g. Monday)
- 8 Press ► on the remote control to select the entry field **Prog.**.
- 9 Use ▼ or ▲ on the remote control to enter the programme. If you wish to programme recordings from additional appliances via a scart socket on the DVD recorder system select one of the following options:
  - **EXT1**: Recordings via the scart socket 1 is selected.
  - **EXT2**: Recordings via the scart socket 2 is selected.

- 10 Press ► on the remote control to select the entry field **Start**.
- 11 Use ▼, ▲ or the numerical keys on the remote control to enter the start time.
  - To switch on VPS/PDC press SELECT on the remote control as often as necessary until \* lights up.  
→ VPS/PDC is switched on.
- 12 Press ► on the remote control to select the entry field **End**.
- 13 Use ▼, ▲ or the numerical keys on the remote control to enter the time to end.
  - To change the recording mode press SELECT on the remote control as often as necessary until the desired recording mode is selected.
- 14 Press OK again on the remote control to store the entire programming information.  
→ The entire programming information is stored.
- 15 Press TIMER on the remote control to end.
- 16 Load a disc on which you want to record in the tray.
- 17 Select another source by pressing the corresponding button on the remote control (TV, TUNER, CD, CDR, TAPE) or press ⏻ on the remote control to switch off the DVD recorder system. **The timer recording will only work properly if another source is selected or the DVD recorder system is switched off with ⏻.**  
→ If any recordings are programmed, ⏻ lights up.

## Checking, changing or deleting a timer recording



**6 If you want to check or change the timer recording:**  
Press **▶** again on the remote control.

Use **◀** or **▶** on the remote control to select the input field to be checked or changed.

Use **▼**, **▲** or the numerical keys on the remote control to change the desired data.

Press **OK** on the remote control to store the changed data.

**If you want to delete the timer recording:**

Press **CLEAR** on the remote control.

→ **Clear timer** is displayed.

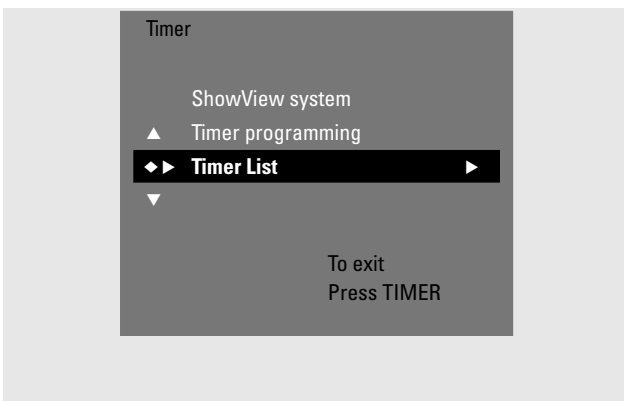
Press **OK** on the remote control to start deleting.

→ **Timer Cleared** is displayed briefly, the programmed recording data disappear and are replaced by -----.

**7** Press **TIMER** on the remote control to end.

**8** Press **⏻** on the remote control to switch off the DVD recorder system.

- 1** Switch your TV set on. If necessary set the TV to the correct audio/video channel. Such channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1, EXT2 or EXTERNAL IN, etc. These channels are often near channel 00.
- 2** Press **TIMER** on the remote control.
- 3** Press **▼** or **▲** on the remote control as often as necessary until the line **Timer List** is selected.



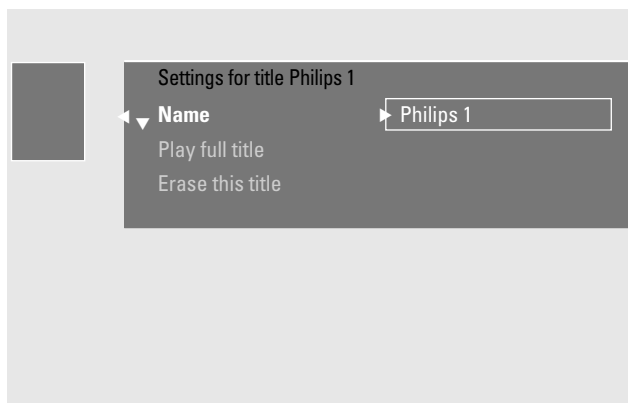
- 4** Press **▶** on the remote control to confirm the selection.
- 5** Press **▼** or **▲** on the remote control as often as necessary to select the timer recording to be checked, changed or deleted.

# Advanced features

## Editing the name of the recording

After the recording has been made, you can change the name of the recording.

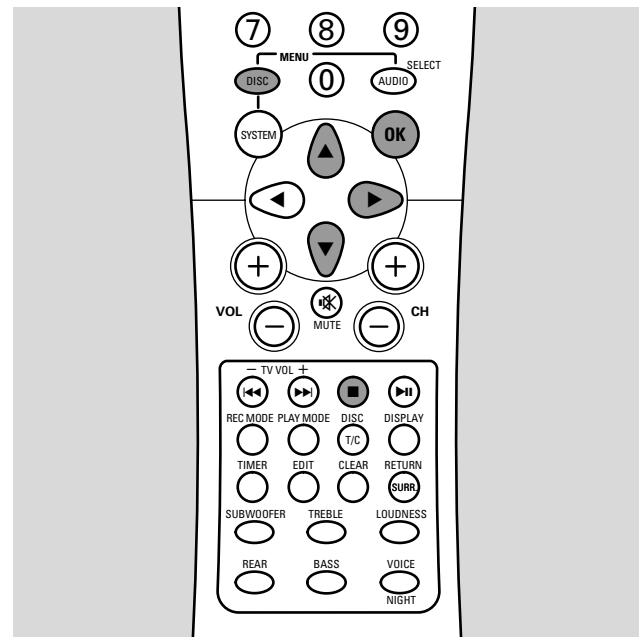
- 1 Press STOP ■ when playback is stopped or press DISC MENU on the remote control during playback.
- 2 Press ▼ or ▲ on the remote control as often as necessary to select the desired title for editing.
- 3 Press ► on the remote control to confirm the selection.  
→ The editing menu appears.
- 4 Press ▼ or ▲ on the remote control as often as necessary to select the line **Name**.



- 5 Press ► on the remote control to confirm the selection.
- 6 Use ◀ or ▶ on the remote control to move to the character to be deleted or substituted.  
→ The character is highlighted.
- 7 Use ▼ or ▲ on the remote control to select a new character, symbol or number.
  - To switch between upper and lower case press SELECT on the remote control.
  - To delete a character press CLEAR on the remote control.
- 8 Repeat steps 6–7 until the name of the recording is changed as desired.
- 9 Press OK on the remote control to confirm the new name.  
→ **Storing name** is displayed.
- 10 Press ◀ on the remote control to exit the editing menu.

## Erasing an entire recording/title

You can erase an entire recording/title from a DVD+RW or an unfinalised DVD+R. The position of a deleted title on a DVD+RW can be used for a new recording. However, a deleted title on a DVD+R is only marked as deleted, but not physically deleted. This means the deleted title will be skipped during playback, but no new recording can be made. Once the DVD+R has been finalised no further changes can be made.



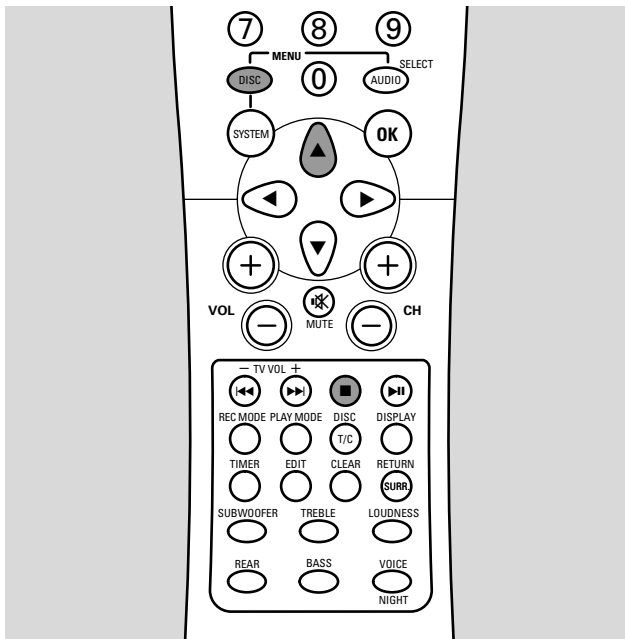
- 1 Press STOP ■ when playback is stopped or press DISC MENU on the remote control during playback.
- 2 Press ▼ or ▲ on the remote control as often as necessary to select the desired title for erasing.
- 3 Press ► on the remote control to confirm the selection.  
→ The editing menu appears.
- 4 Press ▼ or ▲ on the remote control as often as necessary to select the line **Erase this title**.
- 5 Press OK on the remote control to confirm.  
→ **This will completely erase this title** and **Press OK to confirm** is displayed.
- 6 Press OK again on the remote control to erase the entire recording/title.  
→ **Erasing title** is displayed.  
→ Afterwards **Empty title** (if you inserted a DVD+RW) or **Deleted title** (if you inserted a DVD+R) is displayed in the index picture screen.  
*Note: If the deleted title was shorter than 1 minute Empty title or Deleted title will not be displayed.*
  - To exit the editing menu without erasing press ◀ on the remote control.

## Disc info screen (DVD+R, DVD+RW discs only)

You can use the disc info screen for the following proceedings:

- Changing the disc name
- Activating or deactivating the write protection
- Making edits compatible for other DVD players
- Finalising DVD+R discs
- Erasing DVD+RW discs

## How to display the disc info screen



## Changing the disc name (DVD+R, DVD+RW discs only)

- 1 Press STOP ■ when playback is stopped or press DISC MENU on the remote control during playback.
- 2 Press ▲ on the remote control as often as necessary until you reach the **first** title of the disc menu.
- 3 Press ▲ again on the remote control.  
→ The disc info screen appears.
- 4 Press ► on the remote control.  
→ The menu **Settings for** appears.
- 5 Press ▼ or ▲ on the remote control as often as necessary to select the line **Disc name**.



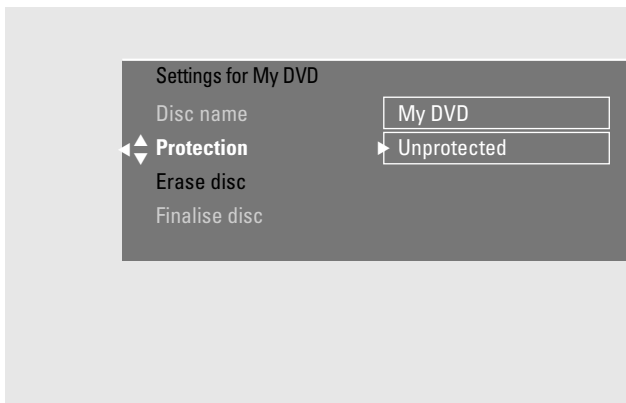
- 1 Press STOP ■ when playback is stopped or press DISC MENU on the remote control during playback.
- 2 Press ▲ on the remote control as often as necessary until you reach the **first** title of the disc menu.
- 3 Press ▲ again on the remote control.  
→ The disc info screen appears.
- To exit the disc info screen press ▼ on the remote control.
- 6 Press ► on the remote control to confirm the selection.
- 7 Use ◀ or ▶ on the remote control to move to the character to be deleted or substituted.  
→ The character is highlighted.
- 8 Use ▼ or ▲ on the remote control to select a new character; symbol or number.
- To switch between upper and lower case press SELECT on the remote control.
- To delete a character press CLEAR on the remote control.
- 9 Repeat steps 7–8 until the name of the recording is changed as desired.
- 10 Press OK on the remote control to confirm the new name.  
→ **Storing name** is displayed.
- 11 Press ◀ on the remote control to end.
- To exit the disc info screen press ▼ on the remote control.

# Advanced features

## Activating or deactivating the write protection (DVD+R, DVD+RW discs only)

You can prevent a recording on a DVD+RW disc from accidental erasure by protecting it. However, the protection can be activated for the entire disc only. An individual recording cannot be protected. DVD+R discs can be protected the same way as DVD+RW discs as long as they are not finalised.

- 1 Press STOP ■ when playback is stopped or press DISC MENU on the remote control during playback.
- 2 Press ▲ on the remote control as often as necessary until you reach the **first** title of the disc menu.
- 3 Press ▲ again on the remote control.  
→ The disc info screen appears.
- 4 Press ► on the remote control.  
→ The menu **Settings for** appears.
- 5 Press ▼ or ▲ on the remote control as often as necessary to select the line **Protection**.

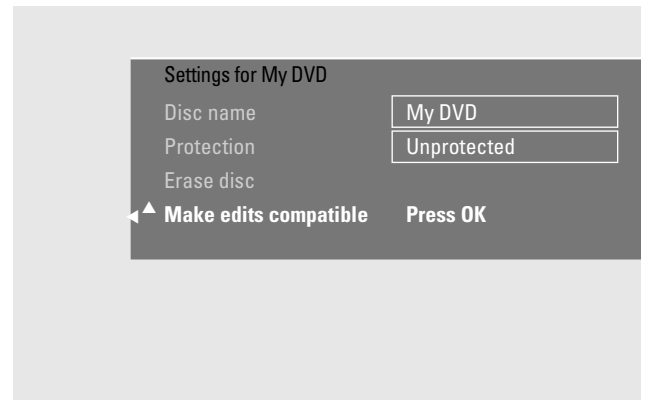


- 6 Press ► on the remote control to confirm the selection.
- 7 Press ▼ or ▲ on the remote control as often as necessary to select either the line:  
**Unprotected:** for deactivating the write protection  
**Protected:** for activating the write protection
- 8 Press OK on the remote control to confirm.
- 9 Press ◀ on the remote control to end.
- To exit the disc info screen press ▼ on the remote control.

## Making edits compatible (DVD+RW discs only)

If one title or several titles have been edited (chapter markers have been inserted or deleted, or chapters have been hidden) a standard DVD player may still show the original title. You can prepare your disc in such a way that a standard DVD player will be able to read the edited title.

- 1 Press STOP ■ when playback is stopped or press DISC MENU on the remote control during playback.
- 2 Press ▲ on the remote control as often as necessary until you reach the **first** title of the disc menu.
- 3 Press ▲ again on the remote control.  
→ The disc info screen appears.
- 4 Press ► on the remote control.  
→ The menu **Settings for** appears.
- 5 Press ▼ or ▲ on the remote control as often as necessary to select the line **Make edits compatible, Press OK**.



*Note: If your disc is already compatible, **Make edits compatible** will not be displayed and a conversion is not needed. To end press SYSTEM MENU on the remote control.*

- 6 Press OK on the remote control to confirm.  
→ **This will take** plus the time needed for this process and **Press OK to confirm** are displayed.
- 7 Press OK again on the remote control to start the process.  
→ **Working** is displayed and the process is started.  
→ A bar moving from left to right indicates the current status of the converting progress.
- To exit the disc info screen press ▼ on the remote control.



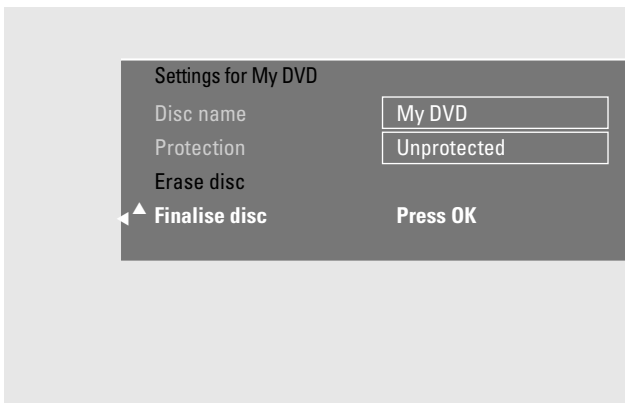
## Finalising DVD+R discs

Finalising is a simple process that completes the recording of a DVD+R disc necessary to play it on a standard DVD player. DVD+R discs are "locked" once they are finalised. No further recordings or erasure can be made.

- 1 Press STOP ■ when playback is stopped or press DISC MENU on the remote control during playback.
- 2 Press ▲ on the remote control as often as necessary until you reach the **first** title of the disc menu.
- 3 Press ▲ again on the remote control.  
→ The disc info screen appears.
- 4 Press ► on the remote control.  
→ The menu **Settings for** appears.

*Note: If the disc has been recorded on another DVD recorder system, **Settings for** may not be displayed. In this case, use the function **Finalise disc** in the T1 menu, in the **Features** submenu.*

- 5 Press ▼ or ▲ on the remote control as often as necessary to select the line **Finalise disc**.

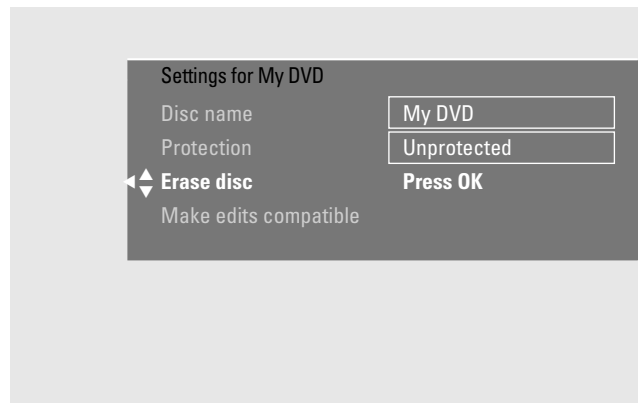


*Note: If there is no DVD+R disc inserted or the disc is already finalised, **Finalise disc** will not be displayed. To end press SYSTEM MENU on the remote control.*

- 6 Press OK on the remote control to confirm the selection.  
→ **This will take** plus the time needed for this process are displayed.
- 7 Press OK again on the remote control to start the process.  
→ **Working** is displayed and the process is started.  
→ A bar moving from left to right indicates the current status of the finalising progress.

## Erasing an entire DVD+RW disc

- 1 Press STOP ■ when playback is stopped or press DISC MENU on the remote control during playback.
- 2 Press ▲ on the remote control as often as necessary until you reach the **first** title of the disc menu.
- 3 Press ▲ again on the remote control.  
→ The disc info screen appears.
- 4 Press ► on the remote control.  
→ The menu **Settings for** appears.
- 5 Press ▼ or ▲ on the remote control as often as necessary to select the line **Erase disc, Press OK**.



- 6 Press OK on the remote control to confirm.  
→ **This will erase all titles, Press OK to confirm** is displayed.
- To exit, in case you do not want to erase, press ◀ on the remote control.
- 7 Press OK again on the remote control to start erasing.  
→ **Erasing disc** is displayed and erasing is started.  
→ When erasing is finished, the empty space left on the disc will be shown on the index picture screen.
- To exit the disc info screen press ▼ on the remote control.

# Advanced features

## Favorite Scene Selection menu

In this menu, you can adjust a title to your personal preferences. You can select a new index screen or split the title. You can also insert or delete chapter markers and hide chapters, which can be helpful for cutting of scenes or searching more quickly through your DVD+R or DVD+RW disc.

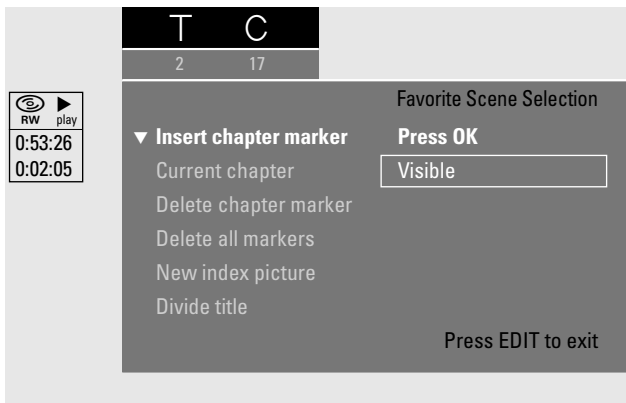
## Inserting chapter markers

During playback you can set and erase chapter markers. The maximum number of chapters per disc is 124. The maximum number of chapters per title is 99. If the maximum is reached, **Too many chapters** is displayed. In this case you have to erase some chapter markers before new ones can be added.

For DVD+R discs, this function will only work when the disc is played on this DVD recorder system. When the DVD+R disc is played on a standard DVD player, inserted chapter markers will still be shown.

For DVD+RW discs, the edits must be made compatible for the function to work on a standard DVD player. See chapter "Making edits compatible".

- 1 Press EDIT on the remote control during playback.  
→ The menu **Favorite Scene Selection** appears.  
→ The line **Insert chapter marker, Press OK** is selected.



- 2 As soon as the desired sequence for inserting the chapter marker is reached, press OK on the remote control.  
→ **Inserting chapter marker** is displayed and the chapter marker is inserted.

*Note: If X appears on the TV screen either a write protected DVD or a finalised DVD+R disc has been inserted. Inserting chapter markers is not possible then.*

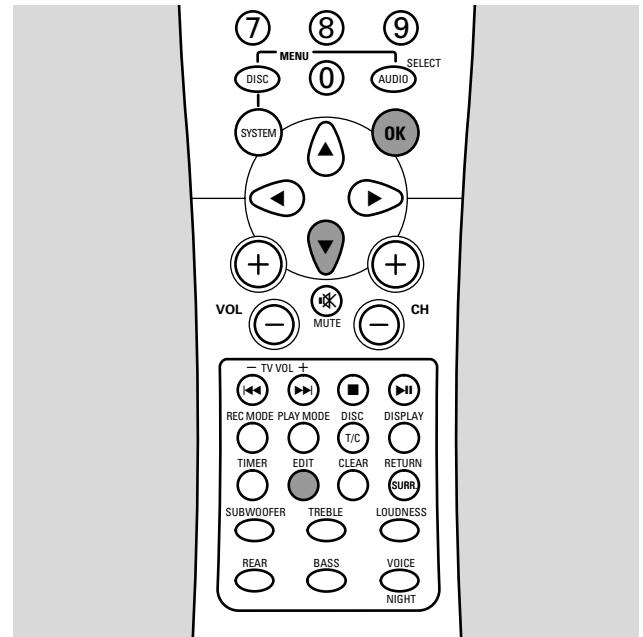
- 3 Press EDIT on the remote control to end.

## Deleting chapter markers

You can delete particular chapter markers or all chapter markers within a title.

For DVD+R discs, this function will only work when the disc is played on this DVD recorder system. When the DVD+R disc is played on a standard DVD player, deleted chapter markers will still be shown.

For DVD+RW discs, the edits must be made compatible for the function to work on a standard DVD player. See chapter "Making edits compatible".



- 1 As soon as the desired chapter is played, press EDIT on the remote control.  
→ The menu **Favorite Scene Selection** appears.
- 2 **If you want to delete a particular chapter marker of the current chapter:**  
Press ▼ on the remote control as often as necessary until the line **Delete chapter marker, Press OK** is selected.  
**If you want to delete all chapter markers within the current title:**  
Press ▼ on the remote control as often as necessary until the line **Delete all markers, Press OK** is selected.  
Press OK on the remote control to confirm.  
→ **This will delete all markers in this title, Press OK to confirm** is displayed.
- 3 Press OK on the remote control to confirm.
- 4 Press EDIT on the remote control to end.

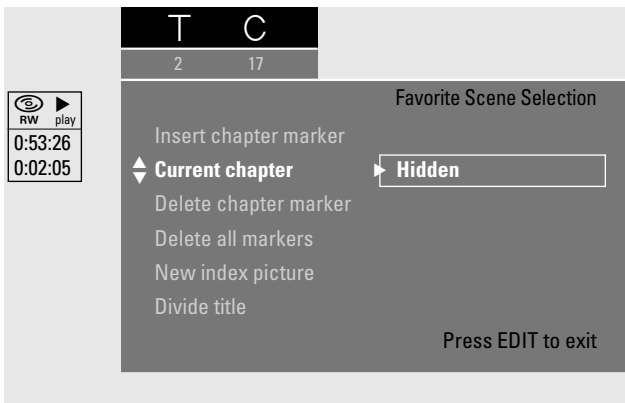
## Hiding chapters

You can hide chapters (e. g. commercials) during playback and make them visible again.

For DVD+R discs, this function will only work when the disc is played on this DVD recorder system. When the DVD+R disc is played on a standard DVD player, hidden chapter markers will still be shown.

For DVD+RW discs, the edits must be made compatible for the function to work on a standard DVD player. See chapter "Making edits compatible".

- 1 As soon as the desired chapter to be hidden is played, press **EDIT** on the remote control.  
→ The menu **Favorite Scene Selection** appears.
- 2 Press **▼** on the remote control as often as necessary to select the line **Current chapter**.



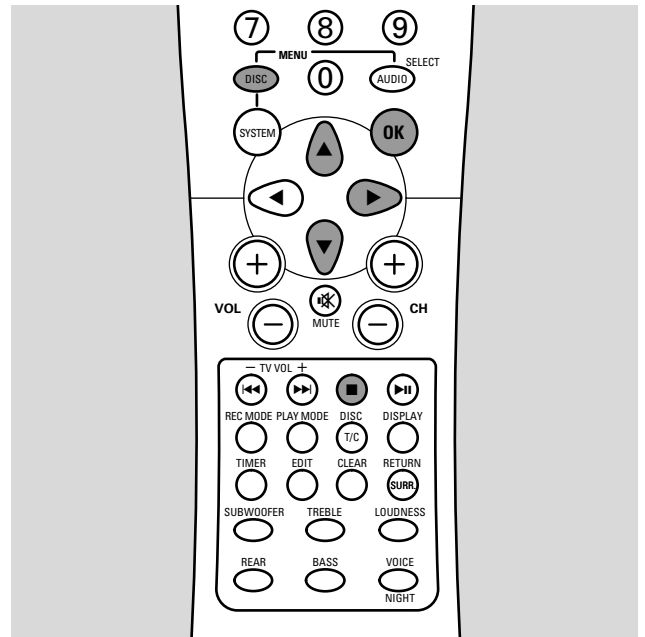
- 3 Press **▶** on the remote control to select **Hidden**.  
→ The picture is shown darker.
  - 4 Press **EDIT** on the remote control to end.  
→ The selected chapter will be skipped from now on during playback.
- To make the hidden chapter visible again repeat steps 1–2. Press **▶** on the remote control to select **Visible** or to quickly switch between **Hidden** and **Visible** press **SELECT** on the remote control.
  - To select other chapters press **T/C** on the remote control.  
→ The system menu bar appears.

Use **◀** or **▶** on the remote control to select title **T** or chapter **C**.

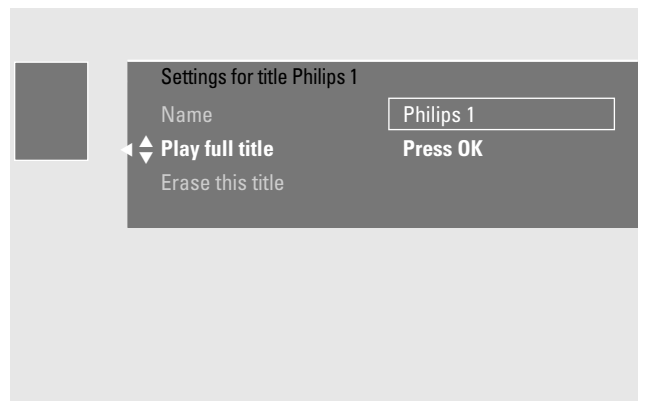
Press **▼** or **▲** on the remote control as often as necessary until the desired title/chapter number is selected.

## Playing the entire title including hidden chapters

If you have hidden certain chapters of a title, this feature enables you to watch the entire title including the hidden chapters.



- 1 Press **STOP** **■** when playback is stopped or press **DISC MENU** on the remote control during playback.
- 2 Press **▼** or **▲** on the remote control as often as necessary to select the desired title for entire playback.
- 3 Press **▶** on the remote control to confirm the selection.  
→ The editing menu appears.
- 4 Press **▼** or **▲** on the remote control as often as necessary to select the line **Play full title**.

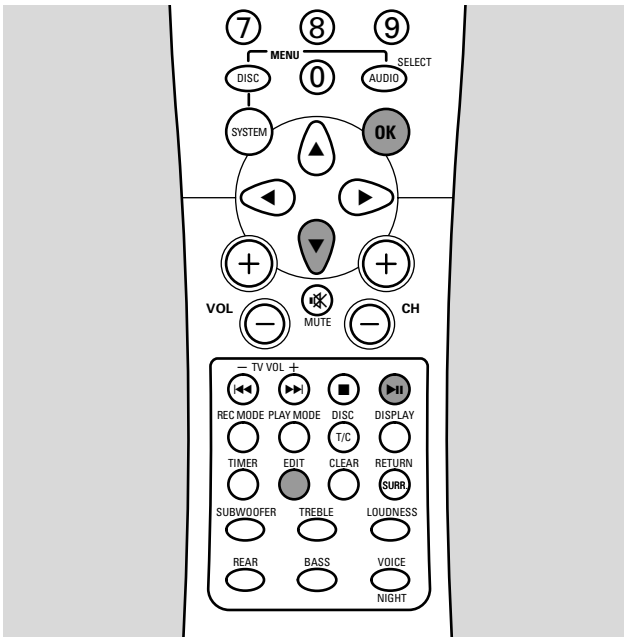


- 5 Press **OK** on the remote control to confirm.  
→ Playback of the entire title starts automatically.

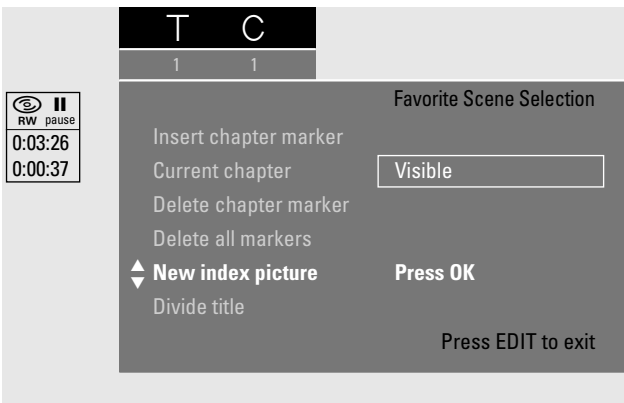
# Advanced features

## Changing the index picture

The first picture of your recording is automatically used as the index picture. You can, however, choose any picture from the recording as the index picture.



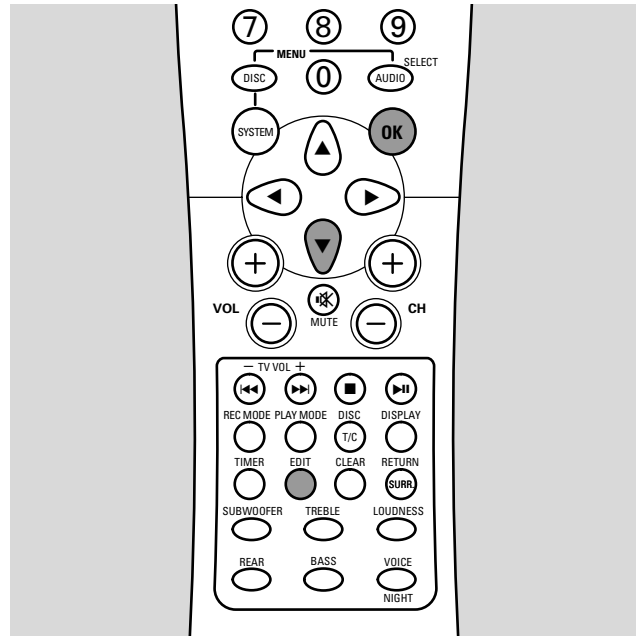
- 1 As soon as the desired sequence that you want to choose as the new index picture is played, press **▶||** on the remote control.  
→ The still picture is shown.
- 2 Press **EDIT** on the remote control.  
→ The menu **Favorite Scene Selection** appears.
- 3 Press **▼** on the remote control as often as necessary to select the line **New index picture**, **Press OK**.



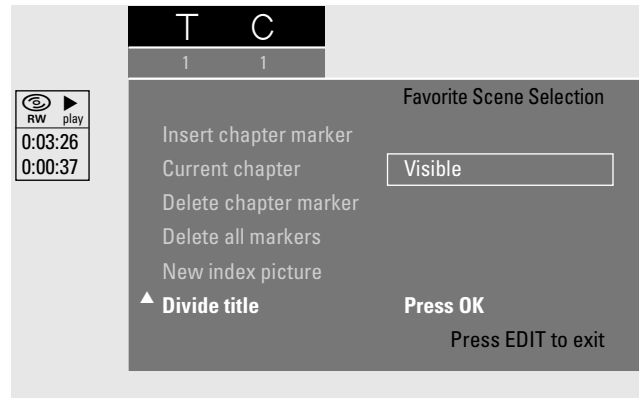
- 4 Press **OK** on the remote control to confirm.  
→ **This will update the index picture, Press OK to confirm** is displayed.
- 5 Press **OK** again on the remote control to start the index picture change.  
→ **Updating menu** is displayed and the changing process is started.  
→ When changing is completed successfully, the index picture screen with the new index picture appears.

## Dividing titles (on DVD+RW discs only)

You can divide a title into several parts. Each new part will become a new title with its own index picture. Please note that **the division of a title cannot be reversed!**



- 1 As soon as the desired title that you want to divide is played, press **EDIT** on the remote control.  
→ The menu **Favorite Scene Selection** appears.
- 2 Press **▼** on the remote control as often as necessary to select the line **Divide title**, **Press OK**.

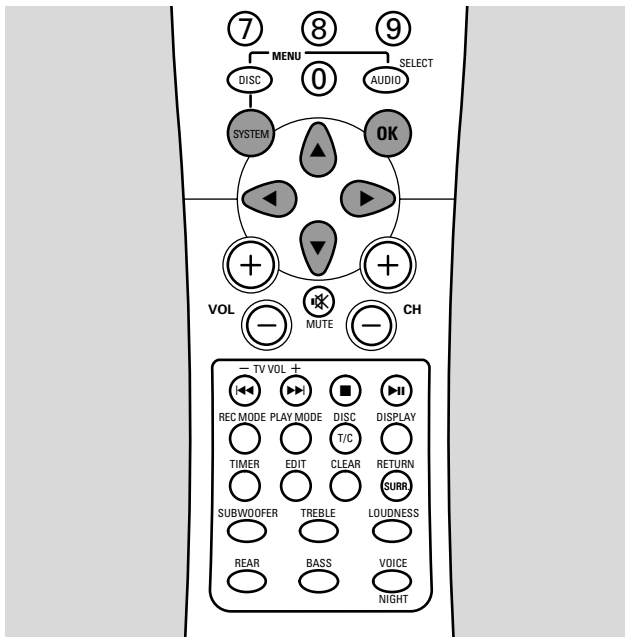


- 3 As soon as the desired position where you wish to divide is reached, press **OK** on the remote control to confirm.  
→ The still picture is shown and **This will divide this title into two separate titles, Press OK to confirm** is displayed.
- 4 Press **OK** on the remote control to start the division.  
→ **Dividing title** is displayed and the dividing process is started.  
→ When the process is finished, the new title with its own index picture appears on the index picture screen.

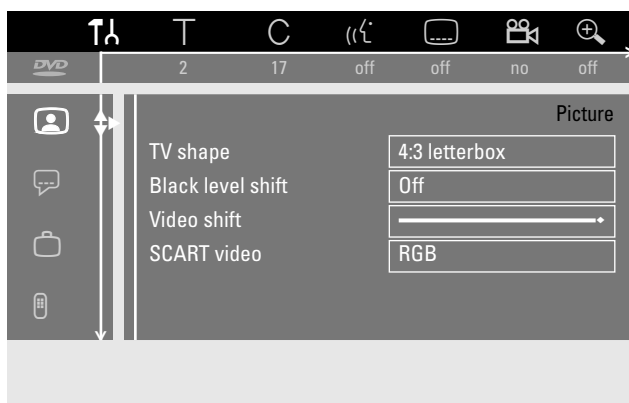
You can set following personal user preferences on the DVD recorder system:

- **Picture**
- **Language**
- **Features**
- **Remote control settings**
- **Record settings**
- **Installation**

## **Picture**



- 1** Switch your TV set on. If necessary set the TV to the correct audio/video channel. Such channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1, EXT2 or EXTERNAL IN, etc. These channels are often near channel 00.
- 2** Press SYSTEM MENU on the remote control.  
→ The system menu bar appears.
- 3** Press ◀ on the remote control as often as necessary until is selected.
- 4** Press ▼ on the remote control to confirm.
- 5** Press ▼ or ▲ on the remote control as often as necessary until **Picture** is selected.



- 6** Press ▶ on the remote control to confirm the selection.
- 7** Press ▼, ▲ on the remote control as often as necessary to select the desired function.
- 8** Press ▶ on the remote control to confirm the selection.
- 9** Press ▼, ▲ on the remote control as often as necessary to select the desired setting. You can choose as follows:

### **TV shape**

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

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

The colour dynamics for NTSC playback can be adjusted.

- **On**: The colour contrast during disc playback will be improved.
- **Off**: The colour contrast during disc playback remains unchanged.

### **Video shift**

You can move the TV picture to the left or to the right to suit your TV screen. Use ◀ or ▶ on the remote control for adjustment.

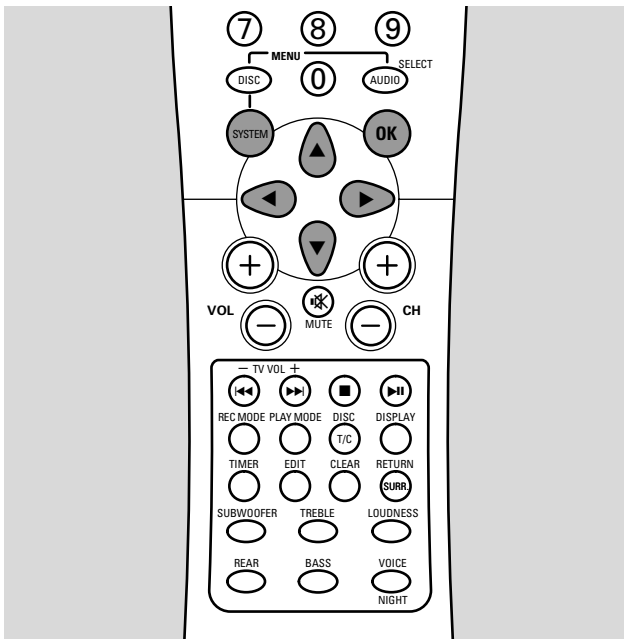
### **SCART video**

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

- 10** Press OK on the remote control to confirm the new setting.
- 11** Press ◀ on the remote control to end.

# User preferences

## Language



7 Press ▼, ▲ on the remote control as often as necessary to select the desired function. You can choose following functions:

### Audio language

The audio language for playback can be chosen.

### Subtitle

The subtitle language can be chosen.

### Menu

The language for the screen menu can be chosen.

### Country

The country where the DVD recorder system is used can be chosen.

8 Press ► on the remote control to confirm the selection.

9 Press ▼, ▲ on the remote control as often as necessary to select the desired setting.

10 Press OK on the remote control to confirm the new setting.

11 Press ◀ on the remote control to end.

- 1 Switch your TV set on. If necessary set the TV to the correct audio/video channel. Such channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1, EXT2 or EXTERNAL IN, etc. These channels are often near channel 00.
- 2 Press SYSTEM MENU on the remote control.  
→ The system menu bar appears.
- 3 Press ◀ on the remote control as often as necessary until T is selected.
- 4 Press ▼ on the remote control to confirm.
- 5 Press ▼ or ▲ on the remote control as often as necessary until Language is selected.



6 Press ► on the remote control to confirm the selection.

## Features

- 1 Switch your TV set on. If necessary set the TV to the correct audio/video channel. Such channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1, EXT2 or EXTERNAL IN, etc. These channels are often near channel 00.
- 2 Press SYSTEM MENU on the remote control.  
→ The system menu bar appears.
- 3 Press ◀ on the remote control as often as necessary until **Features** is selected.
- 4 Press ▼ on the remote control to confirm.
- 5 Press ▼ or ▲ on the remote control as often as necessary until **Features** is selected.
- 6 Press ▶ on the remote control to confirm the selection.
- 7 Press ▼, ▲ on the remote control as often as necessary to select the desired function.
- 8 Press ▶ on the remote control to confirm the selection.
- 9 Press ▼, ▲ on the remote control as often as necessary to select the desired setting. You can choose as follows:

### Access control

See separate chapter "Access control".

### Status box

With OSD (**O**n **S**creen **D**isplay) not only screen menus, but also information on the current operating status (counter; playback, recording TV channel...) are displayed on the TV screen. You can switch off the OSD information to avoid recording it when recording from the DVD recorder system to an additional appliance.

- **On:** The OSD information appears in every selected mode for a few seconds and disappears again.
- **Off:** The OSD information is switched off and is no longer displayed on the TV screen.

### Auto resume

If playback was interrupted on a pre-recorded DVD-Video disc or Video CD disc, playback will start after reloading at exactly the same position where it was interrupted. This applies not only to the current disc but to the last 20 discs played.

- **On:** The function is switched on.
- **Off:** The function is switched off.

### Low power standby

You can switch off the clock display on the DVD recorder system to save power. Programmed recordings will nevertheless be executed.

- **On:** If the DVD recorder system is switched to standby by pressing ⏻ on the remote control, the clock display is switched off.
- **Off:** If the DVD recorder system is switched to standby by pressing ⏻ on the remote control, the clock display is still visible.

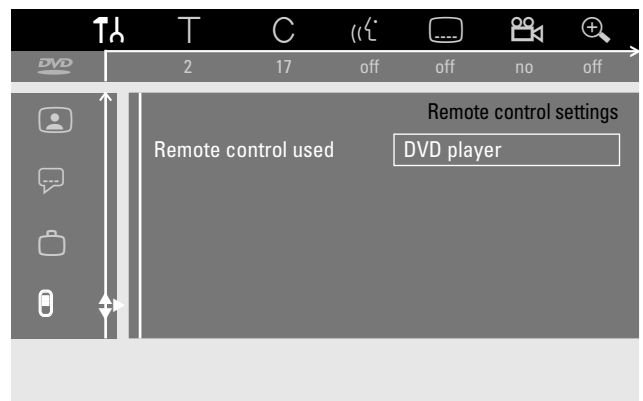
### PBC

This line only appears if a (Super) Video CD is inserted. With this setting you can activate or deactivate the PBC menu (see "Playing a (Super) Video CD").

- 10 Press OK on the remote control to confirm the new setting.
- 11 Press ◀ on the remote control to end.

## Remote control settings

- 1 Switch your TV set on. If necessary set the TV to the correct audio/video channel. Such channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1, EXT2 or EXTERNAL IN, etc. These channels are often near channel 00.
- 2 Press SYSTEM MENU on the remote control.  
→ The system menu bar appears.
- 3 Press ◀ on the remote control as often as necessary until **Features** is selected.
- 4 Press ▼ on the remote control to confirm.
- 5 Press ▼ or ▲ on the remote control as often as necessary until **Remote control settings** is selected.



- 6 Press ▶ on the remote control to confirm the selection.
- 7 Press ▶ again on the remote control to confirm.
- 8 Press ▼, ▲ on the remote control as often as necessary to select the desired setting. You can choose as follows:

### Remote control used

You can set the remote control type to which your DVD recorder system should respond to:

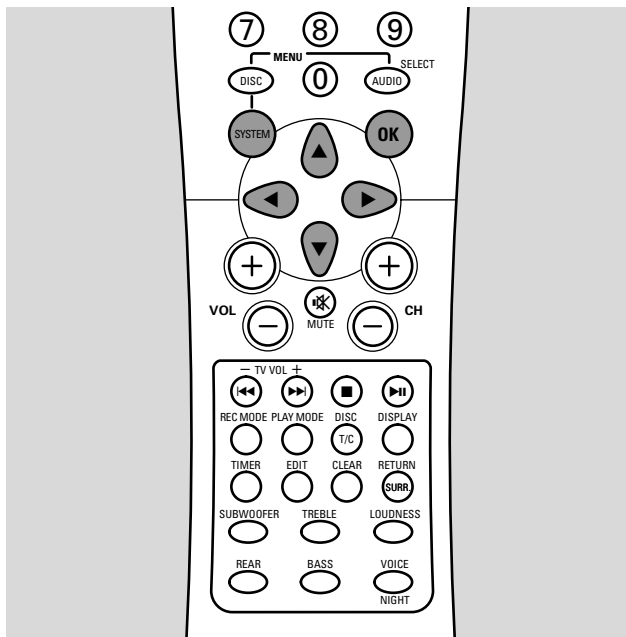
- **DVD player:** The DVD recorder system responds additionally to a DVD player remote control (remote control code RC-6). Choose this setting if the remote control of your Philips TV set supports DVD functions.
- **DVD recorder:** The DVD recorder system responds only to the supplied remote control.

- 9 Press OK on the remote control to confirm the new setting.
- 10 Press ◀ on the remote control to end.

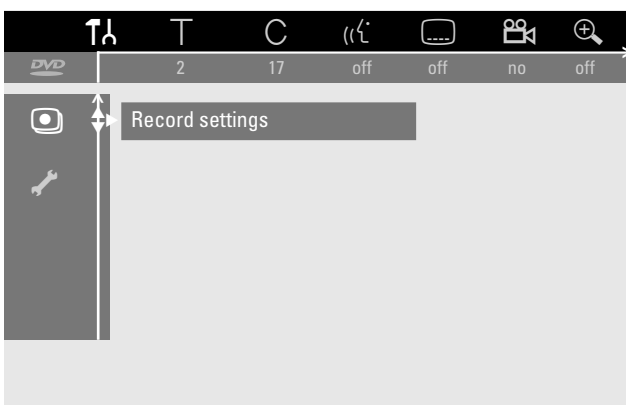


# User preferences

## Record settings



- 1 Switch your TV set on. If necessary set the TV to the correct audio/video channel. Such channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1, EXT2 or EXTERNAL IN, etc. These channels are often near channel 00.
- 2 Press SYSTEM MENU on the remote control.  
→ The system menu bar appears.
- 3 Press ◀ on the remote control as often as necessary until **T** is selected.
- 4 Press ▼ on the remote control to confirm.
- 5 Press ▼ or ▲ on the remote control as often as necessary until **Record settings** is selected.



- 6 Press ▶ on the remote control to confirm the selection.
- 7 Press ▼, ▲ on the remote control as often as necessary to select the desired function.

8 Press ◀▶ on the remote control as often as necessary to select the desired setting. You can choose as follows:

### Record mode

See "Selecting the recording mode via the menu" in chapter "Selecting the recording mode".

### Direct Record

See separate chapter "Direct Record".

### Sat record

See separate chapter "Automatic recording from a satellite receiver".

### Auto chapters

If this function is activated a chapter marker will be set automatically every 5–6 minutes during recording. Chapter markers can be changed when the recording has been finished.

- **On:** The function is activated.
- **Off:** The function is deactivated.

*Note: Automatically set chapter markers on a DVD+R disc or DVD+RW disc are compatible for playback on a standard DVD player. A conversion is not needed.*

### Filter mode

See "Selecting the recording mode via the menu" in chapter "Selecting the recording mode".

- 9 Press OK on the remote control to confirm the new setting.
  - 10 Press SYSTEM MENU on the remote control to end.
- To switch off the system menu bar press SYSTEM MENU again on the remote control.

## Installation

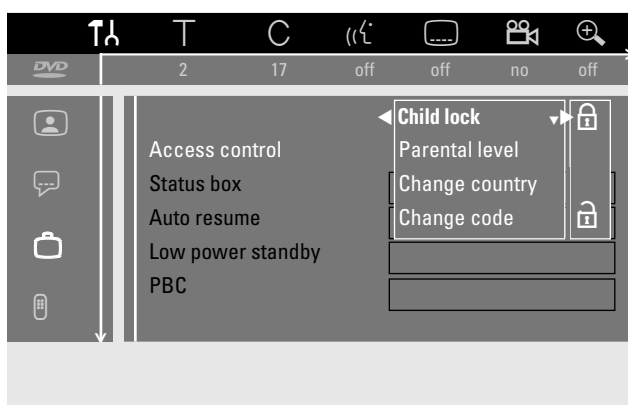
See chapters "Searching TV channels", "Changing the order of TV channels and deleting TV channels", "Additional TV channel settings" and "Setting the time and date".

## Child lock (DVD-Video discs, (Super) Video CDs, DVD+R discs, DVD+RW discs only)

This feature enables you to lock discs for children. If a child locked disc is loaded, it can only be played if a 4-digit code (pincode) is entered. In addition you can choose if the loaded child locked disc can be played always or only once.

### Activating and deactivating the child lock

- 1 Switch your TV set on. If necessary set the TV to the correct audio/video channel. Such channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1, EXT2 or EXTERNAL IN, etc. These channels are often near channel 00.
- 2 Press to switch on the DVD recorder system.
- 3 Load the disc to be child locked in the tray.
- 4 Press SYSTEM MENU on the remote control.  
→ The system menu bar appears.
- 5 Press on the remote control as often as necessary until is selected.
- 6 Press or on the remote control as often as necessary until **Features** is selected.
- 7 Press on the remote control to confirm the selection.
- 8 Press on the remote control to confirm the selected line **Access control, Enter code....**
- 9 Use the numerical keys on the remote control to enter a 4-digit code.
- 10 Enter the same code again as confirmation.
- 11 Press or on the remote control as often as necessary until the line **Child lock** is selected.



- 12 Press on the remote control to confirm the selection.
- 13 Press or on the remote control as often as necessary to select either:  
: to activate the child lock,  
 or  
: to deactivate the child lock.

- 14 Press OK on the remote control to confirm the selection.  
**If was selected:**  
 → From now on the loaded disc can only be played after entering the 4-digit code.  
**If was selected:**  
 → The child lock is deactivated.
- 15 Press SYSTEM MENU on the remote control to switch off the system menu bar.

### Authorising a disc

- 1 Switch your TV set on. If necessary set the TV to the correct audio/video channel. Such channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1, EXT2 or EXTERNAL IN, etc. These channels are often near channel 00.
- 2 Press to switch on the DVD recorder system.
- 3 Load a disc in the tray.  
→ The access control box will appear after a short while.
- 4 Press or on the remote control as often as necessary to select either:  
**Play once:** The disc is authorised for single playback only. If the DVD recorder system is switched off, the 4-digit code must be entered again.  
**Play always:** The disc is authorised for playback and is stored in a memory with space for 50 child-safe discs. If more than 50 discs are stored, the “oldest” disc in the list will be removed and the new disc will be added.  
**Child safe** appears on the screen when playback is started.
- 5 Use the numerical keys on the remote control to enter the 4-digit code.

#### Notes:

Each side on a double-sided DVD-Video disc may have a marking (ID number). In this case each side must be authorised separately.

Each volume on a multi-volume (Super) Video CD disc may have a marking. In this case each volume must be authorised separately.

### Locking authorised discs

This feature enables you to lock a disc that was formerly authorised.

- 1 Load a disc in the tray.  
→ Playback starts. If it does not, press PLAY/PAUSE .
- 2 As soon as appears on the screen press STOP.  
→ changes into and the disc is locked.

# Access control

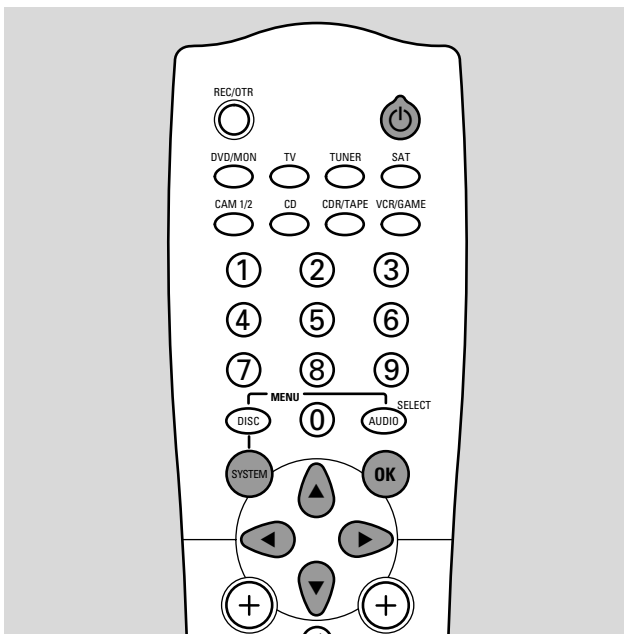
## Filter function and parental control (DVD-Video discs only)

Movies on pre-recorded DVD-Video discs may contain scenes not suitable for children. Some of those discs may contain "Parental control" rating information that applies to the entire disc or to certain scenes on the disc. The rating information on the disc is country dependent. The levels reach from 1–8:

- **1:** Recommended as acceptable for viewers of all ages.
- **2:** Reserved
- **3:** Parental guidance suggested.
- **4:** Material is unsuitable for children under age 13.
- **5:** Reserved
- **6:** Recommended that parents restrict children under 17 from viewing or allow to view only when supervised by a parent.
- **7:** Not recommended for children under age 17
- **8:** For adults only

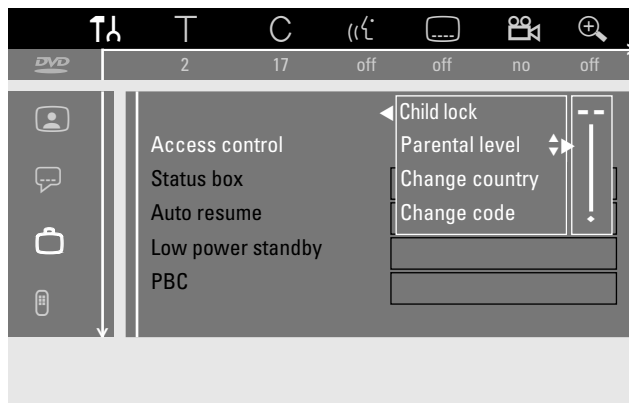
You can set a filter value on the DVD recorder system. If during playback a scene that contains a "Parental control" rating information is detected, the set filter value on the DVD recorder system is compared to it. For example, if a filter value of 5 is set on the DVD recorder system, only discs with a "Parental control" rating of a lower or equal level (1, 2, 3, 4 and 5) will play. If the scene's rating is higher (e.g. 8) than the set filter value, an alternative scene (if available) will be played. If there is no alternative scene available, playback is stopped and the 4-digit code has to be entered again.

### Activating and deactivating the filter function



- 1** Switch your TV set on. If necessary set the TV to the correct audio/video channel. Such channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1, EXT2 or EXTERNAL IN, etc. These channels are often near channel 00.
- 2** Press to switch on the DVD recorder system.

- 3** Press SYSTEM MENU on the remote control.  
→ The system menu bar appears.
- 4** Press on the remote control as often as necessary until **TA** is selected.
- 5** Press or on the remote control as often as necessary until **Features** is selected.
- 6** Press on the remote control to confirm the selection.
- 7** Press on the remote control to confirm the selected line **Access control, Enter code...**
- 8** Use the numerical keys on the remote control to enter a 4-digit code. If you entered a new code you have to enter the same code again as confirmation.
- 9** Press or on the remote control as often as necessary until the line **Parental level** is selected.
- 10** Press on the remote control to confirm the selection.  
→ The menu bar with the different filter values appears.

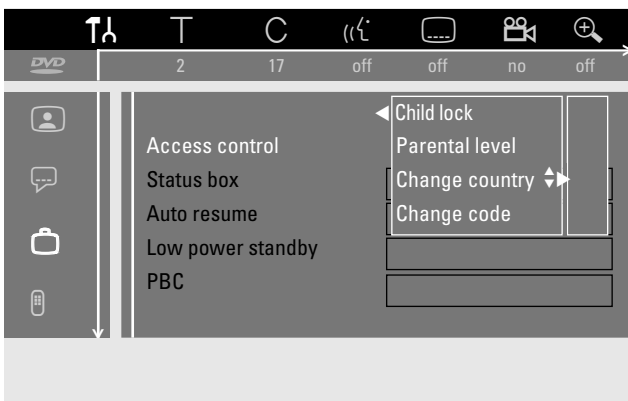


- 11** Press or as often as necessary or use the numerical keys on the remote control to select one of the desired filter values:  
→ : The filter function is switched off. All scenes will be played.  
→ **1:** Scenes of level 1 only will be played.  
→ **2:** Scenes of levels 1–2 will be played.  
→ **3:** Scenes of levels 1–3 will be played.  
→ **4:** Scenes of levels 1–4 will be played.  
→ **5:** Scenes of levels 1–5 will be played.  
→ **6:** Scenes of levels 1–6 will be played.  
→ **7:** Scenes of levels 1–7 will be played.  
→ **8:** Scenes of levels 1–8 (all scenes) will be played.
- 12** Press OK on the remote control to confirm the selection.
- 13** Press SYSTEM MENU on the remote control to switch off the system menu bar.

## Changing the country code (DVD-Video discs only)

The set filter values depend on the respective country. Therefore it is necessary to enter the country in which you live.

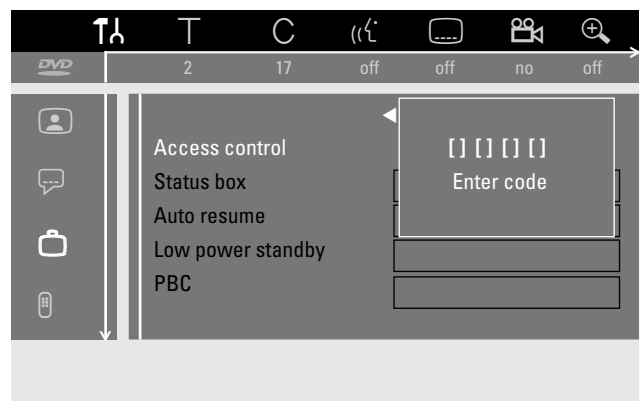
- 1 Switch your TV set on. If necessary set the TV to the correct audio/video channel. Such channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1, EXT2 or EXTERNAL IN, etc. These channels are often near channel 00.
- 2 Press **⏻** to switch on the DVD recorder system.
- 3 Press SYSTEM MENU on the remote control.  
→ The system menu bar appears.
- 4 Press **⏪** on the remote control as often as necessary until **T** is selected.
- 5 Press **⏴** or **⏵** on the remote control as often as necessary until **Features** is selected.
- 6 Press **▶** on the remote control to confirm the selection.
- 7 Press **▶** on the remote control to confirm the selected line **Access control, Enter code...**
- 8 Use the numerical keys on the remote control to enter the 4-digit code.
- 9 Press **⏴** or **⏵** on the remote control as often as necessary until the line **Change country** is selected.



- 10 Press **▶** on the remote control to confirm the selection.
- 11 Press **⏴** or **⏵** on the remote control as often as necessary to select the corresponding country.
- 12 Press OK on the remote control to confirm the selection.
- 13 Press SYSTEM MENU on the remote control to switch off the system menu bar.

## Changing the 4-digit code (DVD-Video discs, (Super) Video CDs, DVD+R discs, DVD+RW discs only)

- 1 Switch your TV set on. If necessary set the TV to the correct audio/video channel. Such channels may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1, EXT2 or EXTERNAL IN, etc. These channels are often near channel 00.
- 2 Press **⏻** to switch on the DVD recorder system.
- 3 Press SYSTEM MENU on the remote control.  
→ The system menu bar appears.
- 4 Press **⏪** on the remote control as often as necessary until **T** is selected.
- 5 Press **⏴** or **⏵** on the remote control as often as necessary until **Features** is selected.
- 6 Press **▶** on the remote control to confirm the selection.
- 7 Press **▶** on the remote control to confirm the selected line **Access control, Enter code...**



- 8 Use the numerical keys on the remote control to enter the **old** 4-digit code.
- 9 Press **⏴** or **⏵** on the remote control as often as necessary until the line **Change code** is selected.
- 10 Press **▶** on the remote control to confirm the selection.
- 11 Use the numerical keys on the remote control to enter the **new** 4-digit code.
- 12 Enter the same code again as confirmation.
- 13 Press SYSTEM MENU on the remote control to switch off the system menu bar.

### If you have forgotten your 4-digit code

- 1 Follow steps 1–7 as described above.
- 2 Press STOP **■** 4 times when prompted for the 4-digit code.  
→ The old 4-digit code is deleted.
- 3 Enter a new 4-digit code twice.

# Troubleshooting






## WARNING

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

**If a fault occurs, first check the points listed before taking the set for repair. If you are unable to solve a problem by following these hints, consult your dealer or service centre.**




## Laser safety

**This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.**

Problem	Solution
<b>No power</b>	<ul style="list-style-type: none"><li>– Make sure the mains cable is connected properly.</li><li>– Press  STANDBY•ON on the set to switch it on.</li></ul>
<b>No reaction to controls and IS TV ON? indication</b>	<ul style="list-style-type: none"><li>– The set is in initial installation mode: Switch the TV on, switch over to the DVD recorder system socket. The menu for language selection appears. Continue as described in the chapter “Basic settings”.</li></ul>
<b>Set does not work and is in standby</b>	<ul style="list-style-type: none"><li>– The DVD recorder system has become too hot and the overheating safety circuit has been activated. Let the DVD recorder system cool down, then press  to switch it on again.</li></ul>
<b>No reaction to controls</b>	<ul style="list-style-type: none"><li>– Check the power supply.</li><li>– Disconnect the set from power supply, reconnect after 30 seconds.</li><li>– Reset the set to the default factory settings: <b>All the information stored (programmes, time and date) will be lost.</b><ol style="list-style-type: none"><li><b>1</b> Disconnect the set from power supply.</li><li><b>2</b> Press and hold down  STANDBY•ON on the set and reconnect the set.</li><li><b>3</b> As soon as IS TV ON? is displayed, release .</li><li><b>4</b> Continue as described in chapter “Basic settings”.</li></ol></li></ul>
<b>Remote control does not function properly</b>	<ul style="list-style-type: none"><li>– Point the remote control towards the set.</li><li>– Remove batteries, wait 10 seconds and insert them correctly or insert new batteries.</li><li>– Reduce distance to the set.</li><li>– The remote control has been switched to control an external appliance. Briefly press DVD/MON or TUNER to control the DVD recorder or the radio tuner.</li></ul>
<b>Demo mode is on</b>	<ul style="list-style-type: none"><li>– Keep STOP  pressed for at least 5 seconds to cancel the demo mode.</li></ul>
<b>External appliance not selectable and INSTALL SOURCE is scrolled</b>	<ul style="list-style-type: none"><li>– The selected appliance is not installed on the DVD recorder system. Please see “When adding appliances or changing the connections of appliances” on how to install it.</li></ul>

Problem	Solution
<b>Does not play displayed</b>	<ul style="list-style-type: none"> <li>Make sure there is a DVD recording on the disc from which you want to record.</li> <li>Make sure the disc is not scratched or dirty. Replace or clean the disc.</li> </ul>
<b>Does not record</b>	<ul style="list-style-type: none"> <li>Make sure the disc has been inserted, printed side up.</li> <li>The desired TV channel for recording is not stored or a wrong programme number (channel number) has been selected. Check the TV channels stored.</li> <li>Check if the right disc type has been inserted: DVD-Video disc, DVD-R(W), (Super) Video CD, Audio CD, CDR(W), MP3-CD or DVD+R(W).</li> <li>The inserted disc is write protected. Remove the write protection or load another non write protected disc.</li> <li>Parental Control is switched on, see chapter "Access control".</li> <li>An already finalised DVD+R disc has been inserted. Replace it by an unfinalised DVD+R disc.</li> <li>Make sure the correct programme number (channel number) for the DVD recorder system has been selected on the TV set.</li> </ul>
<b>Timer recording does not work</b>	<ul style="list-style-type: none"> <li>Check if the connection cable between DVD recorder system and TV set is properly connected.</li> <li>Make sure the information in the timer block is programmed correctly.</li> <li>Wait until steamed up laser lens has cleaned the write protection or load another non write protected disc.</li> </ul>
<b>No sound</b>	<ul style="list-style-type: none"> <li>Disconnect the headphones.</li> <li>Make sure no finalised DVD+R disc has been inserted.</li> <li>Switch on the selected source or select another source.</li> <li>Make sure the time for VPS/PDC has been entered exactly to the minute.</li> </ul>
<b>No bass sound</b>	<ul style="list-style-type: none"> <li>Connect the supplied subwoofers.</li> </ul>
<b>No sound on one of the speakers after you programmed a recording using ShowView® system No sound on the centre and/or rear speakers</b>	<ol style="list-style-type: none"> <li>Check if the speakers is connected properly.</li> <li>Check if the speaker cable is damaged.</li> <li>Check the programme number entered in the line <b>Prog.</b> If it does not correspond to the desired TV channel, select the input field and change the programme number.</li> <li>Make sure <b>HL 5</b> has been selected for <b>CENTR LS</b> and <b>REAR LS</b> in the audio menu. Please see chapter "When changing the speaker setup".</li> </ol>
<b>Switch off timer recording flashes on the TV screen No digital surround sound (Dolby Digital, DTS, MPEG) available</b>	<ul style="list-style-type: none"> <li>The DVD recorder system is switched on a few minutes before a timer recording starts. However, a timer recording only works if the DVD recorder system is switched off. Press <b>STOP</b> to switch the DVD recorder system off.</li> <li>Check if the selected external appliance is connected to DIGITAL IN or OPTICAL IN on the DVD recorder system.</li> </ul>
<b>Insert recordable disc indication Picture and sound are not simultaneous indicated briefly</b>	<ul style="list-style-type: none"> <li>Make sure a recordable DVD+R or DVD+RW disc is inserted.</li> <li>Set the TV to the correct video channel for the DVD recorder system.</li> <li>The recording quality depends on the recording mode you have selected. During a recording from a satellite receiver, a video cassette recorder or a game console (if connected to EXT2 AUX I/O), you can choose viewing the original video quality or the recorded video quality. Press <b>SAT</b> or <b>VCR/GAME</b> to see the original video quality or press <b>DVD/MON</b> to see the recorded video quality.</li> </ul>
<b>Memory full indication after pressing TIMER on the remote control</b>	<ul style="list-style-type: none"> <li>All timer blocks are already programmed. No further recordings can be programmed unless an existing timer block is cleared.</li> </ul>
<b>Data error indication No picture, only sound is available</b>	<ul style="list-style-type: none"> <li>The data for the recording could not be transferred. Check the date, start time and end time of the timer recording.</li> <li>Set the TV to the correct video channel for the selected source.</li> </ul>
<b>Poor quality of playback: distorted picture and/or sound Collision indication</b>	<ul style="list-style-type: none"> <li>Make sure the TV set is properly adjusted.</li> <li>The data for 2 timer recordings overlap. Change the data for one recording or delete one of the timer recordings. If you ignore the indication, the picture may be temporarily distorted. This is not a defect of your DVD recorder system.</li> <li>Sometimes the picture may be temporarily distorted. This is not a defect of your DVD recorder system. Sometimes the timer recording with the earlier start time will be recorded first. The start of the second recording will be missing.</li> </ul>
<b>Picture and/or sound interference on TV reception</b>	<ul style="list-style-type: none"> <li>Switch to recording mode <b>HQ</b> by using <b>REC MODE</b> during playback from the internal TV tuner (DVD/MON). This will help to achieve the best possible picture quality.</li> <li>Check your aerial.</li> <li>Change the TV system (see "Additional TV channel settings")</li> </ul>

# Troubleshooting

Problem	Solution
<b>The picture is distorted or black-and-white during playback</b>	<ul style="list-style-type: none"><li>– The TV system of the inserted disc does not match the TV system of your TV (PAL/NTSC).</li><li>– Switch the following setting in the system menu:  <b>Picture - SCART video</b> - switch to <b>RGB</b></li></ul>
<b>No sound signal at the digital output</b>	<ul style="list-style-type: none"><li>– Check if the sound settings match the selected inputs and the connected additional appliances.</li><li>– If you inserted an MP3-CD, the digital output is switched off during playback. This is in accordance with the SDMI (Secure Digital Music Initiative) and is not a defect of your DVD recorder system.</li></ul>
<b>DVD+RW disc does not play on other DVD players</b>	<ul style="list-style-type: none"><li>– If a recording is too short, it is possible that a DVD player cannot detect it. Please pay attention to the following minimum recording times depending on the different recording modes: <b>HQ</b>: 5 minutes, <b>SP</b>: 10 minutes, <b>SP+</b>: 13 minutes, <b>LP</b>: 15 minutes, <b>EP</b>: 20 minutes, <b>EP+</b>: 30 minutes</li><li>– On some DVD players DVD+RW recordings cannot be played. You can use the following special function to solve this problem for certain DVD players. However, please note that there is a risk that you can no longer play the DVD+RW disc on other DVD players after this procedure. Therefore apply this function with particular care.<ol style="list-style-type: none"><li><b>1</b> Press OPEN/CLOSE  on the set to open the drawer.</li><li><b>2</b> Insert the disc in the tray, but do not close the tray.</li><li><b>3</b> Press the numerical key 2 on the remote control until the tray closes.<ul style="list-style-type: none"><li>→ The disc is modified.</li></ul></li></ol><ul style="list-style-type: none"><li>○ If this fails to produce the desired result, repeat the procedure pressing the numerical key 3 on the remote control.</li><li>○ To restore the disc to its original condition press the numerical key 1 on the remote control.</li></ul></li></ul>
<b>Other disc errors</b>	<ul style="list-style-type: none"><li>– If playback of a DVD+RW disc is not possible at all, you can try to repair it for new recordings. All existing recordings on the DVD+RW disc will be deleted.<ol style="list-style-type: none"><li><b>1</b> Clean the DVD+RW disc.</li><li><b>2</b> Press OPEN/CLOSE  on the set to open the drawer.</li><li><b>3</b> Insert the DVD+RW disc in the tray, but do not close the tray.</li><li><b>4</b> Keep CLEAR on the remote control pressed until the tray closes.<ul style="list-style-type: none"><li>→ The DVD+RW is repaired for new recordings.</li></ul></li></ol></li></ul>

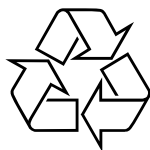


Problem	Solution
<b>Does not play displayed</b>	<ul style="list-style-type: none"> <li>Make sure there is a DVD recording on the disc from which you want to record.</li> <li>Make sure the disc is not scratched or dirty. Replace or clean the disc.</li> </ul>
<b>Does not record</b>	<ul style="list-style-type: none"> <li>Make sure the disc has been inserted, printed side up.</li> <li>The desired TV channel for recording is not stored or a wrong programme number (channel number) has been selected. Check the TV channels stored.</li> <li>Check if the right disc type has been inserted: DVD-Video disc, DVD-R(W), (Super) Video CD, Audio CD, CDR(W), MP3-CD or DVD+R(W).</li> <li>The inserted disc is write protected. Remove the write protection or load another non write protected disc.</li> <li>Parental Control is switched on, see chapter "Access control".</li> <li>An already finalised DVD+R disc has been inserted. Replace it by an unfinalised DVD+R disc.</li> <li>Make sure the correct programme number (channel number) for the DVD recorder system has been selected on the TV set.</li> </ul>
<b>Timer recording does not work</b>	<ul style="list-style-type: none"> <li>Check if the connection cable between DVD recorder system and TV set is properly connected.</li> <li>Make sure the information in the timer block is programmed correctly.</li> <li>Wait until steamed up laser lens has cleaned the write protection or load another non write protected disc.</li> </ul>
<b>No sound</b>	<ul style="list-style-type: none"> <li>Disconnect the headphones.</li> <li>Make sure no finalised DVD+R disc has been inserted.</li> <li>Switch on the selected source or select another source.</li> <li>Make sure the time for VPS/PDC has been entered exactly to the minute.</li> </ul>
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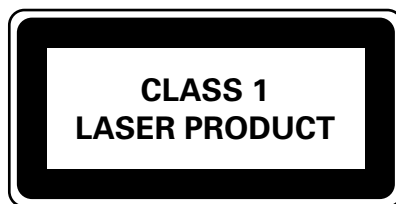




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