DVDR1500

Instructions for use
Mode d'emploi
Instrucciones de manejo

Important! Return your Warranty Registration Card within 10 days. See why inside.

STOP!

Read this manual first!

Congratulations on purchasing this Philips product.
We've included everything you need to get started.
If you have any problems, Philips Representatives can help you get the most from your new product by explaining:

- *Hookups,*
- *First Time Setup, and*
- *Feature Operation.*

Do not attempt to return this product to the store.

For fast help, call us first!
1-800-531-0039

Thank you for making Philips a part of your home!

Let's make things better.

PHILIPS

Return your Warranty Registration card today to ensure you receive all the benefits you're entitled to.

Once your PHILIPS purchase is registered, you're eligible to receive all the privileges of owning a PHILIPS product. So complete and return the Warranty Registration Card enclosed with your purchase at once, and take advantage of these important benefits.

Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your PHILIPS warranty.

Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

Model Registration

Returning your Warranty Registration Card right away guarantees you'll receive all the information and special offers which you qualify for as the owner of your model.

Congratulations on your **purchase,** and welcome to the **"family!"**

PHILIPS

REGISTRATION NEEDED WITHIN 10 DAYS • PHILIPS Hurry! PHILIPS

Dear PHILIPS product owner:

Thank you for your confidence in PHILIPS. You've selected one of the best-built, best-backed products available today. And we'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the PHILIPS "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry.

What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

And most importantly you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome–and thanks for investing in a PHILIPS product.

Sincerely,

Lawrence J. Blanfort

Lawrence J. Blanfort
President and Chief Executive Officer

P.S. Remember, to get the most from your PHILIPS product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!

Know these **safety***symbols*

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, and fully insert.

ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

Important safety instructions

1. Read Instructions - All the safety and operating instructions should be read before the appliance is operated.

2. Retain Instructions - The safety and operating instructions should be retained for future reference.

3. Heed Warnings - All warnings on the appliance and in the operating instructions should be adhered to.

4. Follow Instructions - All operating and use instructions should be followed.

5. Cleaning - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

Exception: A product that is meant for uninterrupted service and that for some specific reason, such as the possibility of the loss of an authorization code for a CATV converter, is not intended to be unplugged by the user for cleaning or any other purpose, may exclude the reference to unplugging the appliance in the cleaning description otherwise required in item 5.

6. Attachments - Do not use attachments not recommended by the video product manufacturer as they may cause hazards.

7. Water and Moisture - Do not use this video product near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

8. Accessories - Do not place this video product on an unstable cart, stand, tripod, bracket, or table. The video product may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the video product. Any mounting of the appliance should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer.

8A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

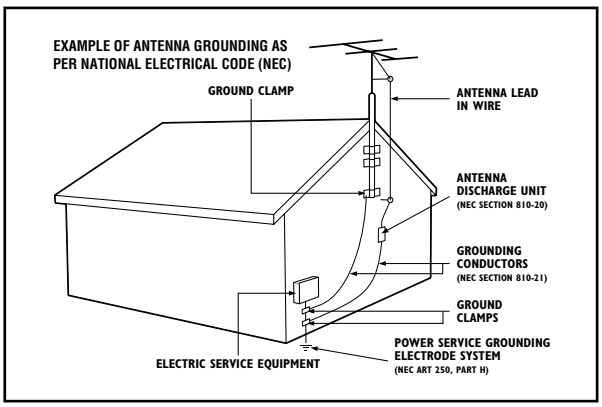
9. Ventilation - Slots and openings in the cabinet are provided for ventilation, to ensure reliable operation of the video product, and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the video product on a bed, sofa, rug, or other similar surface. This video product should never be placed near or over a radiator or heat register. This video product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

10. Power Sources - This video product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance supplier or local power company. For video products intended to operate from battery power, or other sources, refer to the operating instructions.

11. Polarization - This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

12. Power-Cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

13. Outdoor Antenna Grounding - If an outside antenna or cable system is connected to the video product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Fig.A.



14. Lightning - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power surges.

15. Power lines - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

16. Overloading - Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

17. Object and Liquid Entry - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

18. Servicing - Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

19. Damage Requiring Service - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions
a. When the power-supply cord or plug is damaged.
b. If liquid has been spilled on, or objects have fallen into the product.
c. If the product has been exposed to rain or water.
d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
e. If the product has been dropped or the cabinet has been damaged.
f. When the product exhibits a distinct change in performance - this indicates a need for service.

20. Replacement Parts - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or which have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

21. Safety Check - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

22. Carts and Stands - The appliance should be used only with a cart or stand that is recommended by the manufacturer.

23. Heat - The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products that produce heat.

WARNING:

This device complies with Part 15 of the Federal Communications Commission (FCC) (U.S.A.) Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation! This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the supplier or an experienced radio/TV technician for help.

IMPORTANT:

This product was FCC verified under test conditions that included use of shielded cables and connectors between system components. It is important that you use shielded cables to reduce the possibility of causing interference to radios, televisions, and other electronic devices. If you have any problems, contact your supplier.

Any change or modifications to the equipment by the user not expressly approved by the grantee or manufacturer could void the user's authority to operate such equipment.

THIS DIGITAL APPARATUS DOES NOT EXCEED THE CLASS B LIMITS FOR RADIO NOISE EMISSIONS FROM DIGITAL APPARATUS AS SET OUT IN THE RADIO INTERFERENCE REGULATIONS OF THE CANADIAN DEPARTMENT OF COMMUNICATIONS.

CET APPAREIL NUMÉRIQUE N'ÉMET PAS DE BRUITS RADIOÉLECTRIQUES DÉPASSANT LES LIMITES APPLICABLES DANS LA RÈGLEMENT SUR LE BROUILLAGE RADIOÉLECTRIQUES ÉDICTÉ PAR LE MINISTÈRE DES COMMUNICATIONS DU CANADA.

NOTE TO CABLE TV SYSTEM INSTALLER:

This reminder is provided to call the Cable TV (CATV) system installer's attention to Article 820-40 of the NEC (National Electrical Code) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Laser safety

This unit employs a laser. To prevent possible eye injury, only a qualified service person should remove the cover or attempt to service this device.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

LASER	
Type	Semiconductor laser GaAlAs
Wavelength	660 nm (DVD) 780 nm (CD)
Output Power (out of objective)	20 mW (DVD + RW writing) 0,8 mW (DVD reading) 0,3 mW (CD reading)
Beam divergence	60 degrees.

CAUTION VISIBLE AND INVISIBLE LASER RADIATION. WHEN OPEN AVOID EXPOSURE TO BEAM. (WARNING LOCATION: INSIDE ON LASER COVERSHIELD)

CAUTION ⚠ ONLY QUALIFIED SERVICE PERSONNEL SHOULD REMOVE THE COVER OR ATTEMPT TO SERVICE THIS DEVICE.

For Customer Use:

Read carefully the information located on the back of your DVD recorder and enter below the Serial No. Retain this information for future reference.

Model No. DVDR1500
Serial No. _____

English 8

Français x

Español x

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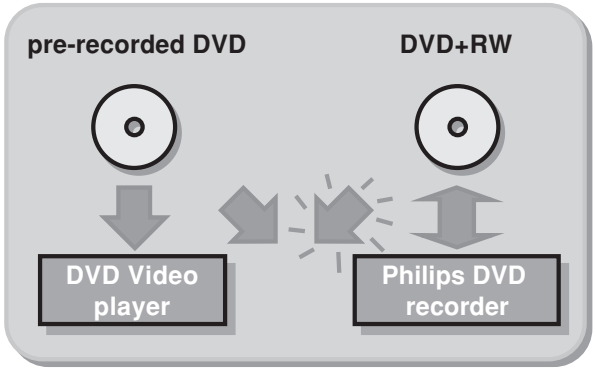
Introduction

DVD Recorder

DVD (Digital Versatile Disc) is the new storage medium that combines the convenience of the Compact Disc with the latest advanced digital video technology.
DVD Video uses state-of-the-art MPEG2 data compression technology to register an entire movie on a single 5-inch disc. DVD's variable bitrate compression, running at up to 9.8 Mbits/second, captures even the most complex pictures in their original quality.
The crystal-clear digital pictures have a horizontal resolution of over 500 lines, with 720 pixels (picture elements) to each line. This resolution is more than double that of VHS, superior to Laser Disc, and entirely comparable with digital masters made in recording studios.

DVD+ReWritable (DVD+RW) is the next step in video technology. DVD+RW uses phase-change media, the same technology that formed the basis for CD-ReWritable. A high-power laser is used to change the reflectivity of the recording layer. This process can be repeated more than a thousand times.

Your Philips DVD Recorder is a **Recorder** and **player** for digital video discs, with a **two-way compatibility** to the universal DVD Video standard. This means that:
- existing **pre-recorded DVD Video** discs can play on your Philips DVD Recorder and
- **recordings**, made on your Philips DVD Recorder, can play on existing DVD Video players and DVD-ROM drives.



With it, you will be able to record TV programs or edit and archive your own camcorder recordings.
Superb digital picture and sound quality, quick access to the tracks you have recorded and extensive playback features contribute to a completely new video experience.

From now on you will enjoy full-length movies with true cinema picture quality and stereo or Multi-channel sound (depending on the disc and on your playback set-up).You will find your Recorder remarkably easy to use, with the on-screen display, Recorder display and remote control.

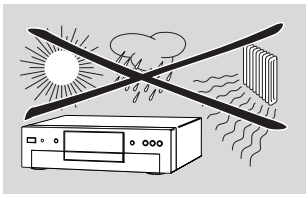
Box contents

First check and identify the contents of your DVD Recorder package, as listed below:
- DVD Recorder
- Pronto Pro remote control with accessories. Refer to separate instructions for use.
- 2-core power cord
- Component video cable
- S-Video cable
- Antenna cable
- Audio cable (2x)
- Video cable
- DVD+RW disc
- Instructions for use
- Warranty card

If any item is damaged or missing, please inform your supplier without delay.

Keep the packaging materials; you may need them to transport your Recorder in the future.

Placement



- Place the Recorder on a firm, flat surface.
- Keep the DVD Recorder away from domestic heating equipment and direct sunlight.
- In a cabinet, allow about 2.5 cm (1 inch) of free space all around the Recorder for adequate ventilation.
- Always keep the disc tray closed to avoid dust on the lens.
- The lens may cloud over when the DVD Recorder is suddenly moved from cold to warm surroundings. Playing or recording a disc is not possible then. Leave the DVD Recorder in a warm environment for two hours before use, so the moisture can evaporate.

Cleaning discs

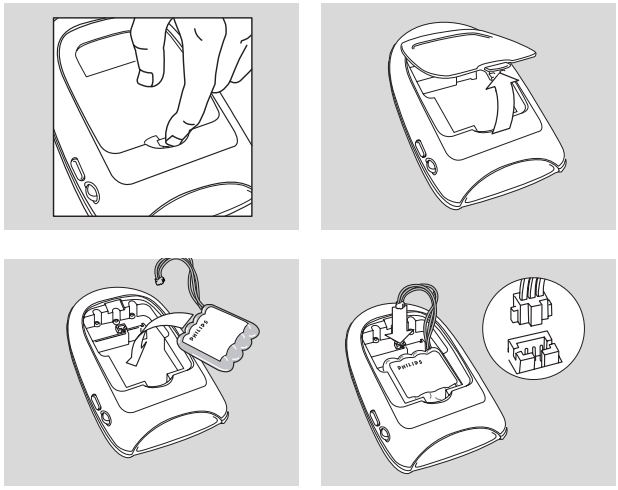
Some problems occur because the disc inside the Recorder is dirty. To avoid these problems, clean your discs regularly in the following way:

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc in a straight line from the center out to the edge.

Caution:
Do not use solvents such as benzine, thinner, commercially available cleaners, or anti-static spray intended for analog discs.
Do not use commercially available cleaning discs to clean the lens, as these discs may damage the optical unit.

Remote control

Loading the batteries



- Remove the battery compartment cover.
- Insert two 'AA' (LR-6) batteries as indicated inside the battery compartment.
- Replace the cover.

Caution:
Do not mix old and new batteries. Never mix different types of batteries (standard, alkaline, etc.). This may reduce the lifetime of the batteries.

Installation

Connections - back of your DVD Recorder

- Please refer to your TV, VCR, Stereo and any other User Manual(s) as necessary to make the optimal connections.
- Do not connect the power cards until all other connections are made.
- Do not connect your DVD Recorder to your TV via your VCR. The video quality could be distorted by the copy protection system.
- For better sound, connect the Recorder's audio outputs to your amplifier, receiver, stereo system or A/V equipment. See 'Connecting to an A/V receiver or A/V amplifier.'

Caution:
Do not connect the Recorder's audio output to the phone input of your audio system. This could damage your equipment.

Step 1: Connecting to the antenna or Cable TV signal

- Remove the antenna cable from your TV and connect it to the ANTENNA jack at the back of the DVD Recorder.
- Connect one end of the antenna cable supplied ***(1)*** to the TV jack on the DVD Recorder and the other end to the antenna input jack on your TV.

The antenna connection transmits TV channels through the Recorder to the TV, you still need a video connection to sent DVD playback from the Recorder to the TV. See 'Connecting to a TV.'

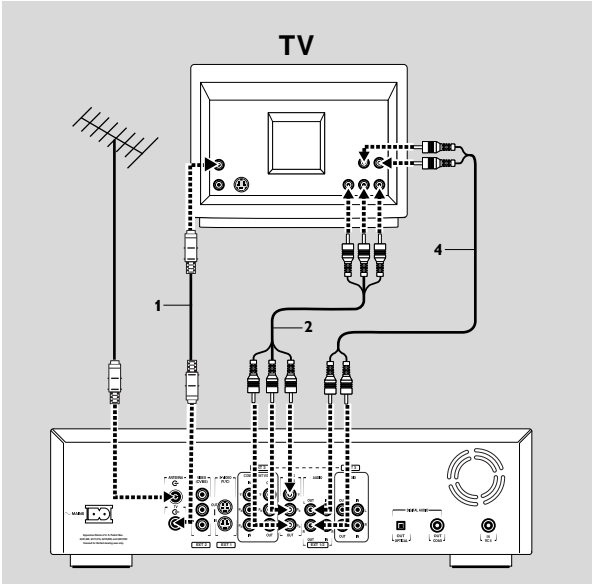
Step 2: Connecting to a TV

To obtain the highest possible picture and sound quality from your TV, use the Progressive Scan video jacks on the DVD Recorder and TV.

Progressive Scan connection

- Connect the PROG SCAN OUT (YP_BP_R) jacks on the Recorder to the corresponding IN jacks on the TV, using the Component Video cable supplied ***(2)*** as shown in the drawing.
- Connect the audio Left (white) and Right (red) OUT jacks on the Recorder to the corresponding AUDIO IN jacks on the TV using the audio cables supplied ***(4)***.

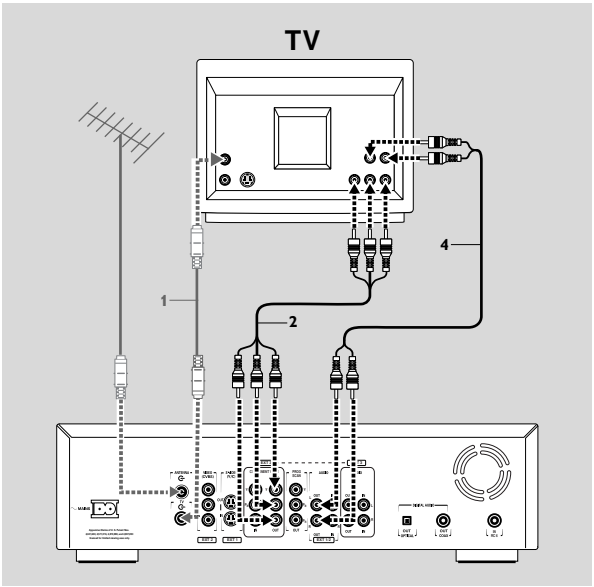
Note:
The PROG SCAN OUT jacks do not carry Closed Captioning or V-chip signals. These features will not be available if you use the Progressive Scan connection.



Component Video (YP_BP_R) connection

If your TV does not have Progressive Scan connect the DVD Recorder with the Component Video jacks.

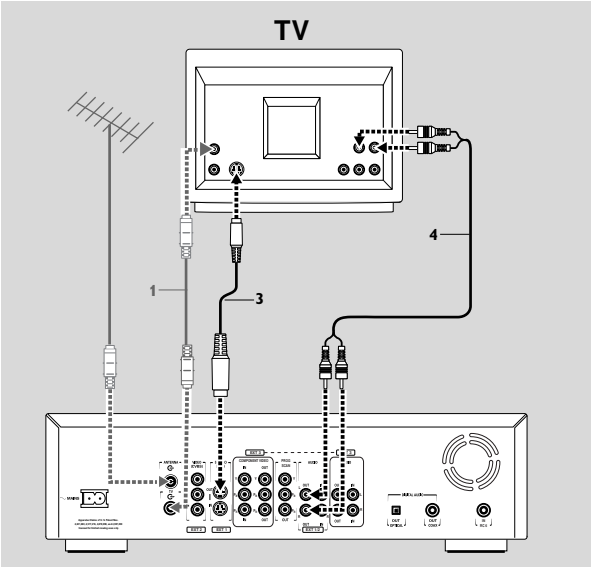
- Connect the COMPONENT VIDEO (YP_BP_R) OUT jacks to the corresponding IN jacks on the TV, using the Component Video cable supplied ***(2)*** as shown in the drawing.
- Connect the AUDIO Left (white) and Right (red) OUT jacks to the corresponding AUDIO IN jacks on the TV using the audio cable supplied ***(4)***.
- Do not connect a Progressive Scan video source to the Component Video IN jacks on your TV.



S-Video (Y/C) connection

If your TV is not equipped with COMPONENT VIDEO inputs, connect the DVD Recorder with the S-Video (Y/C) jacks.

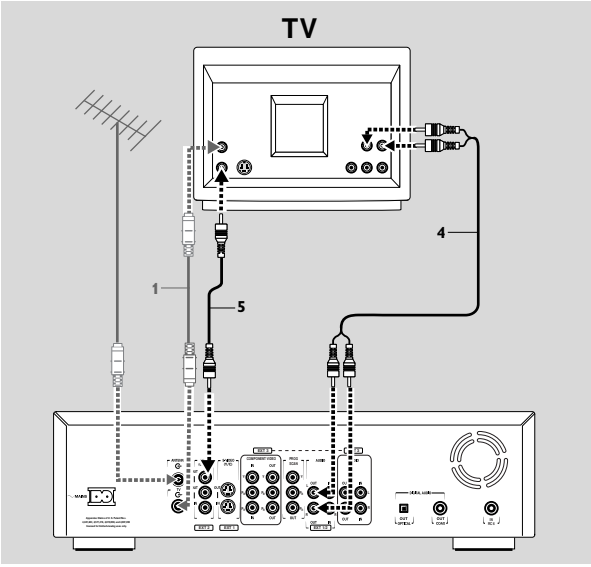
- Connect the S-Video (Y/C) OUT jacks to the corresponding IN jacks on the TV, using the S-Video cable supplied ***(3)*** as shown in the drawing.
- Connect the AUDIO Left (white) and Right (red) OUT jacks to the corresponding IN jacks on the TV using the audio cable supplied ***(4)***.



Video (CVBS) connection

If your TV is not equipped with S-Video jacks, then connect the DVD Recorders VIDEO (CVBS) jack to your TV.

- Connect the VIDEO (CVBS) OUT jacks (yellow) to the corresponding IN jacks on the TV using the video cable supplied ***(5)*** as shown in the drawing.
- Connect the AUDIO Left (white) and Right (red) OUT jacks to the corresponding IN jacks on the TV using the audio cable supplied ***(4)***.



Step 3: Connecting to audio equipment

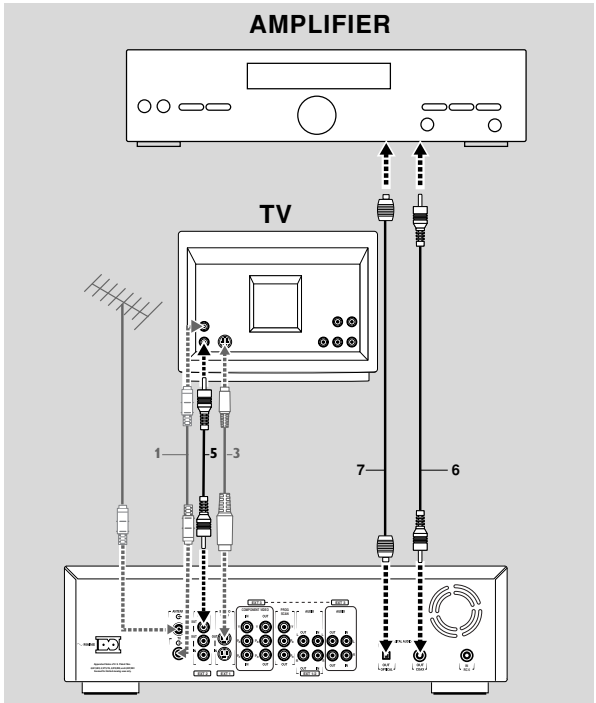
Connecting to an A/V receiver or A/V amplifier with a digital Multi-channel decoder

The best possible sound quality is obtained by connecting your DVD Recorder to an Audio/Video receiver with Multi-channel decoder (Dolby Digital, MPEG 2 and DTS).

Digital Multi-channel sound
A digital Multi-channel connection provides the optimum sound quality. For this you need a Multi-channel A/V receiver that supports one or more of the audio types supported by your DVD Recorder (MPEG 2, Dolby Digital and DTS). Check the receiver manual and the logos on the front of the receiver.

- Connect one of the DVD Recorder's DIGITAL AUDIO OUT jacks to the corresponding IN jacks on the receiver. Use a digital coaxial cable ***(6)*** or a digital optical audio cable ***(7)***.
  If you do not have a digital coaxial audio cable, you may use the supplied yellow video cable.

Note:
If you use a connection that does not match the capabilities of your receiver, the receiver will produce a strong, distorted sound. The audio type of the current DVD disc will appear in the Status Window when you change the language. Six Channel Digital Surround Sound via digital connection can only be obtained if your receiver has a Digital Multi-channel decoder.



If you cannot connect your DVD Recorder to an A/V receiver with Multi-channel decoder, choose one of the following alternatives.

Connecting to a receiver equipped with two channel digital stereo (PCM)

- Connect one of the the Recorder's DIGITAL AUDIO OUT jacks to the corresponding IN jacks on your receiver. Use the supplied yellow video (CVBS) cable or an optional digital optical audio cable.
- After installation set Digital Output to PCM only the DVD Recorder's digital OUT jacks (see 'User Preferences.')

Connecting to a receiver equipped with Dolby Pro Logic

- Make a video connection between the DVD Recorder and the TV.
- Then connect the Recorder's Left and Right AUDIO OUT jacks to the corresponding inputs on the Dolby Pro Logic Audio/Video receiver, using the audio cable supplied ***(4)***.
- Make the appropriate Sound settings for Analog Output in the user preferences menu.

Connecting to a TV with a Dolby Pro Logic decoder

- Connect the Recorder to the TV as described in chapter 'Connecting to a TV .'

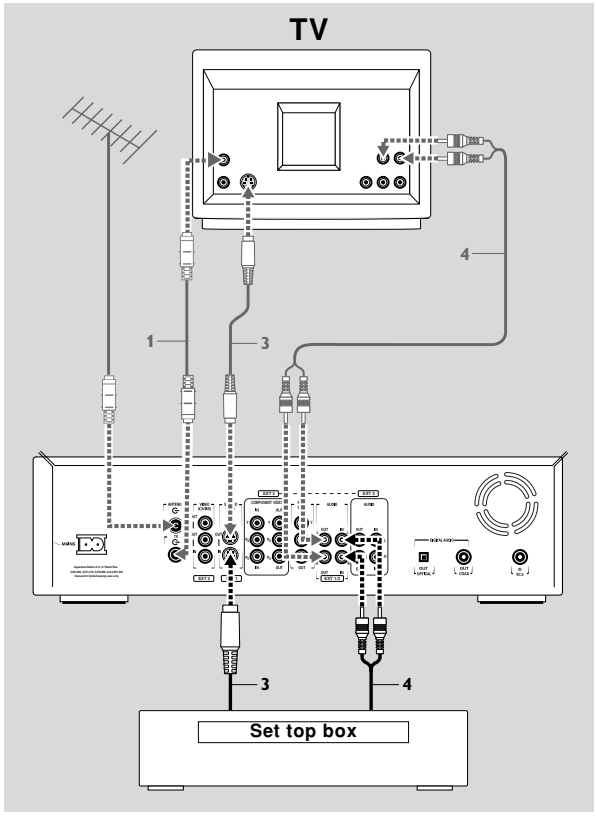
Connecting to a receiver with two channel analog stereo

- If you have a receiver with only two-channel analog stereo and none of the above mentioned sound systems, connect the audio Left and Right AUDIO OUT jacks of the DVD Recorder to the corresponding AUDIO IN jacks on your receiver, amplifier or stereo system. Use the audio cable supplied ***(4)***.

Step 4: Connecting to other equipment (optional)

To connect other devices to the Recorder, use the available IN jacks on the back of the Recorder.

-Set top box
-VCR
-DVD Video player
Most pre-recorded video cassettes and DVD discs are copy protected. If you try to copy them, the DVD Recorder display will show 'COPY PROTECT.'



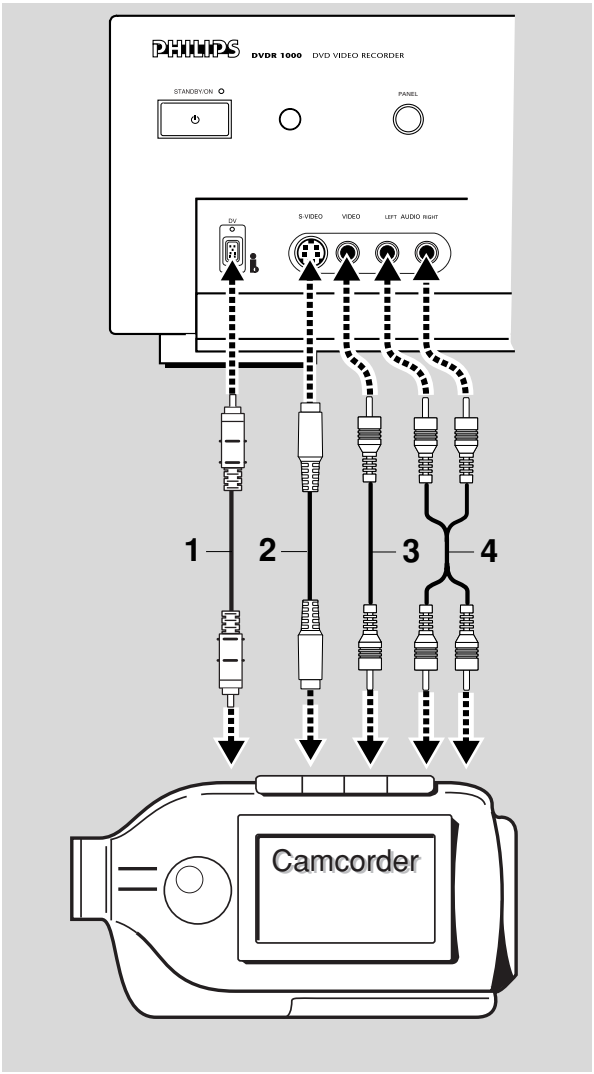
Do not connect a Progressive Scan video source to the COMPONENT VIDEO IN jacks (EXT3). The DVD Recorder cannot record Progressive Scan video signals.

Remember, connect the DVD Recorder directly to the TV. For example, do not connect the Recorder to a VCR, then connect the VCR directly to the TV. If you are not using the DVD Recorder, turn off its power to avoid interfering with VCR playback, for example.

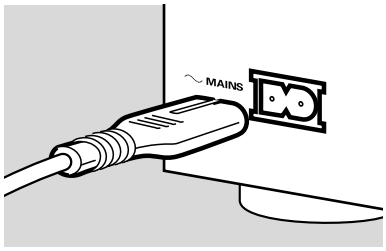
Step 5: Connections - Front of your DVD Recorder (optional)

Camcorder connection

- If you have a DV or Digital 8 camcorder, connect the DVD Recorder's i-link DV input jack on the Recorder ***(1)*** to the corresponding output jack on the camcorder using the i-link cable of your camcorder.
- If you have a Hi-8 or S-VHS(C) camcorder, connect the DVD Recorder's S-VIDEO IN jacks on the DVD Recorder to the corresponding OUT jacks on the camcorder. Use the S-Video cable supplied ***(2)***.Then connect the AUDIO Left (white) and Right (red) IN jacks of the DVD Recorder to the corresponding OUT jacks on the camcorder using the AUDIO cable supplied ***(4)***.
- Otherwise, connect the VIDEO IN jacks on the DVD Recorder (yellow) to the corresponding OUT jacks on the camcorder. Use the video cable supplied ***(3).*** Then connect the AUDIO Left (white) and Right (red) IN jacks of the DVD Recorder to the corresponding OUT jacks on the camcorder using the AUDIO cable supplied ***(4)***.



Step 6: Power supply



- Make sure all necessary connections are made before connecting the DVD Recorder to the power supply.
- Plug the supplied power cable into the Power jack on the back of the Recorder.
- Connect the power card to an AC outlet.

Note:
Make sure the local power voltage matches the required 110V.
When the Recorder is in the 'standby/power off' position, it is still consuming some power.
If you wish to disconnect your DVD Recorder completely from power, remove the power cord from the AC Outlet.
When the DVD Recorder is disconnected from the power, TV channels and timer data usually will be stored one year.

First time setup: Initial setup

After switching on the DVD Recorder for the very first time, the 'Initial setup screen' will appear. In initial setup, you may have to set your preferences for some of the Recorder features. If the initial setup screen does not appear, your DVD Recorder has been installed already. You may still change the preferences via the 'installation menu.'

Notes:
Preferences have to be set in the order in which the item menus will appear on the screen.
The 'Initial setup' will only be concluded after the preferences for the last item have been confirmed.
If the Recorder is switched off while setting user preferences, all preferences have to be set again after switching on the Recorder again.

Manual setting

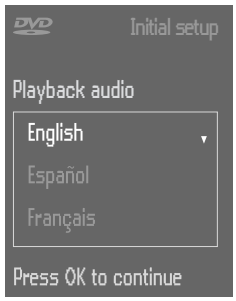
When a menu is displayed:

- Use the ▽/△ (down or up cursor) buttons to go through the options in the menu. The selected option will be highlighted in white text.
- Use **OK** to confirm your selection and move to the next menu.

The following items may be set in Initial setup:

Menu language
The DVD Recorder's system menus of the DVD Recorder will be displayed in the language you choose.

Audio language
The disc sound will be in the language you choose, if it is available on the current disc. If not, speech will revert to the first spoken language on the disc. Also, the DVD disc menu will be in the language you choose, if it is available on the disc.

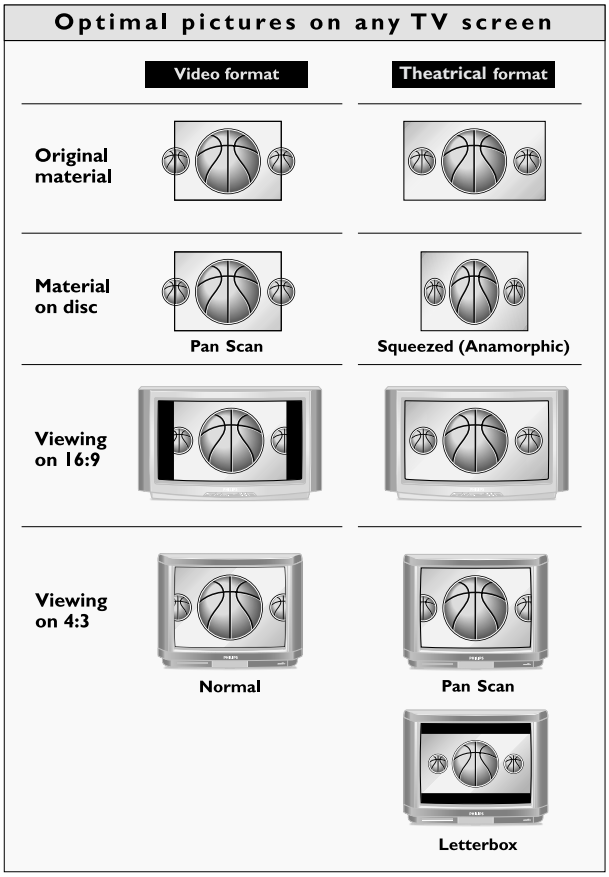


Subtitle language
The subtitles will be in the language you choose if is available on the current disc. If not, there will be no subtitles, or the subtitles will revert to the first subtitle language on the disc.

TV Shape

You can choose:

- **16:9** if you have a wide screen (16:9) TV.
- **4:3** if you have a regular (4:3) TV. In this case you can also choose between:
  - **Letterbox** for a 'wide-screen' picture with black bars at the top and bottom,
  - **Pan Scan**, for a full-height picture with the sides trimmed. If a disc has Pan Scan, the picture moves (pans) horizontally to keep the main action on the screen.



Automatic TV Channel Search

Make sure the antenna is connected to the DVD Recorder. See 'Connecting to the antenna'. Your DVD Recorder will search for all TV channels that are available in your area.

It stores channels in the order in which they are found.

- Press **OK** to confirm.
  ➤ Automatic search and installation starts. This can take several minutes.

➤ When Automatic search and installation is complete '**Autom. search complete - XXX channels found**' appears on the TV screen.

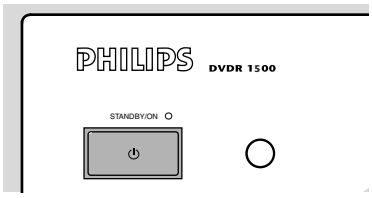
Initial setup is now complete. You can still adjust the settings. See 'User preferences.'

Quick start

Recording and playback are the basic functions of your DVD Recorder. In this chapter the elementary operations for recording or playing a disc are presented separately for quick reference purposes.
Detailed information on different modes, settings and features can be found in the chapter 'Operation'.

Switching on

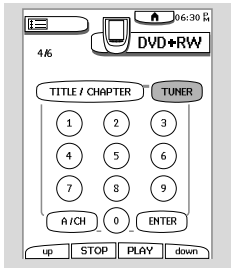
- Switch on the TV and select the TV's Video In channel (see operation manual for your TV).
- Press ⏻ **STANDBY/ON** to turn on the Recorder. The initial setup will appear the very first time you turn on the Recorder. See initial setup.
- Make sure the clock is set. See 'Installation - time/date adjustment.'



Manual recording

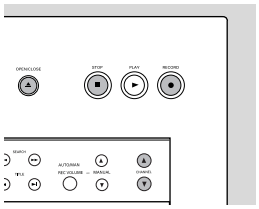
Checking input

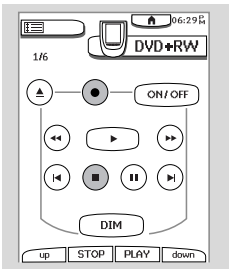
Normally, the DVD Recorder displays the contents of the current disc on the screen. However, if you want to view TV channels, press the **TUNER** button so that TV programming appears on the TV.
Make sure your TV is on the correct Video In channel. Press **TUNER** again to return to disc viewing only at the Recorder.

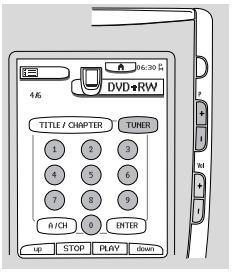


Recording

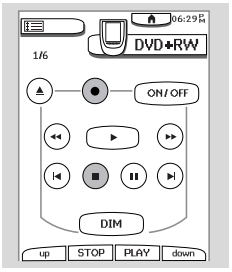
1 Press ▲ **OPEN/CLOSE** to open the disc tray.
2 Insert a recordable DVD+RW disc. Press ▲ **OPEN/CLOSE** to close the disc tray.
3 Press **TUNER** to see TV channels through the DVD Recorder.
4 Press **CHANNEL ▲** or **CHANNEL ▼** (on the Recorder) or **P+**, **P-** or the digit buttons **0-9** (on the remote control) to select the channel you wish to record.
5 Press **RECORD**.
➤ '**RECORD**' shows on the display.
6 Press ■ **STOP** to stop recording.
➤ '**RECORD**' flashes on the display.

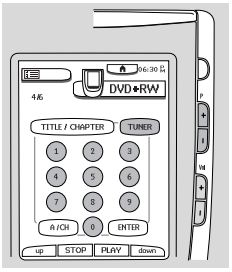






Recording with automatic switch-off (OTR One-Touch Recording)





1 Insert a recordable DVD+RW disc.
2 Press **TUNER** to see TV channels through the DVD Recorder.
3 Use **CHANNEL ▲** or **CHANNEL ▼** (on the Recorder) or **P+**, **P-** or the digit buttons **0-9** (on the remote control) to select the channel you wish to record.
4 Press **RECORD** twice.
➤ The end time of the recording shows in the timer box on the TV screen. The remaining recording time shows in the status box on the TV screen and on the display.

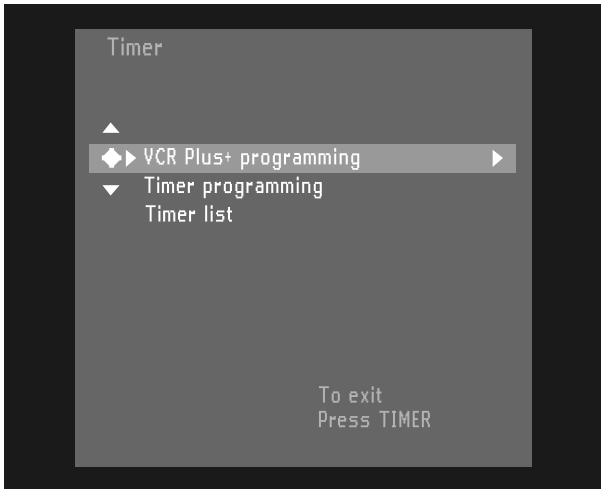
5 Press **RECORD** repeatedly to set up long recordings in 30 minutes increments, up to four hours.
6 Or, press the ■ **STOP** button to stop recording.

Timer programming

Timer programming with 'VCR Plus+'

A PlusCode is a number of up to eight digits, printed in most TV guides next to the start time of a TV program. It contains all the information you need for programming a timer.

1 Press **TIMER** on the remote control.
2 Select '**VCR Plus+ programming**' with ▽/△ (down or up cursor.)



3 Press ▷ (right cursor).

4 Use the **0-9** digit keys to enter the entire PlusCode number from your TV guide. If you make a mistake, you can erase it with **CLEAR**.
5 Press **OK** to confirm.
➤ Information about the timer will appear on the TV screen. If information is missing or not available, you may be asked to enter more information. Follow the instructions given on the screen.
6 Confirm with the **OK** button.
➤ The data is stored in a timer block.
7 To finish, press **TIMER** then **SYSTEM MENU**.
8 Make sure you insert a DVD+RW disc that does not have erase protection. If you insert a disc with erase protection, recording will be refused.
9 Switch off the Recorder by pressing ⏻ **STANDBY/ON** so that the red standby light appears. The Recorder must be off for a timer recording to occur.

Timer programming without VCR Plus+

1 Press **TIMER** on the remote control.
2 Select '**Timer programming**' with ▽/△ (down or up cursor.)
3 Press ▷ (right cursor).

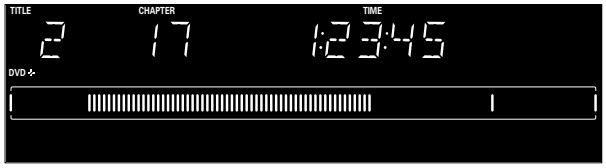
4 Enter the month and the date with ▽/△ (down or up cursor,) or with the digit keys **0-9**.
5 Press ▷ (right cursor) to move to CH. (channel).
6 Enter the channel number you want to record using ▽/△ (down or up cursor.) or **0-9**.
7 Press ▷ (right cursor) to move to Start.
8 Enter the Start time you want to record using ▽/△ (down or up cursor.) or **0-9**.
9 Press ▷ (right cursor).
10 Enter the End time you want to record using ▽/△ (down or up cursor.) or **0-9**.
11 Press ▷ (right cursor) to move to Record Mode.
12 Select the recording mode with ▽/△ (down or up cursor): HQ (1 hour per disc, SP (2 hours), LP (3 hours) or EP (4 hours).
If you make a mistake, you can go back with ◁ (left cursor).
13 Press **OK** to confirm.
➤ The data has been stored in a timer block.
14 To finish, press **TIMER** repeatedly to remove all the menus.
➤ Make sure you insert a DVD+RW disc without erase protection. If you insert a disc with erase protection or a locked disc, recording will be refused.
15 Switch off the power with ⏻ **STANDBY/ON**.

For additional timer programming information (see "Timer programming".) Use **SELECT** to record the program at daily or weekly intervals.
Mo-Fr: Record every day from Monday to Friday.
Weekly: Recording at the same day of the week, every week, for example every Thursday.

Playing a pre-recorded DVD-Video disc

1 Insert a pre-recorded DVD-Video disc.
➤ When 'Autoresume' is '**On**' (see 'User Preferences') playback starts automatically from the point at which it stopped, the last time the disc played.
➤ When 'Autoresume' is '**Off**' the disc will play from the start of the disc. You can resume play from the point at which you it stopped the last time by pressing ▶ **PLAY** shortly. While resume appears in the top left corner of the TV screen. When pressing ▶ **PLAY** at beginning of disc playback an "X" may show on the screen

2 The disc may invite you to select an item from a menu. If the selections are numbered, press the appropriate numerical button; otherwise use the ▽/△ (down or up cursor) or ◁/▷ (left or right cursor) buttons to highlight your selection, then press **OK**.
➤ The currently playing title and chapter number appear on the Recorder display. The elapsed playing time is shows in the Recorder display.



3 To stop playback at any time, press ■ **STOP**.

Playing a recordable DVD+RW disc

- Insert a recordable DVD+RW disc.
  ➤ If the disc is a new blank disc, the display will show '*EMPTY DISC*.'
  ➤ If the inserted disc is erase-protected, playback starts automatically.
- When you press ▶ **PLAY**, playback starts from the point it stopped the last time the disc played or recorded. If you want to start playback from the beginning of the disc, you can do so via the Index Picture Screen (see 'Index Picture Screen'). To choose a new Title for playback in the Index Picture Screen, press ▽/△ (down or up cursor) to choose the beginning of a Title, then press **OK** or ▶ **PLAY**. Playback will begin.
- With ⏮ **PREVIOUS** and ⏭ **NEXT** you can go to the previous title, the beginning of the current title, or next title during playback.
- To stop playback at any time, press ■ **STOP**.

➤ You return to the Index Picture Screen.

Functional overview

Front of Recorder

⏻ STANDBY/ON
- switches the Recorder On or to standby mode (off)

Standby indicator
- lights red when the Recorder is in standby mode; player is not operable
- lights green when the Recorder is operable

PANEL
- press to open and close the door that cover additional buttons and jack on the front of the Recorder

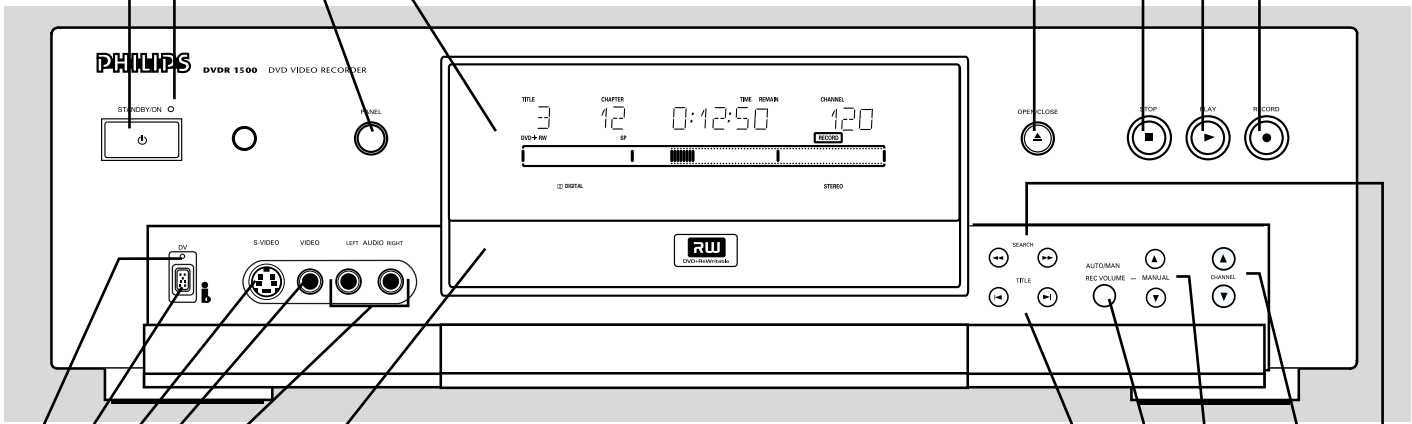
DISPLAY
- displays the current status of the Recorder

● RECORD
- recording of the selected channel or source

▶ PLAY
- starts disc play

■ STOP
- stops disc playback or recording

▲ OPEN/CLOSE
- opens/closes the disc tray



Disc tray

*AUDIO In (Left/Right)
- Audio left/right input jack to connect a camcorder or video Recorder

*VIDEO In (CVBS)
- Video input jack to connect a camcorder or video Recorder

*S-VIDEO In
- Video input jack to connect a camcorder or video Recorder

*DV
- Audio/Video input jack to connect a digital camcorder

*DV-indicator
- Lights red when the DV input is active

*TITLE
- ⏮ selects previous title /chapter/track/index or beginning of current title/chapter/track/index
- ⏭ selects next title/ chapter/track/index

*AUTO/MAN REC VOLUME
- to adjust the recording volume level automatically or manually

*MANUAL
- ▲ ▼ to increase/decrease the recording volume level

*CHANNEL
- to select TV channels manually When the Recorder is in Tuner mode.

*SEARCH
- ◀◀ search backward during disc playback
- ▶▶ search forwardduring disc playback

* Located behind panel, press the panel button for access.

Back of Recorder

MAINS
- connection to the power outlet

TV
- RF connection to TV (does not carry the video output signal of the Recorder)

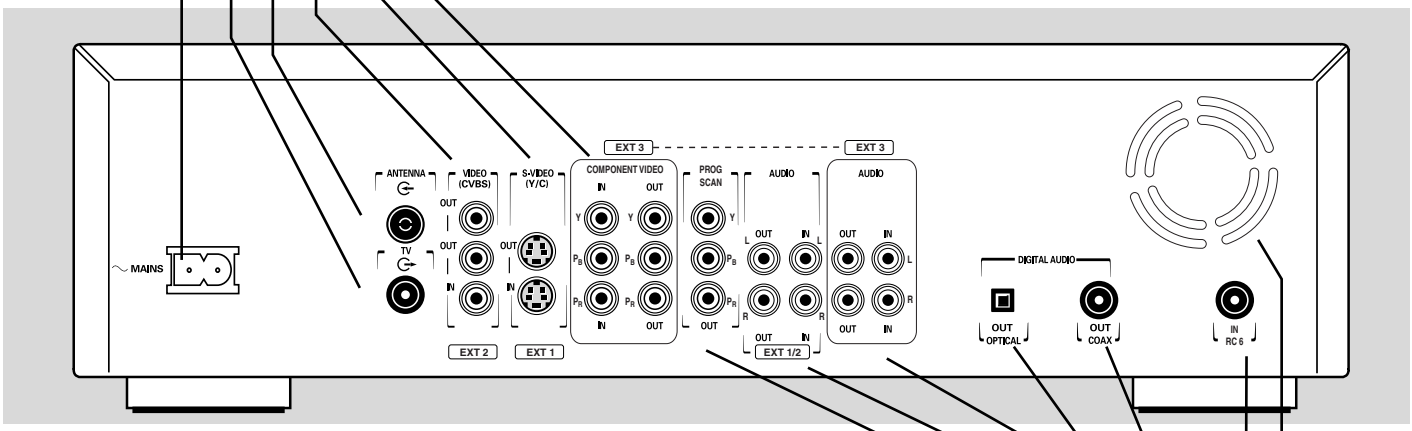
ANTENNA
- RF connection to antenna/cable TV signal

VIDEO (CVBS)
- 2 x OUT: for connection to a TV, receiver or amplifier with CVBS video inputs
- IN: for connecting a video source with CVBS outputs

S-VIDEO (Y/C)
- OUT: for connection to a TV, receiver or amplifier with S-Video (Y/C) inputs
- IN: for connecting a video source with S-Video (Y/C) outputs

COMPONENT VIDEO (YP_BP_R) OUT
- for connection to a TV, receiver or amplifier with component video (YP_BP_R) inputs

COMPONENT VIDEO (YP_BP_R) IN
- for connection to a source with component video (YP_BP_R) outputs



PROG SCAN (Progressive Scan)
- for connection to a TV with progressive scan (480p) input

AUDIO OUT L/R
- connection to an amplifier, receiver, stereo system or to a TV

AUDIO IN L/R
- connection to the audio output of a video source of which the video output is connected to the rear CVBS video input (EXT2) or to the rear S-Video input (EXT 1)

AUDIO OUT L/R
- connection to an amplifier, receiver, stereo system or a TV

AUDIO IN L/R
- connection to the audio output of a video source of which the video output is connected to the component video input (EXT3)

OUT OPTICAL
- connection to an amplifier, receiver or stereo system with a digital (optical) audio input

OUT COAX (coaxial)
- connection to an amplifier, receiver or stereo system with a digital (coaxial) audio input

IN RC6
- for connection to a media control system

VENTILATION OPENINGS
- allow the DVD Recorder to cool. Do not block the vents. Leave at least one inch space free around the vents

Display

DVD
- DVD Video disc inserted

DVD+RW
- DVD+Rewritable disc inserted

TITLE
- Current DVD title number

TRACK
- Current VCD/CD track number

VCD
- Video CD inserted not available to check

CD
- Audio CD inserted

SVCD
- Super Video CD inserted not available

HQ - SP - LP - EP
- Selected recording mode: High Quality, Standard Play, Long Play or Extended Play

CHAPTER
- DVD chapter number

CHANNEL
- Current channel number

RECORD
- Recording in progress

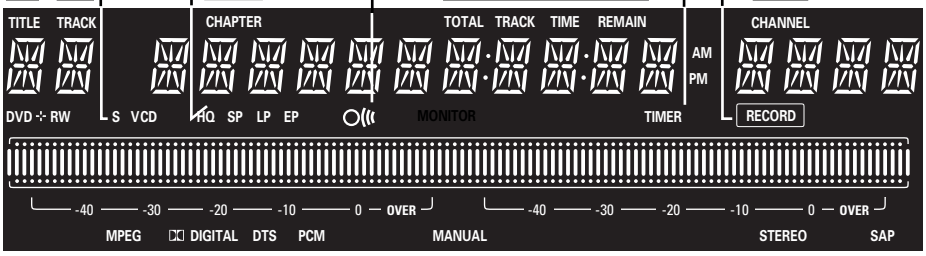
TIMER
- A Timer is programmed or active

TRACK TIME
- Track time in minutes and seconds

TOTAL TIME
- Total playback or recording time in hours, minutes and seconds

TIME REMAIN
- Total remaining playback or recording time in hours, minutes and seconds

- Remote Control command received



STEREO
- The current channel is broadcasting in stereo.

SAP
- A second audio program is available on the current channel.

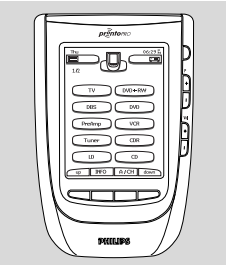
dB scale
- indicates recording volume when using manual controls

Disc bar
- Displays disc content, recording level or formatting progress

MANUAL
- Appears when you manually adjust the recording level.

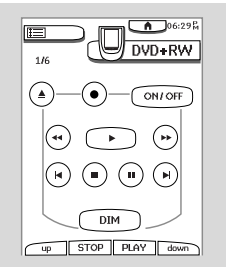
MPEG - DIGITAL - DTS - PCM
- Active audio format

Remote control



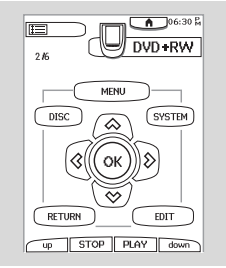
MUTE
- TV Mute ON/OFF
P +/–
- change TV channel up/down
+/–
- TV volume up/down
UP

INFO
A/CH ALTERNATE CHANNEL
- switches to previous TV channel
DOWN



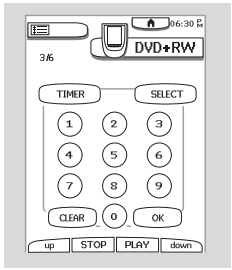
▲ OPEN/CLOSE
- opens/closes the disc tray
● RECORD
- direct recording of the currently selected program channel
ON / OFF
-Turn on or off the DVD Recorder power

◀◀ REVERSE
- search backward on a disc during playback
▶ PLAY
- begin disc playback
▶▶ FORWARD
- search forward on a disc during playback
|◀ PREVIOUS
- select a previous chapter, track or title
■ STOP
- stop playback or recording
II PAUSE
- pause playback or recording, press repeatedly for step-by-step disc playback
▶| NEXT
- skip to next chapter, track or title
DIM
- changes the brightness of the display panel



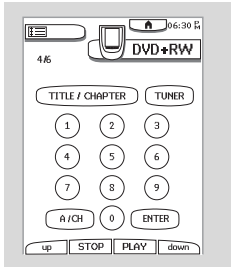
DISC MENU
- displays DVD disc menu or Index Picture Screen for a DVD+RW
SYSTEM MENU
- displays Recorder system menu bar
▽ △ ▷ ◁
- move cursor down/up/right/left

OK
- acknowledge menu selection
RETURN
- go back to previous menu step
EDIT
- displays edit menu for DVD+RW disc during playback

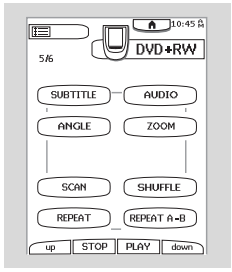


TIMER
- displays the Timer menu
SELECT
- switches between different values in a menu
0-9
- numerical keys to enter information or select channels

CLEAR
- delete last entry/clear a Timer
OK
- acknowledge menu selection

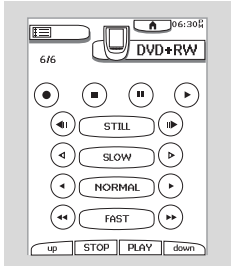


TITLE/CHAPTER
- select title
- select chapter
TUNER
- switches between disc mode and tuner mode



SUBTITLE
- select subtitle language on a DVD
AUDIO
- select audio language on a DVD
ANGLE
- select DVD camera angle on A DVD
ZOOM
- enlarge video image on a DVD

SCAN
- play the first 10 seconds of each chapter within a title (DVD) or the first 10 seconds of each track on a disc (VCD/CD) or each Title on a DVD+RW.
SHUFFLE
REPEAT
- repeat chapter, track, title, disc
REPEAT A-B
- repeat a specific sequence



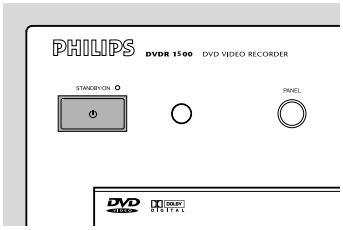
◀ II STILL
- still picture reverse
STILL II ▶
- still picture forward
◀| SLOW
- slow motion reverse
SLOW |▶
- slow motion disc playback

◀ NORMAL
- play backward
NORMAL ▶
- begin disc playback

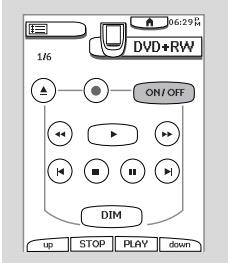
Operation

Important notes for operation

You can switch on the DVD Recorder with the ⏻ **STANDBY/ON** button on the front of the Recorder. Keep your DVD Recorder connected to the power outlet at all times to ensure programmed recordings can be made.



You can use the ⏻ **STANDBY/ON** or ⏻ **ON/OFF** button on the remote control to interrupt a function. When you have an operating problem, you can interrupt the function and start again.



Loading discs

1 Press ▲ **OPEN/CLOSE**. The disc tray opens.
2 Lay your chosen disc in the tray, label side up. If the disc is two side, make sure the label of the side you want to play is facing up.
Make sure it is sitting properly in the correct recess.
3 Press ▲ **OPEN/CLOSE** to close the tray.
➤ 'READING' appears on the Recorder display. If the disc is pre-recorded or erase-protected, playback will start automatically.

You can unload a disc by pressing ▲ **OPEN/CLOSE** again or by pressing or hockling ■ **STOP** for two seconds.

Note: If 'Child Lock' is 'On' and the disc inserted is not in the 'child safe' list (not authorized), the PIN code must be entered and/or the disc has to be authorized. (see 'Access Control')

Disc types

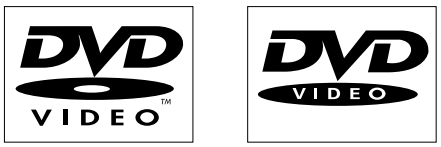
You will recognize the different types of discs that can be used in your DVD Recorder by the logo. Depending on the disc type you can either use it for recording and playback or playback only. Some discs are not suitable to be used in the DVD Recorder at all.
The following information summarizes existing disc types and their DVD Recorder compatibility.

Discs for recording and playing:

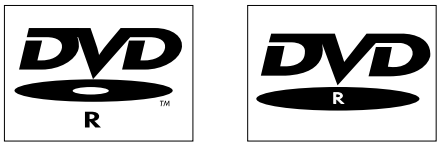
DVD+RW
Records and playing. In case of a new blank disc, after the first recording, some more time (up to two minutes) is needed by the Recorder to automatically make the disc compatible with DVD video players.

Discs for playing only:

DVD-Video



DVD-R (DVD-Recordable)
These play only if they contain DVD-Video.



DVD-RW
Plays only if it is recorded in Video mode and has been finalized.

CD Digital Audio
You can play digital audio CDs in conventional style through a stereo system, using the buttons on the remote control and/or front panel of the DVD Recorder.

Super Audio CD
Of hybrid SACD discs, the CD layer can play.

(Super) Video CD
Depending on the material on the disc (a movie, video clips, a drama series, etc.), these discs may have one or more tracks. Tracks may have one or more indexes as indicated on the disc case. To make access easy and convenient, your Recorder lets you move between track and indexes.

CD-R (CD Recordable)
These play only if they contain Audio CD material.

CD-RW (CD Rewritable)
These play only if they contain Audio CD material.

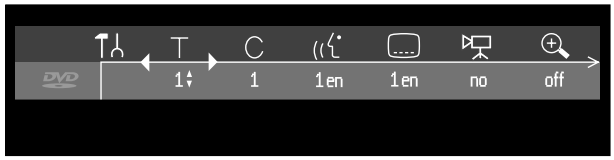
Discs unsuitable for recording or playing:

DVD-RAM

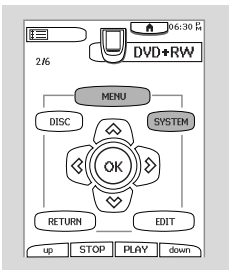
DVD-Audio

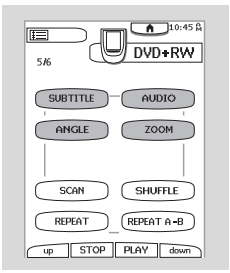
On-screen display information

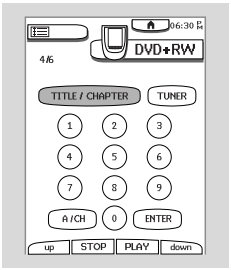
System menu bar



Access the system menu bar by pressing any of the following buttons on the remote control: **SYSTEM MENU**, **TITLE/CHAPTER**, **ANGLE**, **SUBTITLE**, **AUDIO** and **ZOOM**.





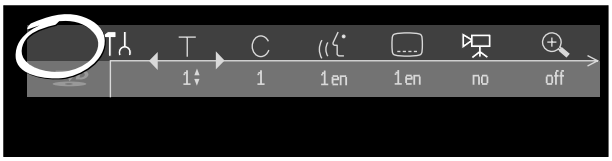


A number of Recorder functions can be controlled via the system menu bar. You can move between the two parts of the system menu bar with the ◁ (left cursor) and ▷ (right cursor) buttons.

System menu bar icons

	Part 1		Part 2
	User preferences		Sound
	Current Title/Track		Picture by Picture
	Current Chapter/Index		Slow motion
	Audio language		Fast motion
	Subtitle language		Time search
	Angle		
	Zoom		

Temporary feedback icons

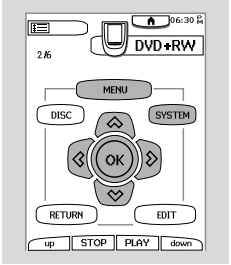


These symbols may appear in the top left corner of the TV screen when you access a feature.

- scan — Scan first 10 seconds of each Chapter/Track
- repeat — Repeat entire Disc
- title — Repeat current Title
- track — Repeat current Track
- chapter — Repeat current Chapter
- A- — Point A for Repeat A-B playback is set.
- A-B — Repeat A-B playback
- Alternate camera Angle
- locked — Child Lock On
- safe — Child Safe
- resume — Resume
- Action prohibited

User preference menu operation

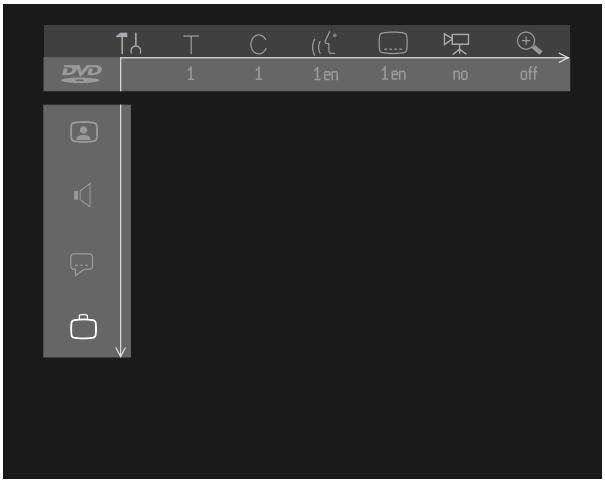
1 Press **SYSTEM MENU** on the remote control.
2 Press the ◁ (left cursor) button to select ⚒ in the system menu bars then press ▽ (down cursor).
➤ The user preference menu appears.
3 Use the ◁/▷/△/▽ (left or right/up or down cursor) buttons to move through the menus, sub menus and sub menu options.
➤ When a menu item is selected, the cursor buttons (on the remote control) to operate the item are displayed next to the item.
4 Press **OK**, repeatedly if necessary, to confirm and return to the main menu.

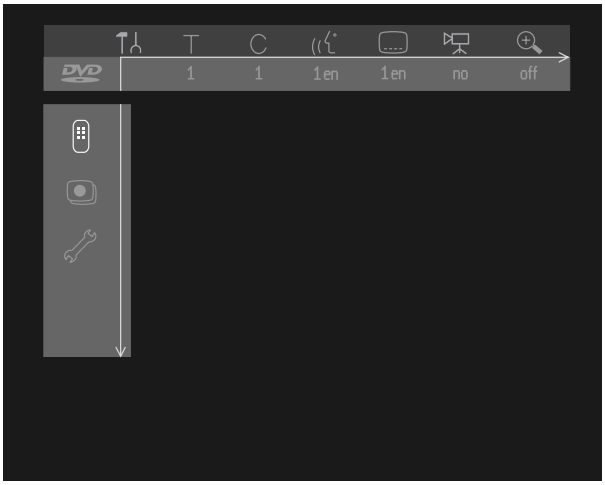


The following functions can be operated in the user preference menu:

User preference menu icons

- Picture settings
- Sound settings
- Language settings
- Feature settings
- Remote control settings
- Record settings
- Installation





- Press **SYSTEM MENU** to remove the system menu bar from the screen.

Status box

The status box displays the current status of the Recorder and information about the current disc, including disc type, total playing time, and elapsed playing time. Set status Box to '**On**,' if you want to see following icons when you access a feature.

Disc type icons

- RW — DVD+RW (Rewritable)
- DVD — DVD-Video
- VCD — Video-CD
- no disc — no disc
- error — disc error

Disc status icons

- rec — recording
- stop — stop
- play — playing
- pause — pause play
- pause — record pause
- erasing — erasing
- 4 x — fast forward
- 4 x — fast reverse
- 1/4 — slow motion

Warning box

A warning box will be displayed on the location of the status box when appropriate. For instance: '**Disc locked**'

Tuner info box

The tuner info box appears at the bottom left of the TV screen during tuner mode (see: Manual recording, Checking input). It displays the currently selected signal, or which device you are viewing or recording from. When tuner is selected, it shows the channel number and/or channel name. For example, if the tuner info box shows EXT 1, you are viewing or recording the material that is playing on the equipment that is connected to the EXT 1 AUDIO and VIDEO IN jacks on the back of the Recorder.

Current TV channel

No signal

Make sure you have connected an antenna or cable signal to the ANTENNA jack on the Recorder as described in "Installation - Update/Re-install TV channels" If you have selected an external input, make sure the source device is connected and switched on.

Copy-protected signal

The tuner info box appears on the screen at all times if you are watching TV channels through the Recorder (press **TUNER** on the remote control.)

Timer info box

The timer info box appears on the TV screen during tuner mode when no recording is taking place. It displays the current status of the timer recordings.

When a timer is set, it shows a timer indication and the start time or date of the first recording.

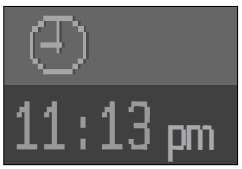
Timer event due today

Timer event due on another day

When an OTR is in progress, the end time appears.

OTR recording started

When no timer recording is scheduled, the current time appears.



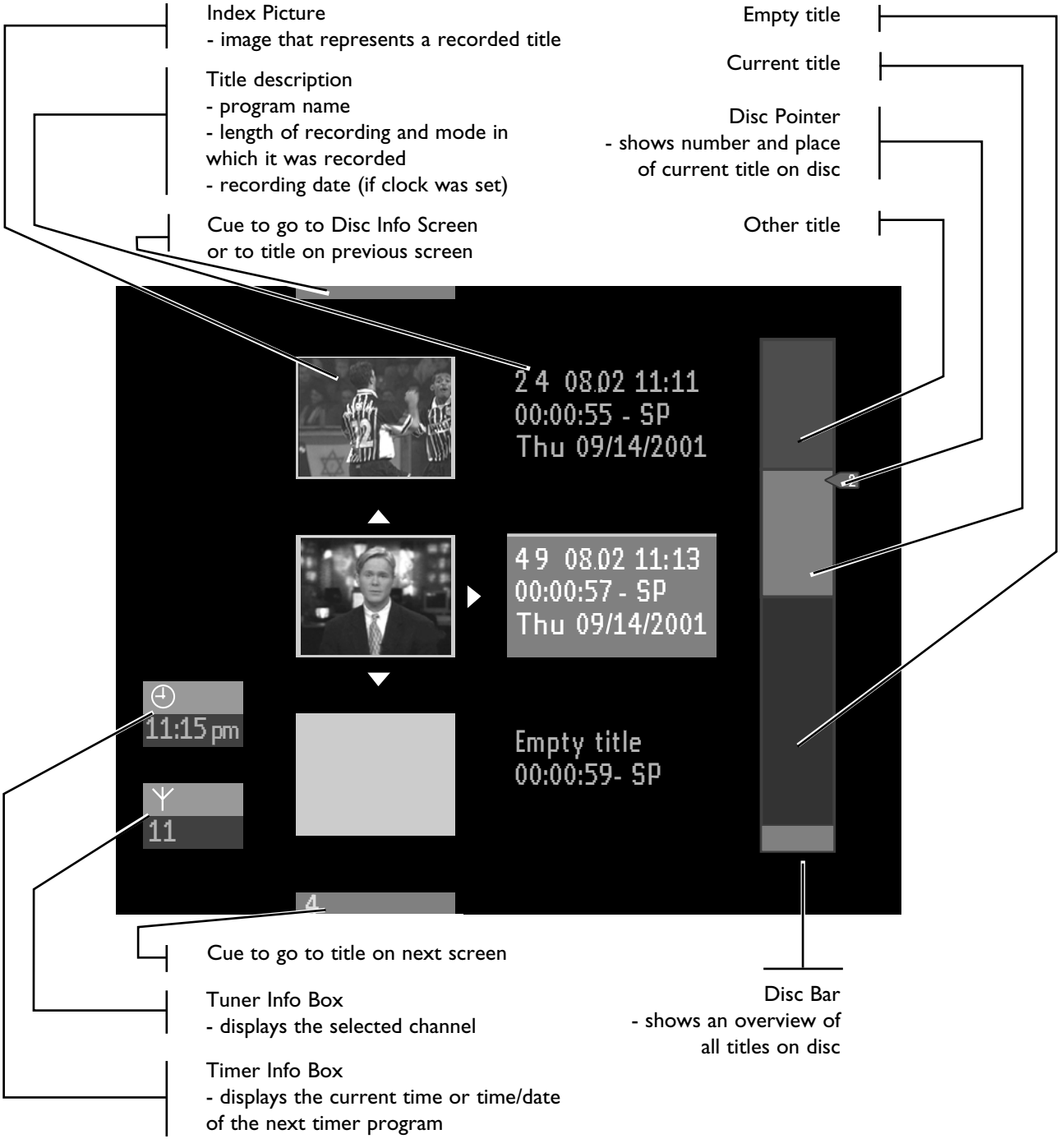
Current time

Note: The Tuner info box and Timer info box will disappear during playback and after a recording starts.

Index Picture Screen

The Index Picture Screen displays an overview of the titles recorded on the disc. It appears automatically when playback or recording is stopped and a DVD+RW is in the Recorder. (The DVD+RW must have recorded content.) Each title is represented by an index picture. Next to the index picture, the program name, length of recording and mode in which it was recorded and recording date of the title are shown. If no name is known, the DVD Recorder will fill in the source (i.e. channel recorded) and the time of the recording instead. Empty spaces (erased titles or blank space at the end of the disc) are also shown.

- A maximum of three titles will be shown on the screen at once. If more titles are present, you can move to those with the ▽/△ (down or up cursor) buttons.
- On the right side of the Index Picture Screen, you can see the disc bar. This gives an overview of all titles on the disc, as well as any empty spaces. On the disc bar, an arrow – the disc pointer – indicates your current position on the disc. From this point you may resume playback or recording.
- If you move through the list of titles with ▽/△ (down or up cursor) or ⏮ **PREVIOUS**/⏭ **NEXT**, the disc pointer will move.
- Press ■ **STOP** to put the disc pointer at the beginning of the disc.
- To move the disc pointer to the end of the last title, press and hold ⏭ **NEXT**.
- If you move from an Index Picture to the box beside it (containing name, record mode, etc.), you enter the title settings menu (see 'Managing disc content - Title settings').



User preferences

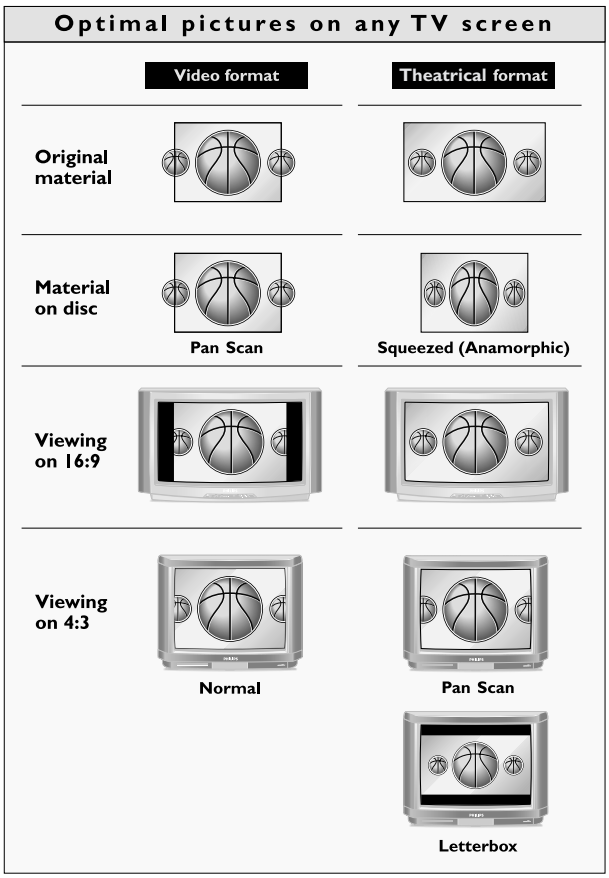
Setting user preferences

You can set your user preferences for some of the Recorder features. (See 'Operation' - 'User preference menu operation')

The following items can be adapted:

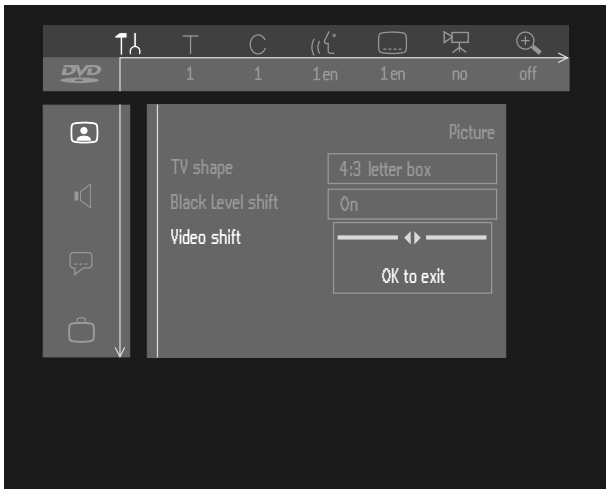
Picture settings

TV Shape
With TV Shape you can adjust the image from your DVD Recorder to fit your TV screen.
You can choose:
- **16:9** if you have a wide screen (16:9) TV.
- **4:3 Letterbox**: if you have a regular TV and you want a 'wide-screen' picture with black bars at the top and bottom,
- **4:3 Pan Scan**: if you have a regular TV and you want full-height picture with the sides trimmed. If a disc has Pan Scan, the picture then moves (pans) horizontally to keep the main action on the screen.



Black level shift
Adapts the color dynamics to obtain richer contrasts.
Select On or Off.

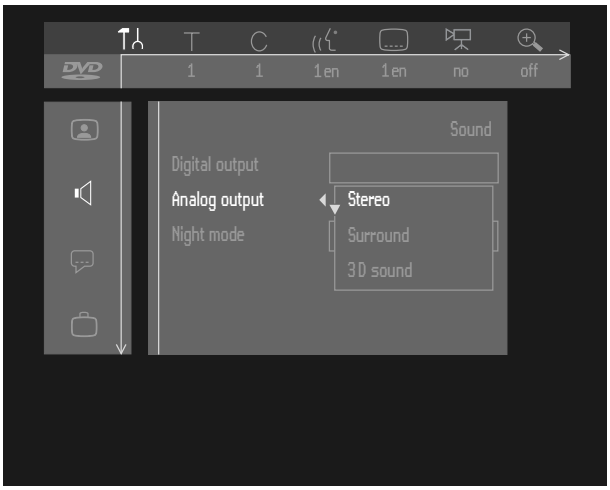
Video shift
The factory setting centers the video on your screen. Or, use Video shift to adjust the position of the picture on your TV to the left or right.



Sound settings

Digital output
The factory setting off '**All**' means both coaxial and optical outputs are on, and Dolby Digital and MPEG-2 Multi-channel sound is going to the DVD Recorders output.
If your equipment doesn't include a digital Multi-channel decoder, set the digital output to '**PCM only**' (Pulse Code Modulation). Both coaxial and optical outputs are then switched on, and Dolby Digital and MPEG2 Multi-channel are converted to PCM. If you are not connecting to equipment with a digital input, change the setting to '**Off**'.

Analog output
Select **Stereo**, **Surround** or **3D Sound**. Factory setting is **Stereo**.
Surround : Select this setting when using equipment with a Surround Pro Logic decoder. In this setting the 5.1 audio channels (Dolby Digital, MPEG-2) are downmixed to a Surround-compatible 2-channel output.
3D Sound: In a setup without rear speakers (analog stereo output), this option remixes the six channels of digital surround (Dolby Digital, MPEG-2) into a two speaker output, while retaining all of the original audio information. The result is the listening sensation of being surrounded by multiple speakers.



Connected audio system	Digital out	Analog out
Amplifier or TV with two channel analog stereo	*Off*	*Stereo*
Amplifier or TV with Dolby Surround or Dolby Pro Logic	*Off*	*Surround*
Amplifier with two channel digital stereo	*PCM only*	*Stereo*
A/V receiver with Multi-channel decoder (Dolby Digital, MPEG, DTS)	*All*	*Stereo or Surround*
Multi-channel A/V receiver with 6-channel connectors	*Off*	*Surround*

Night mode
Night mode optimizes the dynamics of the sound with low volume playback for less disturbance in quiet environments. This only works for Dolby Digital audio on DVD video discs.

Language settings

The preferred language can be adapted via the system menu bar. Also see 'Initial setup Language.' Settings can be changed for:
- Playback audio
- Recording audio
- Subtitle
- Menu (DVD Recorder system menus only)

Recording audio
You can set a preference for recording a stereo or secondary audio program. Select '**Stereo**' or '**SAP**.' This setting applies only if the broadcast contains stereo or SAP. SAP usually means a program is broadcast in a different language or with additional information

Feature settings

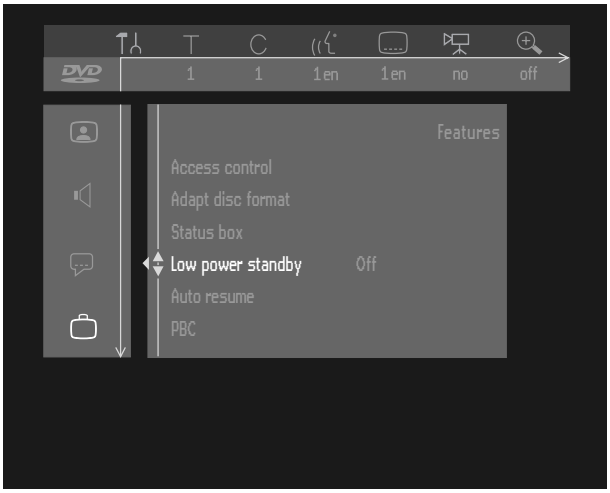
Access Control
Access Control contains the following features:
Child Lock - When Child Lock is on, a 4-digit code needs to be entered in order to play discs.
Parental Level - Allows the conditional presentation of DVD-Video discs rated according to Parental Level information.
Change Country - Allows conditional presentation of DVD-Video discs rated according to country information.
Change Code - To change the 4-digit code.

Adapt disc format
This option adapts the menu of a DVD+RW disc recorded on a different brand of Recorder. It only shows when such a disc is loaded.
A DVD+RW disc recorded on a different type of Recorder can play, but may not provide all features commonly available to DVD+RW discs, such as the on-screen disc bar, disc settings menu, title settings menu, and editing. If the disc is not erase-protected, the disc format can be adapted to this Philips Recorder, after which these functions are available.

Status box
The status box displays the current status of the Recorder and the disc type loaded (see 'Operation - on-screen display information - Status box'). You can switch it on or off.
Off = always Off. Status boxes do not appear.
On = Status box appears with the system menu bar or is displayed temporarily (disappears after time-out) when changing the playback or record status.
Factory setting is '**On**.'

Low Power Standby
If Low Power Standby is '**On**,' the Recorder will consume minimum power in standby mode.
Factory setting is '**Off**.'

Note:
When the Recorder is in low power standby mode:
- the signal of the equipment connected to the inputs will not be passed through to the TV outputs,
- the Display will be Off,
- the Standby indicator on the Recorder will still light up in standby mode.



Autoresume
The Autoresume setting only applies to the last 20 pre-recorded DVD Video and Video CD discs, you played.
If **Auto resume** is '**On**,' playback will start from the point where it stopped the last time the disc played.
When **Auto resume** is '**Off**,' the Recorder will start playing from the beginning of a disc. In this case, you can still resume from the last point it stopped when resume appears on the TV screen by pressing ▶ **PLAY**.
Factory setting is '**On**.'

PBC
This feature allows you to disable or enable the PBC (Playback Control) menu of Video CDs. See 'Playback' - 'Special VCD features.' Factory setting is '**On**.'

Remote Control settings

Key sound
The Recorder beeps each time you press a button on the Recorder or remote control.
Select '**Off**' to disable this sound. The factory setting is **On**.

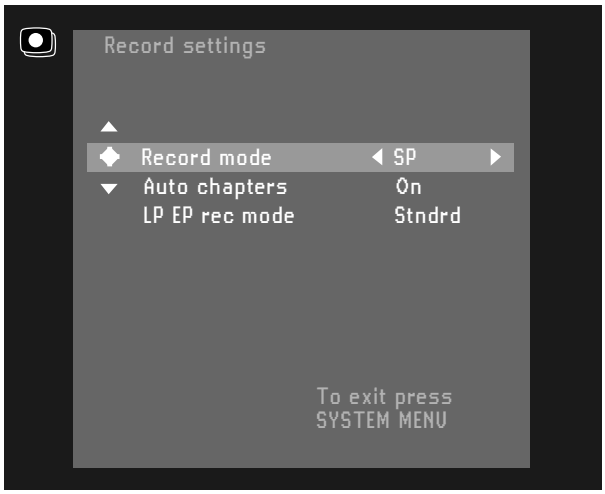
Remote control used
If you want to use the remote control of a Philips DVD player instead of the standard DVD Recorder remote control to work the DVD Recorder, select '**DVD Player**.' Factory setting is '**DVD Recorder**.'

Record settings

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

Mode	Picture quality	Total recording time
HQ (High Quality)	best possible picture quality	60 minutes
SP (Standard Play)	same picture quality pre-recorded as a DVD	120 minutes
LP (Long Play)	S-VHS picture quality	180 minutes
EP (Extended Play)	better than VHS picture quality	240 minutes

You can only play a disc in the mode in which it was recorded.
- In the Record settings menu, select '**Record mode**.'

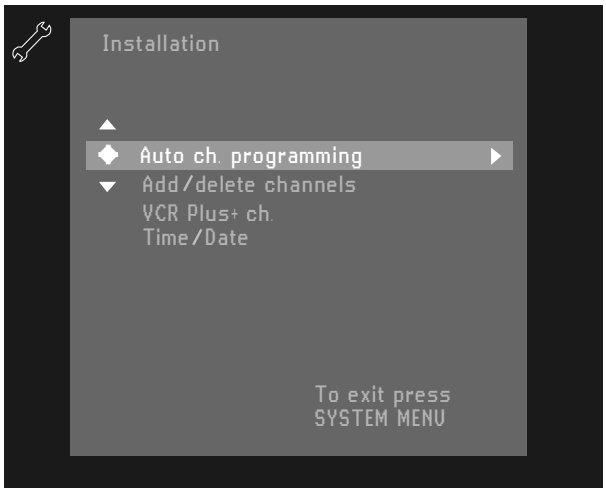


- Select the recording mode by pressing the ◁ or ▷ (left or right cursor) buttons.
- Confirm your selection by pressing the **OK** button.
- Press **SYSTEM MENU** to return to the previous menu.

Auto chapters
If Auto chapters is '**On**,' every five to six minutes a chapter marker (beginning of a new chapter) is inserted during recording. This enables easy navigation through a title during playback. Or, you can manually insert chapter markers after recording. (see 'Managing disc content' - 'Edit in playback mode')

LP/EP recording mode
When recording LP or EP, select the '**Sport**' setting to optimize the video recording for images that contain fast movement, like sports programs. The setting does not influence recording when using HQ or SP mode.
The factory setting is '**Standard**.'

Installation



Update/Re-install TV channels

After initial installation is complete, it is possible to perform the installation procedure again. If, for example, your cable company adds TV channels, you may wish to update the channel screen.

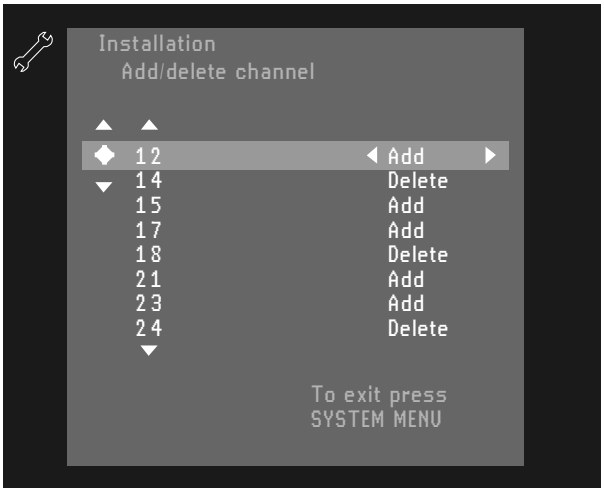
Note:
All previously stored channels will be erased and replaced.

1 In the installation menu, select '**Auto ch. programming**' with the ▽/△ (down or up cursor) buttons, then press **OK**.
➤ Automatic search and installation starts. '**Searching for TV channels**,' the number of channels found so far and '**Please wait**' appear on the TV screen.
➤ When Automatic search and installation is complete, '**Autom. search complete - XXX channels found**' appears on the TV screen.
2 Press **SYSTEM MENU** to return to the previous menu.

Add and delete TV channels

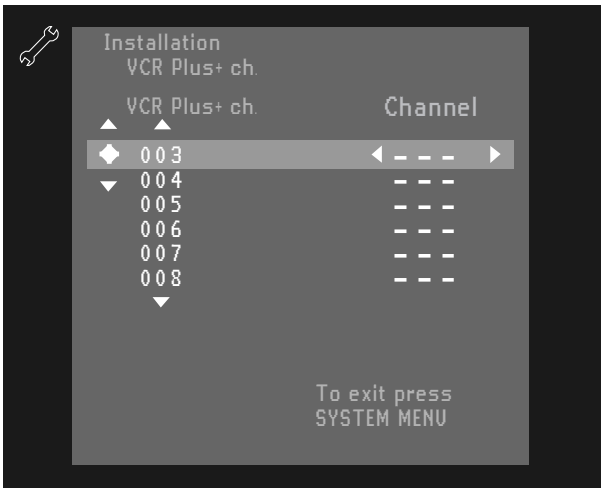
You can add channels that were not installed automatically due to poor reception or delete channels that you find not interesting. To customize the list of channels available:

1 In the installation menu, select '**Add/delete channels**' with the ▽/△ (down or up cursor) buttons, then press the ▷ (right cursor).
➤ The channel screen appears, and the cursor is on the first channel.
2 Press ▽ (down cursor) as often as required to select the channel to be changed.
3 Press ◁/▷ (left or right cursor).
➤ The selected channel toggles to **Add** or **Del**.
4 Press **OK** to store your choice.
5 Repeat steps 2-4 as often as necessary to add or delete all the channels you want.
6 Press **SYSTEM MENU** twice to return to the previous menu.



VCR Plus+ ch

If you intend to use the VCR Plus+ programming system, you need to manually assign channel numbers to Guide channel numbers.



1 In the Installation menu select '**VCR Plus+ ch.**' using the ▽/△ (down or up cursor.) Then press ▷ (right cursor)
2 Select a VCR Plus+ Guide channel with ▽/△ (down or up cursor.)
3 Enter the correct channel number with ◁/▷ (left or right cursor) or **0-9**. Refer to a channel mapping list in your newspaper or TV guide. Enter channel numbers as a three-digit number. For example, to enter channel seven, press 0,0,7 or, press 0,1,2 for channel twelve.
4 Confirm your selection by pressing **OK**.
5 Press the **SYSTEM MENU** button twice to return to the previous menu.

Time/Date Automatic

The automatic Time/Date feature allows you to select a channel from which the date and time are obtained (e.g. because the currently selected channel is unreliable or inaccurate). If you don't know the correct channel for the BPS station that can send Time and Date information in your area, see 'Time/Date Manually.'

1 In the Installation menu, select 'Time/Date' with the ▽ (down cursor) or △ (up cursor) button, then press the ▷ (right cursor) button.
➤ The Automatic/Manual screen is displayed, with the cursor on the currently selected option.
2 Press the ▽/△ (down or up cursor) to select 'Automatic.'

Note:
Usually, the PBS station in your area broadcasts the time and date. You may want to try the PBS channel number as your first choice.

3 Press **OK** to confirm.
➤ The Time/Date Automatic screen is displayed.
4 Select the field you want to change with the ▽/△ (down or up cursor) button.
5 Enter the correct digits or press ◁/▷ (left or right cursor) to enter a channel number.
➤ Press ◁/▷ (left or right cursor) to toggle between the values for Daylight Saving and Time zone. Select the right time zone if the DVD Recorder is tuned to the PBS channel of a different time zone to ensure the correct clock setting.
6 Confirm each entry with **OK**.
7 To end, press **SYSTEM MENU** repeatedly to remove the menus.
➤ The time and date will be set by the specified channel the next time you switch to Standby power mode.
➤ The DVD Recorder downloads from the specified channel. if possible. If the specified channel does not carry date and time information, the message appears 'No time and date available.' The Automatic Time and Date screen will reappear automatically. You can repeat the procedure with a new channel number.

- manually

If the time in the DVD Recorder display is not correct, the clock must be set manually.

1 In the installation menu, select Time/Date with the ▽/△ (down or up cursor) button, then press ▷ (right cursor).
➤ The Automatic/Manual screen is displayed, with the cursor on the currently selected option.
2 Press the ▽ (down cursor) to select 'Manual.'
3 Press **OK**.
➤ The Time/Date screen appears.
4 Adjust 'Time,' 'AM/PM,' 'Year,' 'Month,' 'Date,' and 'Daylight saving' if required. Select the ▽/△ (down or up cursor) button. Change values with the ◁/▷ (left or right cursor) button or the **0-9** digit keys.
5 When the information is all correct, press **OK**.
6 Press **SYSTEM MENU** repeatedly to remove all menus.

Recording

Before you start recording

Recordings on a DVDR+RW disc begin at the disc pointer, i.e. the point where the last recording stopped. Other recordings may be overwritten without notice, unless the disc is erase protected. In this respect, your DVD Recorder behaves just like a Video Cassette Recorder.

In the Index Picture Screen you can select the point where you want to start your recording. Use the ▽/△ (down or up cursor) and ◂◂ **REVERSE**/▸▸ **FORWARD** buttons to select a location on the disc bar at the right of the Index Picture Screen.

Your DVD Recorder always checks the disc that you have inserted:

➤ When a DVD+RW disc is inserted on which recordings have been made, the Index Picture Screen is shown on your TV screen.

➤ If the inserted disc is a completely empty recordable disc, the message EMPTY DISC appears on the display.

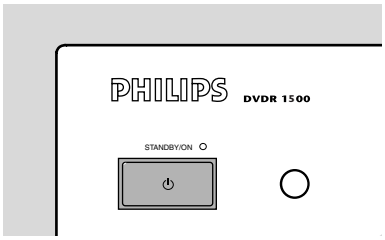
➤ If the inserted disc is a DVD+RW disc with a content that is not DVD video compatible (e.g. a data disc), a dialog box is shown with the option to erase or eject the disc. You can only record on this disc after erasing it with the **RECORD** button.

➤ A disc can hold up to 48 titles (including empty titles). When this maximum is reached, the on-screen message '**Too many titles**' appears if you want to make a new recording. You have to erase a title first. See 'Managing Disc Content - Erasing a Title.'

Note:
You can not access the system menu while recording.

Switching on

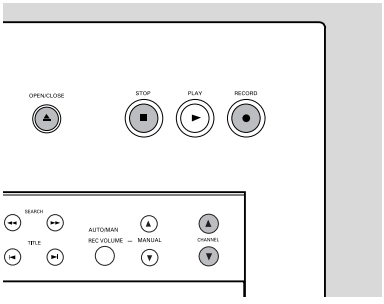
- Switch on the TV and select the TV's Video In channel or the channel you have chosen for video playback (see operating manual for your TV). This may be referred to as A/V IN, Video IN, EXT IN or AUX IN.
- Press ⏻ **STANDBY/ON** to turn on the Recorder.
  ➤ The Recorder display lights. If you have not yet installed your DVD Recorder, it will enter 'Initial setup.' You will have to set your personal preferences. (See 'Initial setup')

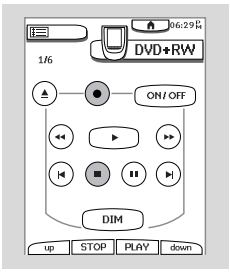


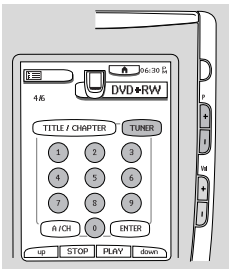
Manual recording of a TV channel

Recording

1. Insert a recordable DVD+RW disc.
2. Normally, the DVD Recorder displays the contents of the disc on the screen to see the currently selected TV channel.
3. Use **CHANNEL ▲** or **CHANNEL ▼** (on the Recorder) or **P+**, **P-** or the digit buttons **0-9** (on the remote control) to select the channel number you wish to record.







The following channel numbers are provided for recording from external sources that are connected to these jacks on the DVD Recorder:

'EXT1' : rear S-Video (Y/C)
'EXT2' : rear Video (CVBS)
'EXT3' : rear component video (YP_BP_R)
'CAM1': front S-Video
'CAM2': front CVBS
'CAM3': front DV.

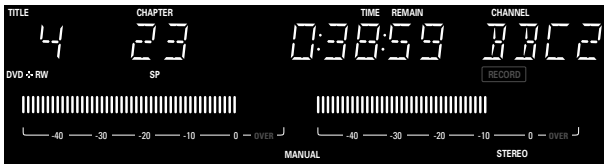
These channels are located between channels 125 and 1 when choosing TV channels at the Recorder while the Recorder is in **TUNER** mode.

4 Press **RECORD**.
➤ **RECORD** shows on the display.
5 Press ■ **STOP** to stop recording.
➤ MENU UPDATE is shown on the display.
6 The Index Picture Screen appears showing the most recent recording.
7 After a short recording on a new disc, a few minutes will be needed to complete the formatting of the disc.

Manual audio control

You can control the audio volume recording level of your DVD Recorder manually.

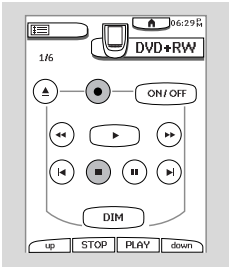
- In tuner mode, press **AUTO/MAN REC VOLUME** on the front of the DVD Recorder. (You may have to press PANEL to access the front panel buttons).
  ➤ The display will show the current audio level, and **MANUAL** appears.

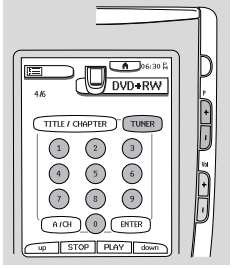


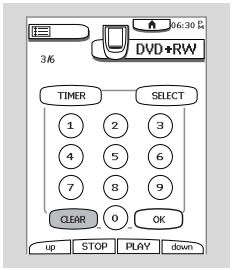
- Adjust the recording level with **MANUAL** ▲ or ▼ on the DVD Recorder so that the '0 dB' mark lights up during the loudest parts of the recording.
- Return to automatic audio level control by pressing **AUTO/MAN REC VOLUME** again.
  ➤ The display will show the current disc position, and **MANUAL** disappears.

Note:
*When recording from the equipment connected to DV, the manual audio control is disabled. The **AUTO/MAN REC VOLUME** button is active only during **TUNER** mode or while recording.*

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







1 Insert a recordable DVD+RW disc.
2 Normally, the DVD Recorder displays the contents of the disc on the screen to see the currently selected TV channel.
3 Use **CHANNEL** ▲ or **CHANNEL** ▼ (on the Recorder) or **P+**, **P-** or the digit buttons **0-9** (on the remote control) to select the channel you wish to record.
4 Press **RECORD**.
➤ A 30 minute recording will be made.
➤ The end time of the recording shows briefly in the timer box on the TV screen. The remaining recording time shows in the status box on the TV screen and on the display.

5 To increase the recording time in 30-minute increments, press **RECORD** repeatedly.
6 Shortly after pressing **RECORD**, an OTR can be cancelled by pressing **CLEAR**.

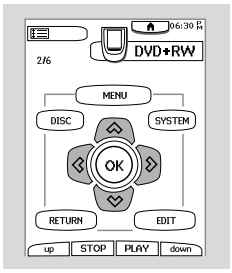
Timer programming

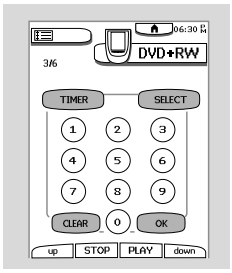
The DVD Recorder needs the following information for every programmed recording:
- the date on which the recording is to be made;
- the channel;
- the start and stop time of the recording;
- the recording speed (HQ, SP, LP or EP).

The DVD Recorder stores all the information mentioned above in a timer block. You can program up to six timer blocks, one year in advance.

When all timer blocks are full, Timer programming and VCR Plus+ programming cannot be accessed. For clearing a timer block, see 'How to clear a timer block.'

Timer recording with 'VCR Plus+'





A PlusCode is a number of up to eight digits, printed in most TV guides next to the start time of a TV program. It contains all the information you need for programming a timer.

1 Press **TIMER** on the remote control.
2 Select '**VCR Plus+ programming**' with ▽/△ (down or up cursor.)

3 Press ▷ (right cursor).

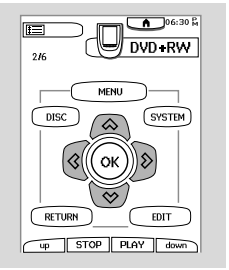
4 Use the **0-9** buttons to enter the entire PlusCode number (up to eight digits) as printed in your TV guide. If you make a mistake, press **CLEAR**.
5 Confirm with **OK**.
6 If the VCR Plus+ channel has not been set, the DVD Recorder will ask you to enter the channel number. Refer to a channel napping list. You may find this in your TV Guide or newspaper. Use ◁/▷ (left or right cursor) to select the correct channel, then conform with **OK**.

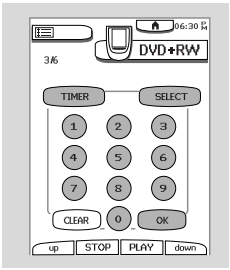
➤ The timer programming information will appear on the TV screen.

7 Use **SELECT** to record the program at daily or weekly intervals. Mo-Fr: Record every day from Monday to Friday. Weekly: Recording at the same day of the week, every week, for example every Thursday.
8 Press ▷ (right cursor).
9 Use ▽/△ (down or up cursor) to select the Recording mode (HQ, SP, LP, EP).
10 Press **OK** to conform.
➤ The information has been stored in a timer block.
11 To end, press **TIMER**.
12 Make sure that you inserted a recordable disc. If you inserted a write-protected discs recording will not occur.
13 Switch off the Recorder by pressing **ON/OFF** or ⏻ **STANDBY/ON**.

Timer recording without 'VCR Plus+'

Use term 'Timer Recording' for all references.





1 Press **TIMER** on the remote control.
2 Select Timer programming with ▽/△ (down or up cursor.)
3 Press ▷ (right cursor).
4 Enter a specific month and date with ▽/△ (down or up cursor) or with the digit buttons **0-9**.
- Use **SELECT** to record the program at daily or weekly intervals. Mo-Fr: Record every day from Monday to Friday. Weekly: Recording at the same day of the week, every week, for example every Thursday.

5 Press ▷ (right cursor) to select Ch.
6 Enter the channel number you want to record with ▽/△ (down or up cursor) or the digit buttons **0-9**. Enter channel numbers as a three digit number. For example, for channel 12, press 0,1,2. A cross (X) will appear if invalid information is entered.
7 Press ▷ (right cursor) to select Start.
8 Enter the Start time with ▽/△ (down or up cursor) or the digit buttons **0-9**.
9 Press **SELECT** to toggle between AM and PM.
- Press ▷ (right cursor) to select End.
- Enter the End time with ▽/△ (down or up cursor) or the digit buttons **0-9**. Press **SELECT** repeatedly to choose AM or PM.
- Press ▷ (right cursor) to select Record mode.
- Select the recording mode with ▽/△ (down or up cursor.)
- If you make a mistake, go back with ◁ (left cursor) and re-enter the information.
- Confirm with **OK**.
➤ When all information is correct, the data is stored in a timer block.
- To end, press **TIMER**.
- Make sure you inserted a disc without erase protection. If you inserted a disc with erase protection, recording will not occur.
- Switch off the Recorder by pressing **ON/OFF** or ⏻ **STANDBY/ON**.

If a timer recording is incorrect

The following messages may appear when you set a timer recording may appear in the timer menu:

Collision
The Timer recording overlaps with another timer recording.
Solution:
- Ignore by pressing **TIMER** again. The program with the earlier start time will record completely. Then the remainder of the later program will record.
- Edit one or both timer recordings.
- Delete one of the timer recordings.

Please enter channel number
The VCR Plus+ system does not recognize the TV channel.
Solution
- Select the required channel number with ◁/▷ (left or right cursor).
- Press **OK** to conform.

PlusCode wrong
You entered an incorrect PlusCode number.
Solution:
- Enter the correct information or quit by pressing **TIMER**.

Weekend programming - not possible
Date was incorrectly entered. Daily programming can only be used for recordings from Mondays to Fridays.

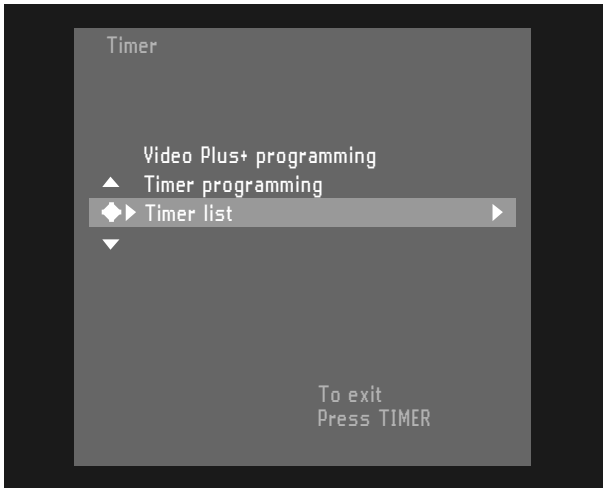
Memory full
All the timer blocks are in use.
Solution:
- Delete one of the Timer recordings.

Clock not set-check Clock channel
The clock is not set. Set it manually (See 'Time/Date adjustment-manually') or adjust the Clock channel (See 'Time/Date adjustment automatic.')

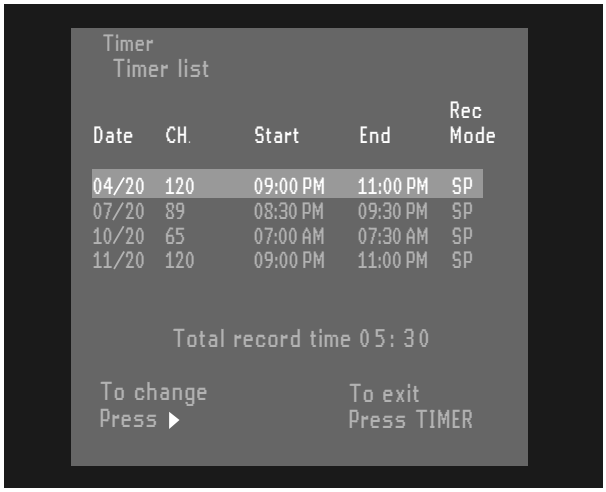
Data error
Solution:
- Make sure all information is correct and complete.

How to check or alter a Timer Recording

1 Press **TIMER** on the remote control.
2 Select '**Timer list**' with ▽/△ (down or up cursor.)

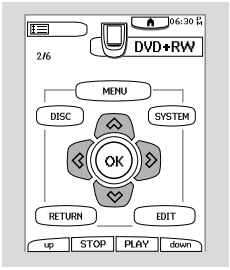


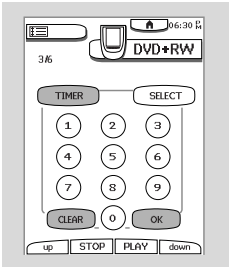
3 Press ▷ (right cursor).



4 Select the timer recording you want to check or alter with ▽/△ (down or up cursor.)
➤ The selected timer recording will be highlighted in blue.
5 Press ▷ (right cursor).
6 Select what you want to check or alter with ◁/▷ (left or right cursor).
7 Alter data with ▽/△ (down or up cursor) or with the digit buttons **0-9**.
8 Press **OK** to conform.
9 To end, press **TIMER**, repeatedly if necessary to remove the menus.
10 Switch off the Recorder by pressing **ON/OFF** on the remote control.

How to clear a timer block





1 Press **TIMER** on the remote control.
2 Select '**Timer list**' with ▽/△ (down or up cursor.)
3 Press ▷ (right cursor).
4 Select the Timer Recording you want to clear with ▽/△ (down or up cursor.) The selected Timer Recording will be highlighted in blue.
5 Press **CLEAR**.
➤ The Recording you selected will appear alone on the screen.
6 Confirm with **OK**.
➤ Timer Cleared will appear at the bottom of the screen briefly. Then the Timer List will reappear.
7 Remove the menus by pressing **TIMER**, repeatedly if necessary.

Note:
If Timer Recordings overlap or conflict with each other, they will be highlighted in red in the Timer List.

How to stop a Time Recording in progress

- A Timer Recording that is already in progress can only be aborted by pressing **ON/OFF** on the remote control or **STANDBY/ON** on the front of the Recorder.

Playback

Playing a pre-recorded DVD-Video disc

Some DVD discs are produced in a way that requires specific operation or allows only limited operation during playback. In these cases the Recorder may not respond to all operating commands. When this occurs, please refer to the instructions in the disc jacket or case. When an [×] appears in the top left corner of the TV screen, the operation is not permitted by the Recorder or the disc.

1 Insert a pre-recorded DVD-Video disc.
➤ When '**Autoresume**' is '**On**' (see 'User Preferences') playback starts automatically from the point at which it stopped, the last time the disc played.
➤ When '**Autoresume**' is '**Off**' the disc will play from the start of the disc. You can resume play from the point at which you it stopped the last time by pressing ▶ **PLAY** shortly. While [resume] appears in the top left corner of the TV screen. When pressing ▶ **PLAY** at beginning of disc playback an "**X**" may show on the screen
➤ The currently playing title and chapter number are displayed will appear on the Recorder display. The elapsed playing time appears also.

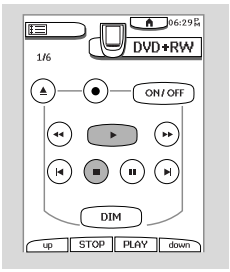
Notes:
- Since it is usual DVD movies are released at different times in different regions of the world, all players have region codes, and discs can have an optional region code. If you load a disc that has a different region code, than your Recorder, you will see the region code notice on the screen. The disc will not play, and should be unloaded.

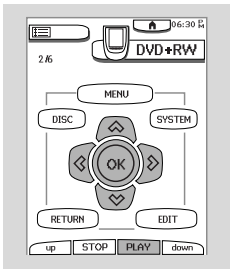
- The region code of this Recorder is one (1). This is stated on a label on the back of your Recorder.
- Regional coding is not applicable for DVD+RW discs.

2 The disc may invite you to select an item from a menu. If the selections are numbered, press the appropriate numerical button; if not, use the ▽/△/▷/◁ (down/up/right/left cursor) buttons to highlight your selection, then press **OK**.

Note:
*During playback you can display and enter the DVD disc menu by pressing **DISC MENU**.*

3 To stop play at any time, press ■ **STOP**.
➤ The default screen will appear, giving information about the current status of the Recorder.





Playing a (Super) Video CD

1 Insert a (Super) Video CD.
➤ When '**Autoresume**' is '**On**' (see 'User Preferences'), playback starts automatically from the point at which it stopped the last time the disc played.
➤ The disc may invite you to select an item from a menu. If the selections are numbered, press the appropriate numerical button.

2 To stop play at any time, press ■ **STOP**.
➤ The default screen will appear.

Playing a DVD+RW disc

DVD+ReWritable

1 Insert a DVD+RW disc.
➤ If the inserted disc is erase-protected, playback starts automatically. Otherwise, the Index Picture Screen appears.
2 Press ▽/△ (down or up cursor) to select the Title you want to play.
➤ If you do not select a Title, playback starts from the point where it stopped the last time the disc was played or recorded.
➤ If the disc is a new blank disc, the display will show 'EMPTY DISC.'
3 Press ▶ **PLAY.**
4 Press ⏮ **PREVIOUS** and ⏭ **NEXT** to go to the previous or next title.
5 To stop playback at any time, press ■ **STOP.**
➤ The Index Picture Screen will appear.

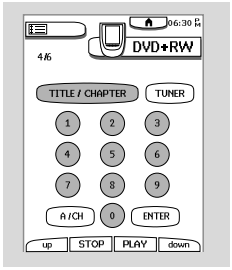
General features

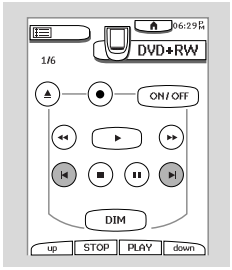
DVD+ReWritable DVD VIDEO COMPACT disc DIGITAL VIDEO

Note: Unless stated otherwise, all operations described are based on remote control operation. A number of operations can also be carried out via the system menu bar on the screen. (See 'System menu bar operation')

Moving to another title/track

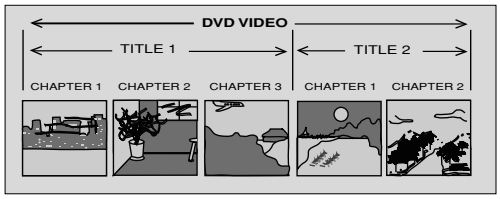
When a disc has more than one title or track, you can move to another title in any one of the following ways.

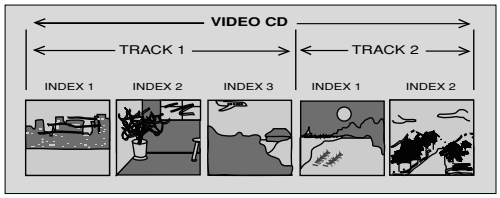




- Press **T/C**. With ⊤ selected in the menu bar for Title or Track, press ▽/△ (down or up cursor) to select the Title or Track number you want. Playback will begin automatically at the Title or Track you selected.
- Press ⏭ **NEXT** during play to step forward to the next title.
- Press ⏮ **PREVIOUS** during play to return to the beginning of the current title. Rapidly press ⏮ **PREVIOUS** again to step back to the previous title.
- To go directly to any title or track, enter the title number using the numerical buttons **0-9** when playback is stopped.

Note:
- If the Title number has more than one digit, press the buttons in rapid succession.
- If the system menu bar is on screen, make sure the ⊤ is selected. If it is not, press the ◁/▷ (left or right cursor) buttons to select ⊤.





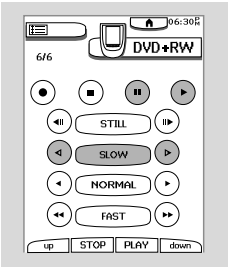
Moving to another chapter/index

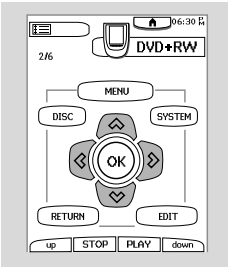
When a title on a disc has more than one chapter or a track has more than one index, you can move to another chapter/index as in one of the following ways.

- Press ⏭ **NEXT** during play to select the next chapter/index.
- Press ⏮ **PREVIOUS** during play to return to the beginning of the current chapter/index. Rapidly press ⏮ **PREVIOUS** twice to step back to the previous chapter/index.
- To go directly to any chapter or index, enter the chapter or index number using the numerical buttons **0-9** during disc playback.
- Press **T/C** or **SYSTEM MENU** to access the system menu bar. Then, press ◁/▷ (left or right cursor) buttons to select the Chapter number you want. Playback will begin automatically at the Chapter you selected.

Note:
- If the Chapter or Index number has more than one digit, press the buttons in rapid succession.
- If the system menu bar is on the screen, make sure the ⊂ is selected. If not, press ◁/▷ (left or right cursor) buttons to select ⊂.

Slow Motion





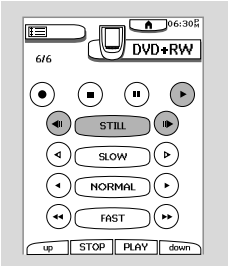
1 Press **SYSTEM MENU** to access the system menu bar.
2 Press ◁/▷ (left or right cursor) buttons to select ▷ (Slow motion) in the system menu bar.
3 Use the ▽ (down cursor) button to enter the slow motion menu.
➤ Playback will pause.

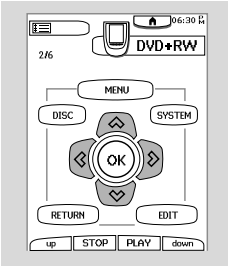
4 Use the ◁/▷ (left or right cursor) buttons to select the required speed: -1, -1/2, -1/4 or -1/8 (backward); 1/8, 1/4, 1/2 or 1 (forward.)
● Select 1 to play at normal speed again.
● Select 0 to pause playback.
5 Press ▶ **PLAY** to exit slow motion mode and return to normal playback.
6 Press **SYSTEM MENU** to remove the system menu bar.

You can also select Slow Motion speeds by pressing the ◀| **SLOW** |▶ button on the remote control repeatedly.

1 Press the ▷ Slow motion button during playback. Playback will automatically show to 1/2 the normal speed.
2 Press ▷ Slow motion button repeatedly to make the disc play at 1/4 or 1/8 the regular speed.
3 Press ▶ **PLAY** to become normal playback.

Still Picture and Frame-by-Frame Playback



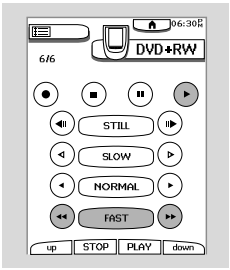


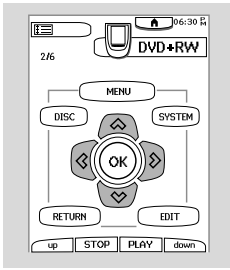
1 Press **SYSTEM MENU** to access the system menu bar.
2 Press ◁/▷ (left or right cursor) buttons to select ◂▯▸ (frame by frame) in the system menu bar.
3 Use the ▽ (down cursor) button to enter the frame by frame menu.
➤ Playback will pause.

4 Use the ◁/▷ (left or right cursor) buttons to move the picture backward or forward one frame at a time.
5 Press ▶ **PLAY** to resume regular playback.
6 Press **SYSTEM MENU** to remove the system menu bar.

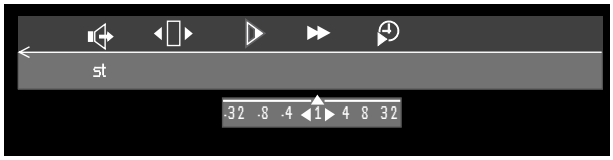
You can also advance the picture forward one frame at a time by pressing **II PAUSE** repeatedly on the remote control.

Search





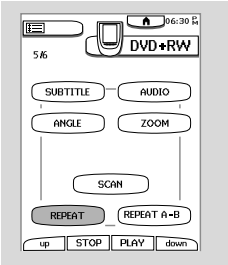
1 Press **SYSTEM MENU** to access the system menu bar.
2 Select ▶▶ (Fast motion) in the system menu bar.
3 Use the ▽ (down cursor) button to enter the fast motion menu.



4 Use the ◁/▷ (left or right cursor) buttons to select the required speed: -32, -8 or -4 (backward); 4, 8, 32 (forward.)
5 Select 1 to play at normal speed again. Or, press ▶ **PLAY** to exit fast motion mode and resume normal playback.
6 Press **SYSTEM MENU** to remove the system menu bar.

To search forward or backward at 8 or 32 find the normal speed, you can also press ◀◀ **REVERSE** or ▶▶ **FORWARD** repeatedly on the remote control.

Repeat



DVD Discs - Repeat chapter/title/disc

- To repeat the current playing chapter, press **REPEAT**.

  ➤ chapter appears on the TV screen.
- To repeat the current playing title, press **REPEAT** a second time.

  ➤ title appears on the TV screen.
- To repeat the entire disc, press **REPEAT** a third time.

  ➤ repeat appears on the TV screen.
- To exit repeat mode, press **REPEAT** a fourth time.

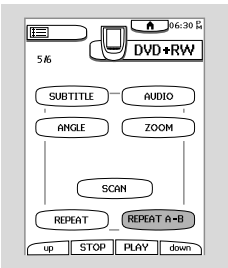
Video CDs - Repeat track/disc

- To repeat the current playing track, press **REPEAT**.

  ➤ track appears on the TV screen.
- To repeat the entire disc, press **REPEAT** a second time.

  ➤ repeat appears on the TV screen.
- To exit the repeat mode, press **REPEAT** a third time.

Repeat A-B



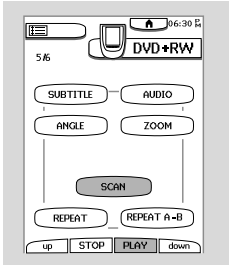
To repeat a segment within a title:

- Press **REPEAT A-B** at your chosen starting point.

  ➤ A- appears on the TV screen.
- Press **REPEAT A-B** again at your chosen end point.

  ➤ A-B appears on the TV screen, and the sequence begins to play repeatedly.
- To exit the sequence and return to normal playback, press **REPEAT A-B**.

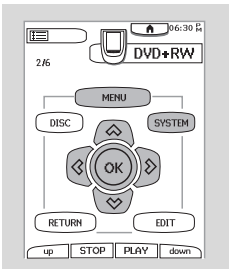
Scan

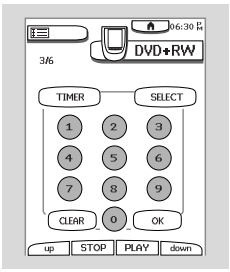


Play the first 10 seconds of each chapter/index on the disc.

- Press **SCAN**. The first 10 seconds of each chapter will plays beginning with the current chapter.
- To continue play at your chosen chapter/index, press **SCAN** again or press ▶ **PLAY**.

Time search



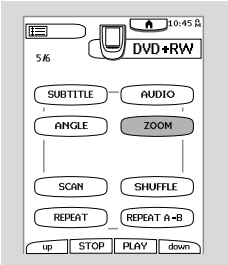


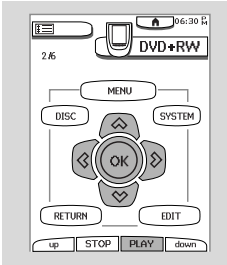
Time Search allows you to start playing a disc at a specific time.

1 Press **SYSTEM MENU** to access the system menu bar.
2 Press ◁/▷ (left or right cursor) buttons to select (Time Search) in the system menu bar.
3 Press ▽ (down cursor).
  ➤ Playback will pause.
  ➤ A time entry box appears on the screen showing the elapsed playing time of the current disc.

4 Use the digit buttons **0-9** to enter the desired start time. Enter hours, minutes and seconds in the box.
  ➤ Each time an item has been entered, the next item will be highlighted.
5 Press **OK** to confirm the start time.
  ➤ The time entry box will disappear and play starts from the selected time position.
6 Press **SYSTEM MENU** to remove the system menu bar.

Zoom





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

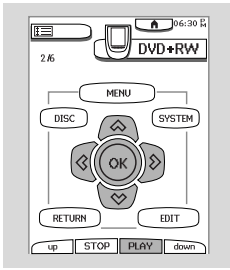
1 Press **ZOOM**. The system menu bar appears.
2 Press ▽/△ (down or up cursor) to activate the Zoom function and select the required zoom factor; 1.33, 2 or 4.
➤ Playback will go pause.
➤ The picture will change accordingly.
➤ The selected zoom factor appears below the Zoom icon in the system menu bar. '**Press OK to pan**' appears below the system menu bar.

3 Press **OK**.
➤ The panning icons ▽/△/▷/◁ and ▶ **PLAY** appear on the screen.
4 Use the ▽/△/▷/◁ (down or up/right or left cursor) buttons to move the zoomed image around the screen.
5 Press **OK** and only the zoomed picture will show on the screen.
6 Press ▶ **PLAY** to exit zoom mode and return to normal playback.
7 Press **SYSTEM MENU** to remove the system menu bar.

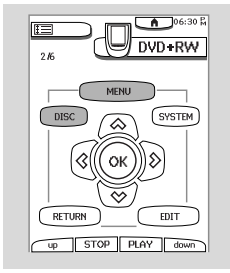
Special DVD-Video features

Menus on the disc

Some DVDs include disc menus for Title or Chapter selection or special playback features.
You can make selections from these menus.



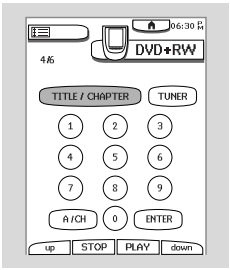
Title menus

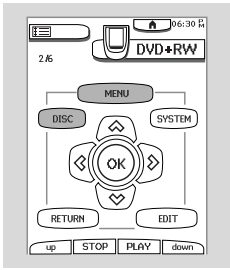


1 Press **DISC MENU**.
➤ If the current title has a menu, then menu will appear on the screen. Otherwise, the disc menu will be displayed.
2 The menu can list camera angles, spoken language and subtitle options, and chapters for the title. Press the appropriate numerical button to choose a numbered item or use the ▽/△/▷/◁ (down or up/right or left cursor) buttons to highlight your selection, then press **OK**.
3 To exit the menu, press **DISC MENU** again.

Note: Most DVDs do not have separate disc and title menus, but only a disc menu.

Disc menu

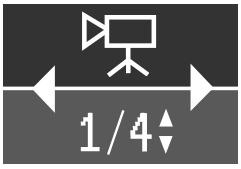


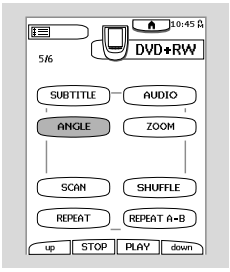


- Press **T/C** followed by **DISC MENU**.
➤ The disc menu is displayed.
- To remove the disc menu, press **DISC MENU** again.

Camera Angle

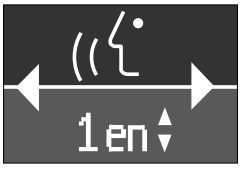
If the disc contains sequences recorded from different camera angles, the angle icon appears, showing the number of available angle, and the current angle. You can change the camera angle if you wish.



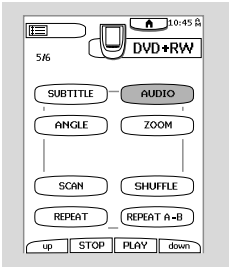


1 Press the angle button.
2 Use the ▽/△ (down or up cursor) buttons to select the required angle.
3 To go to any angle directly, enter the angle number using the numerical buttons **0-9**.
➤ After a small delay, play changes to the selected angle. The angle icon remains displayed until multiple angles are no longer available.

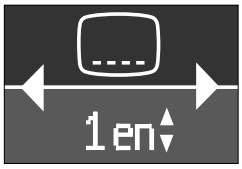
Changing the audio language



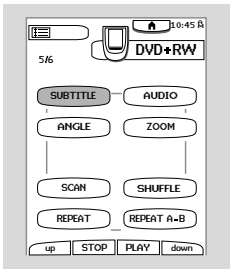
1 Press **AUDIO** on the remote to select (Audio) in the system menu bar.
2 Within five seconds, press **AUDIO** or ▽/△ (down or up cursor) repeatedly to see the different languages.
➤ You can enter the required language number directly using the numerical buttons **0-9**.



Subtitles

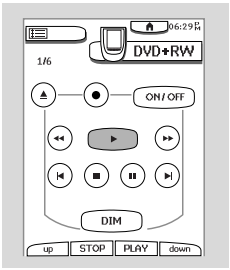


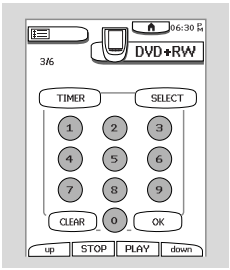
1 Press the **SUBTITLE** button to select (Subtitle) in the system menu bar.
2 Within five seconds, press **SUBTITLE** or ▽/△ (down or up cursor) repeatedly to see the different subtitles or to switch the subtitles off.
➤ You can enter a subtitle number directly using the numerical buttons **0-9**.

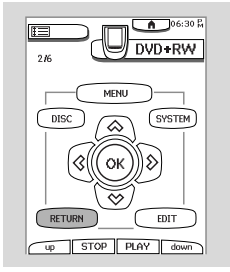


Special VCD features

Playback Control (PBC)



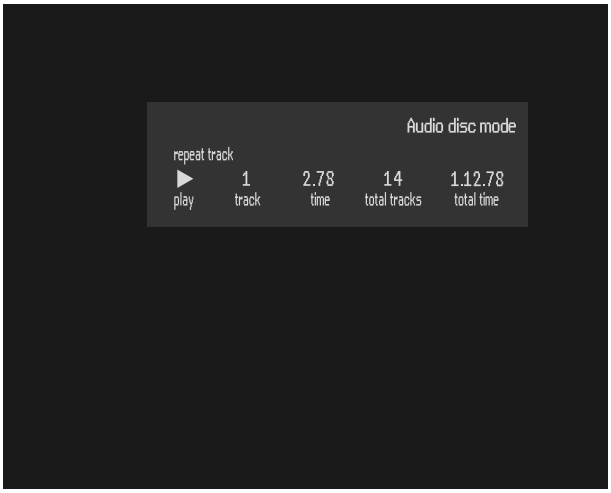




1 Make sure PBC is On. See 'User Preferences-features settings.'
2 Load a (Super) Video CD with PBC and press ▶ **PLAY**.
➤ The PBC menu appears on the TV screen.
3 Go through the menu with the buttons indicated on the TV screen until your chosen passage starts to play.
4 If a PBC menu consists of a list of titles, you can select a title directly. Enter your choice with the numerical buttons **0-9**.
5 Press **RETURN** to go back to the previous menu.

Playing an Audio CD

1 Insert the disc.
➤ After loading the disc, playback starts automatically.
➤ If the TV is on, the Audio CD screen appears.
➤ During play, the current track number and its elapsed playing time will show on the TV screen and on the Recorder display.

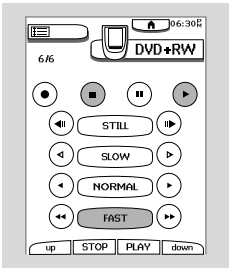


2 To stop play at any time, press ■ **STOP**.
➤ The number of tracks and the total playing time will show on the TV screen and on the Recorder display.

Pause

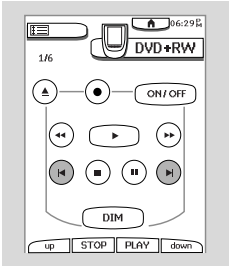
- Press **II PAUSE** during play.
- To return to play, press ▶ **PLAY**.

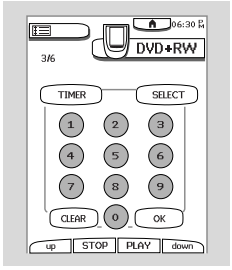
Search



1 To search forward or backward through the disc at four times the normal speed, press ◀◀ **REVERSE** or ▶▶ **FORWARD**.
➤ Search begins and the sound is intermittent.
2 To step up to eight times the normal speed, press ◀◀ **REVERSE** or ▶▶ **FORWARD** again.
➤ Search goes to 8x speed, and the sound is mute.
3 To return to four times the normal speed, press ◀◀ **REVERSE** or ▶▶ **FORWARD** again. If the TV is on, search speed and direction are indicated on the screen each time ◀◀ **REVERSE** or ▶▶ **FORWARD** is pressed.
4 To end the search, press ▶ **PLAY or** ■ **STOP** as desired.

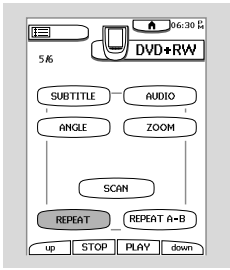
Moving to another track





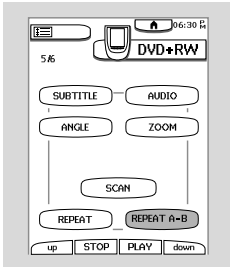
- Press ▶| **NEXT** during play to step forward to the next track.
- Press |◀ **PREVIOUS** during play to return to the beginning of the current track. Rapidly press |◀ **PREVIOUS** repeatedly to step back to previous tracks.
- To go directly to any track, enter the track number using the numerical buttons **0-9**.

Repeat track/disc



- To repeat the currently playing track, press **REPEAT**.
➤ Repeat track appears on the TV screen in the Audio Disk Modebox.
- To repeat the entire disc, press **REPEAT** a second time.
➤ Repeat disc appears on the TV screen in the Audio Disk Modebox.
- To exit repeat mode, press **REPEAT** a third time.

Repeat A-B

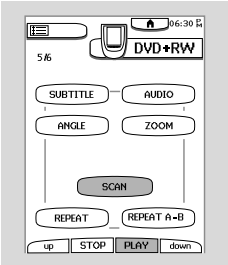


To repeat a specific segment of a Track:
- Press **REPEAT A-B** at your chosen starting point.
➤ Repeat A appears on the TV screen in the Audio Disk Modebox.
- Press **REPEAT A-B** again at your chosen end point.

➤ Repeat A-B appears on the TV screen in the Audio Disk Modebox and the segment begins to play repeatedly.

- To exit the segment and return to normal playback, press **REPEAT A-B** again.

Scan



Scan plays the first 10 seconds of each track on the disc.

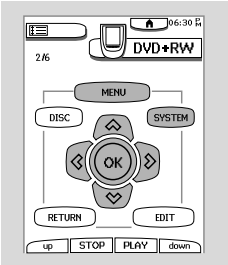
1 Press **SCAN**. The first 10 seconds of each track will play, beginning with the current track.
2 To continue play at your chosen track, press **SCAN** again or press ▶ **PLAY**.

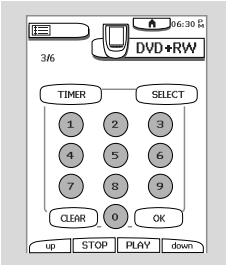
Access control

Child Lock (DVD and VCD)

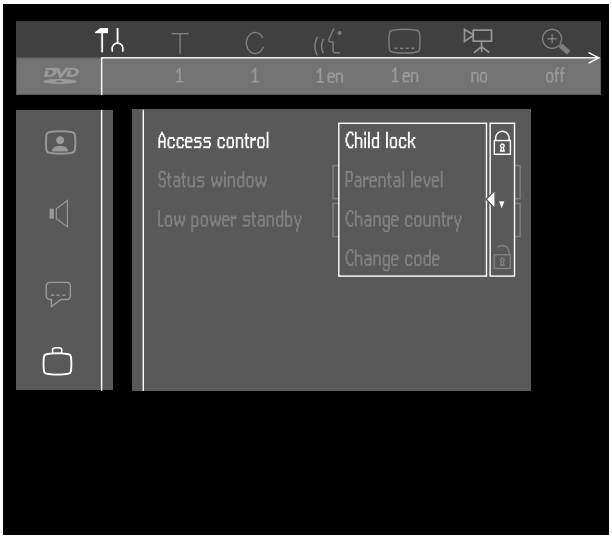
When activating Child lock, only discs that are authorized can be played without entering a code.
The Recorder memory maintains a list of 50 authorized ('Child safe') disc titles. A disc will be placed in the list when you select 'Play always'. Each time a 'Child safe' disc is played it will be placed on top of the list. When the list is full and a new disc is added, the last disc in the list will be removed.

Activating/deactivating the child lock





1 Press **SYSTEM MENU**.
2 Press ◁ (left cursor) to select in the system menu bar.
3 Press ▽ (down cursor) repeatedly to select , then press ▷ (right cursor).
4 **Access control** will be selected in the features menu . Press ▷ (right cursor).
5 Enter a 4-digit code of your own choice (the first time) using the digit keys **0-9**.
6 Enter the code a second time.
7 Move to **Child lock** using ▽/△ (down or up cursor).
8 Move to / using ▷ (right cursor).



9 Select using △ (up cursor) if you want to lock the disc.
➤ Select to deactivate the Child Lock.
10 Press **OK** or ◁ (left cursor) to confirm. Press **SYSTEM MENU** to remove the menu.
➤ If you locked the disc, unauthorized discs will not be played unless the 4-digit code is entered.

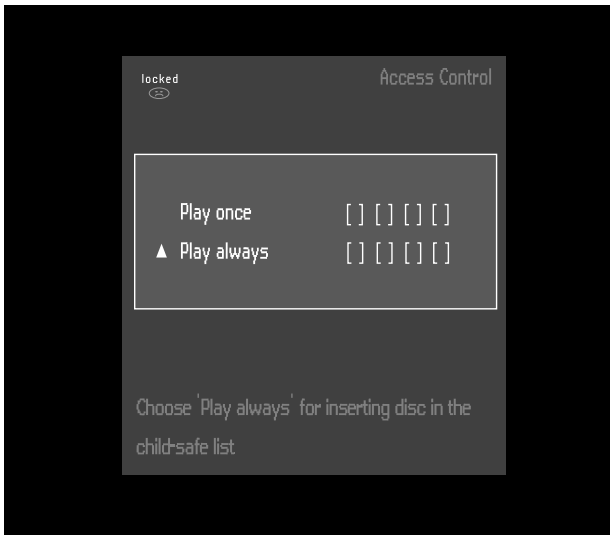
The disc will be locked and the Recorder will ask for your 4-digit code the next time you try to play the disc. You must turn the Recorder power Off, then On, for the Lock to take effect.

Note: Reconfirmation of the 4-digit code is necessary when:
the code is entered for the very first time;
the code is changed (see 'Changing the 4-digit code');
the code is cancelled (see 'Changing the 4-digit code');
Child Lock or Parental Control you switch off.

Authorizing discs when Child Lock is activated

1 Insert the disc.
➤ The 'Access Control box' will appear. You will be asked to enter your code for 'Play once or 'Play always.'
2 Press ▽/△ (down or up cursor) to choose '**Play once**' or '**Play always**.' Then use the **0-9** buttons to enter your code.
3 Play will begin. If you select '**Play once**,' the disc can be played as long as it is in the Recorder and the Recorder is On. If you select '**Play always**,' the disc will become Child safe (unlocked) and can always be played even if the Child lock is **On** as described left.

Note: Double sided DVD discs may have a different ID for each side. In order to make the disc 'child safe,' authorize each side.
Multi volume Video CDs may have a different ID for each volume. In order to make the complete set 'child safe,' authorize each volume.



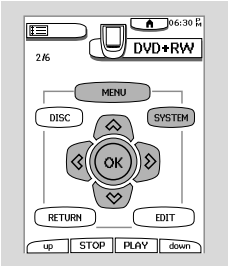
Locking Discs that were formerly Unlocked

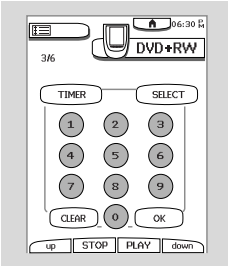
1 Insert the disc.
➤ Playback starts automatically.
2 Press ■ **STOP** while ☺ is visible.
➤ ☹ will appear and the disc is now locked.
However, the disc will continue to play. The disc will be locked and the Recorder will ask for your 4-digit code the next time you try to play the disc. You must turn the Recorder power Off, then On, for the Lock to take effect.

Parental Level (DVD-Video only)

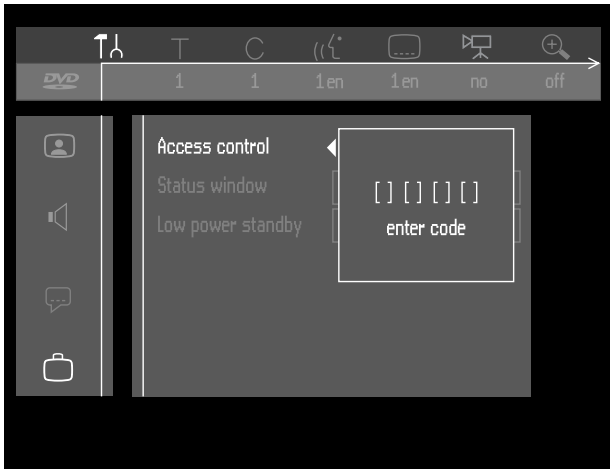
Movies on pre-recorded DVD discs may contain scenes not suitable for children. Therefore, some discs may contain 'Parental Control' rating information that applies to the complete disc or to certain scenes on the disc. If the disc is rated, scenes are rated from 1 to 8, alternative, more suitable scenes may be available on the disc. Ratings are very among countries. The 'Parental Control' feature allows you to prevent your children from playing discs or play certain discs with alternative scenes.

Activating/Deactivating Parental Control

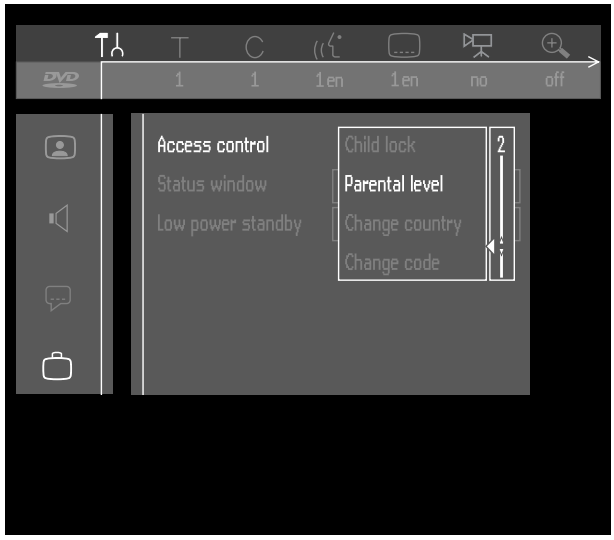




1 Press **SYSTEM MENU**.
2 Press ◁ (left cursor) to select in the system menu bar.
3 Press ▽ (down cursor) repeatedly to select , then press ▷ (right cursor).
4 **Access control** will be selected in the features menu . Press ▷ (right cursor).



5 Enter your 4-digit code using the digit buttons **0-9**. If necessary enter the code a second time.
6 Move to **Parental level** using ▽/△ (down or up cursor.)
7 Select the Value Adjustment bar at the right of the screen by pressing ▷ (right cursor.)



8 Use the ▽/△ (down or up cursor) buttons or the numerical buttons **1-8** on the remote control to select a rating from 1 to 8 for the currently inserted disc.

Rating 0 (displayed as '– –'):
Parental Control is not active. The disc will play in full.
Ratings 1 to 8 (1 = childsafe - 8 = adults only):
The disc contains scenes not suitable for children. If you set a rating for the Recorder, all scenes with the same rating or lower will play. Higher rated scenes will not play unless an alternative is available on the disc. The alternative must have the same rating or a lower one. If no suitable alternative is found, play will stop and you must enter the 4-digit code.
9 Press **OK** or ◁ (left cursor) to confirm and press **SYSTEM MENU** to move the menu.

Country

1 Press **SYSTEM MENU**.
2 Press ◁ (left cursor) to select ⚒ in the system menu bar.
3 Press ▽ (down cursor) repeatedly to select 🧳, then press ▷ (right cursor).
4 Access control will be selected in the features menu 🧳. Press ▷ (right cursor).
5 Enter the four digit code using the **0-9** buttons.
6 Move to Change country using ▽ (down cursor.)
7 Press ▷ (right cursor.)
8 Select the country for which your disc is coded using ▽/△ (down or up cursor.) See the disc case for details on whether it has Parental Level settings for specific countries. If it does not, this procedure is not necessary.
9 Press **OK** or ◁ (left cursor) to confirm. Press **SYSTEM MENU** to exit the menu.

Changing the 4-digit code

1 Press **SYSTEM MENU**.
2 Press ◁ (left cursor) to select ⚒ in the system menu bar.
3 Press ▽ (down cursor) repeatedly to select 🧳, then press ▷ (right cursor).
4 Access control will be selected in the features menu 🧳. Press ▷ (right cursor).
5 Enter the old 4-digit code using the **0-9** buttons.
6 Move to Change code using ▽ (down cursor.)
7 Press the ▷ (right cursor) button.
8 Enter the new 4-digit code using the **0-9** buttons.
9 Enter the exact same code a second time and reconfirm by pressing **OK**.
10 Press **SYSTEM MENU** to exit the menu.

*Note: If you forgot your code, press ■ **STOP** four times at step 5, then press **OK**. Access control is now off. You can enter a new code as described above.*

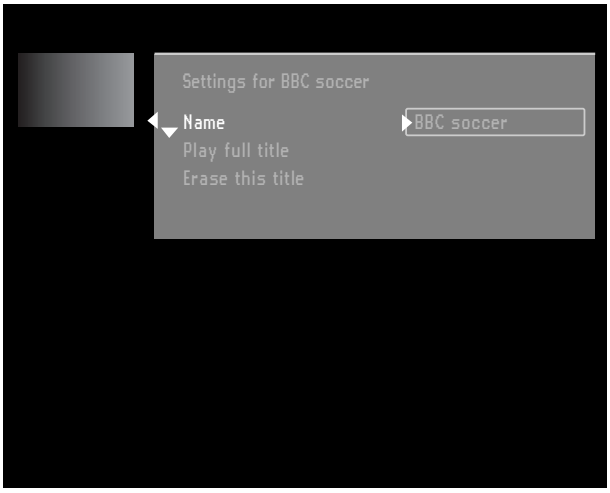
Managing disc content (DVD+RW only)

Title settings

You can change each title on the disc to your personal preference in the title settings menu.

1 Stop disc playback if necessary. In the Index Picture Screen, select the required title with ▽/△ (down or up cursor).

2 Press ▷ (right cursor) to enter the title settings menu for that title.



3 Use ▽/△ (down or up cursor) to select the item you wish to change, then follow the steps as directed below.

Changing name of a recording

4 Press ▷ (right cursor) to select Name.

5 Enter the new name. A name may contain a maximum of 64 characters.

- Use ◁/▷ (left or right cursor) for the position of the characters. Use ▽/△ (down or up cursor) to change characters.
- Use **SELECT** to toggle between capital and lower case characters.

6 Confirm by pressing **OK**.

Play full title

4 Press ▷ (right cursor) to select 'Play full title'. When this item is selected, the title will be played in full, including hidden chapters, beginning immediately. Follow the instructions on the screen. (See 'Operation - managing disc content - Current chapter')

Erase this title

You may simply erase a title by recording over it, but if you want to erase the whole title instantly, do the following:

4 Press ▷ (right cursor) to select 'Erase this title', then press **OK**.
➤ The message 'This will completely erase this title', 'Press OK to confirm' is shown.

5 Press **OK** a second time.
➤ 'Erasing title...' is shown until the action is completed.
➤ After the title has been erased, the Index Picture Screen will show an empty space instead of the Title. If there was an empty space in front of or behind this title, then these are combined into one empty space. Empty spaces of less than one minute will not be shown.

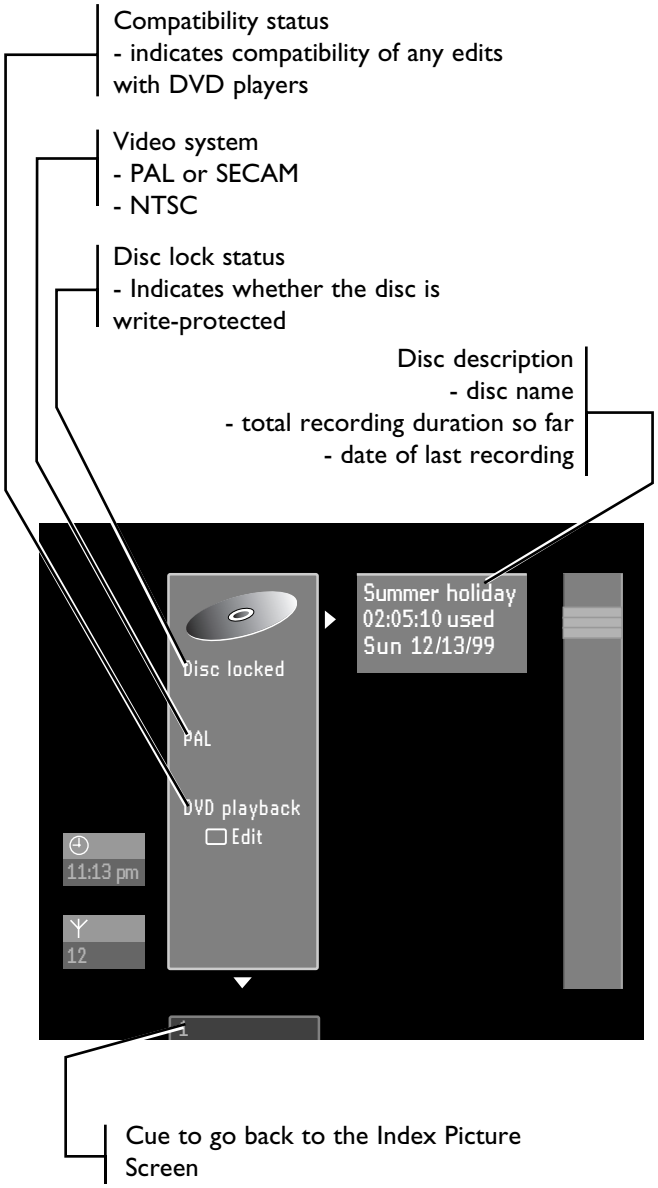
Disc Information Screen

1 When in the Index Picture Screen, press ■ **STOP** or press and hold ⏮ **PREVIOUS** for about two seconds.
➤ This selects the first title on the DVD+RW.

2 Press △ (up cursor).
➤ You enter the Disc Information Screen.

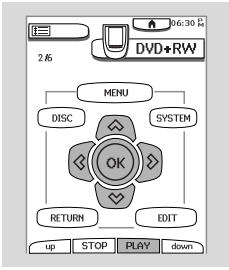
3 Press ▽ (down cursor) to exit the Disc Information Screen and return to the Index Picture Screen.

The Disc Information Screen contains the following information:

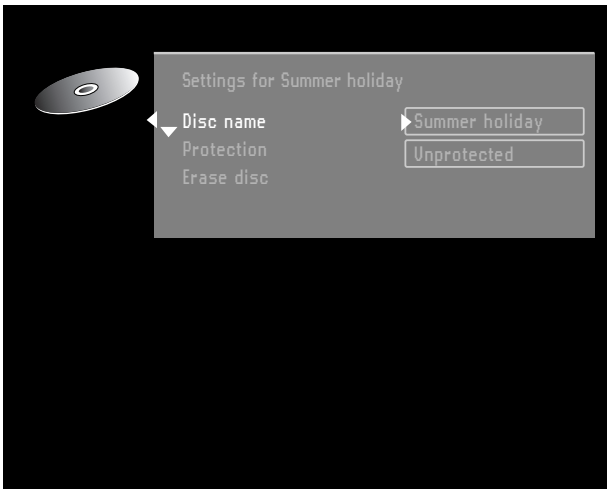


Disc Settings

You can change disc settings from the Disc Information Screen.



1 When in the Index Picture Screen, press ■ **STOP** or press and hold ⏮ **PREVIOUS** for about two seconds.
➤ This selects the first title on the DVD+RW.
2 Press △ (up cursor).
➤ You enter the Disc Information Screen.
3 In the Disc Information Screen, press ▷ (right cursor.)
➤ You will enter the 'Settings' menu.



4 Use ▽/△ (down or up cursor) to select the item you wish to change, then follow the steps below for each item.

Disc name

5 Press ▷ (right cursor) to select '**Disc name**'.
6 Enter the new name. A name may contain a maximum of 64 characters.
Use ◁/▷ (left or right cursor) for the position of the characters. Use ▽/△ (down or up cursor) to change characters.
● Use **SELECT** to toggle between capitals and lower case characters.
7 Confirm the name by pressing **OK** when you are finished.

Protection

6 Select **Protection**. Press ▷ (right cursor) to select Protection.
7 Select '**Protected**' with ▽/△ (down or up cursor.)
8 Press **OK**.
➤ No further changes can be made to the disc including recording. 'Disc Locked' will appear on the TV screen if you attempt recording.
It will also disable most title/disc manipulation screen entries, as well as the complete edit menu.
➤ Future editing or recording is only possible after resetting the Protection feature to '**Unprotected**' again.

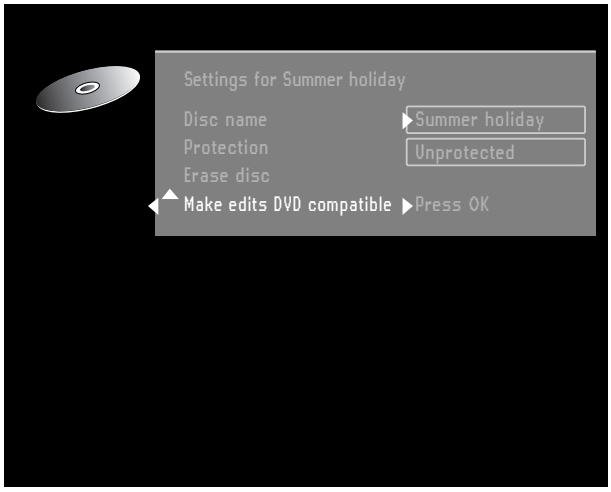
Erase disc

6 With '**Erase disc**' selected and press **OK**.
➤ The message '**This will erase all titles**' is displayed. Press **OK** to confirm.
● Press **OK** to confirm and begin erasing or press ◁ (left cursor) to cancel.
➤ '**Erasing disc**' is shown until the action is completed.
➤ After the disc has been erased the Index Picture Screen will show the free space on the disc.

Make edits DVD-compatible

If titles have been edited (See 'Favorite Scene Selection'), the edits will play on your DVD Recorder. However a DVD player may show the original versions instead of the edits. You can prepare your discs so that a DVD player will also play the edited version.

1 If the Disc Information Screen shows the option '**Make edits DVD-compatible**', press ▷ (right cursor) to select this option. If the menu does not show this option, your disc is already compatible. No conversion is needed.



2 Press **OK**.
➤ The messages '**This will take** ...' and '**Press OK to confirm**' will appear to indicate how long the action will take.
3 Press **OK**.
➤ '**Working**...' and a progress bar are shown until the action is completed.

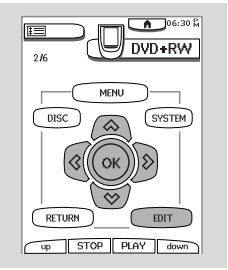
Favorite Scene Selection

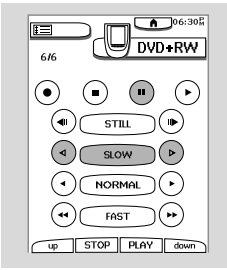
Press the **EDIT** button on the remote control, to access Favorite Scene Selection (FSS). The basic function of edit operations is Editing improves accessibility and handling of your recordings. For instance; scenes you do not want to see during playback (e.g. commercials during a movie) can be marked as chapters and hidden. During playback you will watch your recording without the hidden chapters.

Note:
The picture may freeze briefly between scenes.

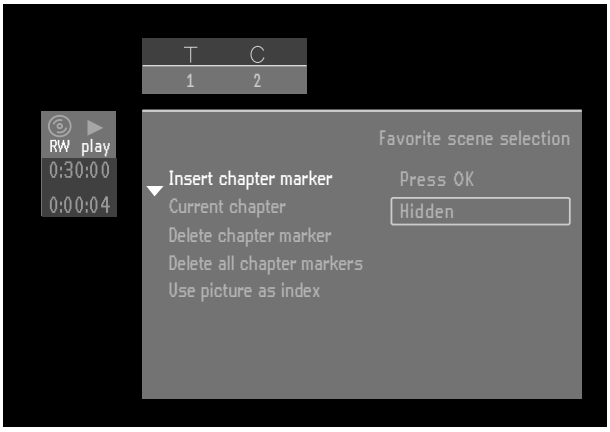
Each title consists of chapters. With the FSS menu any chapter can hidden or made visible. Normally during recording, chapter markers are inserted automatically every five to six minutes. (This setting can be changed in the record settings menu). After the recording is finished, you can manually add and remove chapter markers via the FSS menu. Both automatically generated and manually inserted chapter markers can be removed.

Edit during playback





1 During DVD+RW playback, press the **EDIT** button on the remote control.
➤ The video image is overlayed with a transparent edit menu. Current title and chapter information appear in an information box at the top of the screen.

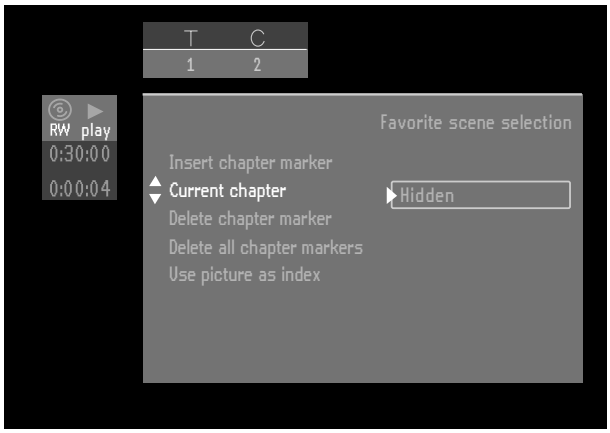


2 Use ▽ or △ (down or up cursor) to select an item, then continue as directed for each feature at right and the following next page.

Insert chapter marker
To insert a chapter marker on the current position of the title that is playing:
- With Insert chapter marker selected, press **OK** on the remote control to insert a marker.

The maximum number of chapter markers per title is 99. Per disc, the maximum number of chapter markers is 254. When the maximum number is reached, the on-screen message '**Too many chapters**' appears. You will have to delete some before inserting new chapter markers.

Current chapter
Initially all chapters are visible. You can hide chapters or make them visible again during playback. When playing a disc while the Favorite Scene Selection now is on the screen, hidden chapters play through in a dimmed mode.



- With '**Current chapter**' selected, press ▷ (right cursor) repeatedly to select **Visible** or **Hidden**.
- Press **OK** on the remote control to confirm.

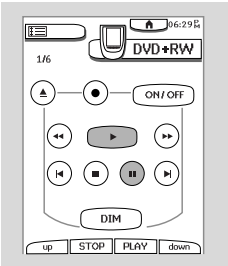
Delete chapter marker
To delete the chapter marker at the beginning of the current chapter:
- While '**Delete chapter marker**' is selected, press **OK** on the remote control.

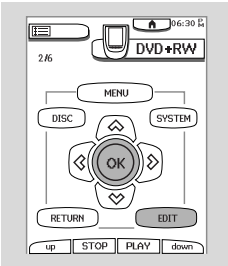
Delete all chapter markers in this title
To delete all chapter markers (manually and automatically generated) for this title:
- With '**Delete all chapter markers in this title**' selected, press **OK**. '**This will delete all markers in this title . Press OK to confirm** will appear. Press **OK** again.

Use picture as index
To define the current video frame as a miniature picture to be used for this titles entry in the Index Picture Screen:
- You can use **II PAUSE** and/or ▷ **SLOW** to accurately choose the desired picture.
- With '**Use picture as Index**' selected, press **OK**. '**This will update the index picture. Press OK to confirm**' will appear. Press **OK** again.
➤ '**Updating menu.**' will appear, then the Index picture screen will reappear.

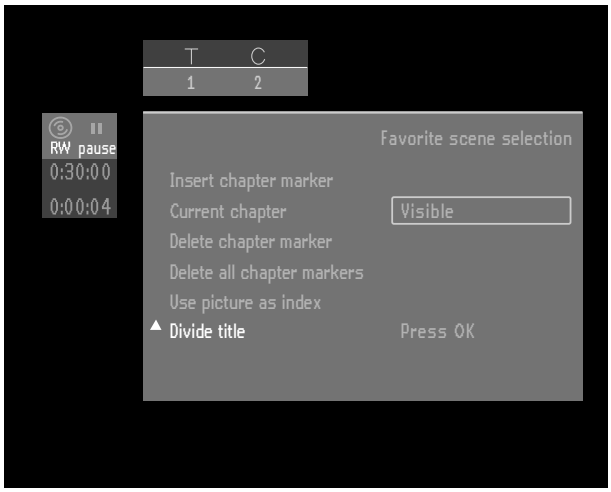
After editing, the modified version of a title is the default playback version. The original can be accessed via the '**Play full title**' option in the title settings menu. Other DVD players may still play the original. To guarantee that the edited version will play on these DVD players, choose '**Make edits DVD-compatible**' in the disc settings menu.

Divide a title
If you want to divide one title into two separate titles, do the following:





1 On the Index Picture Screen, press ▽/△ (down or up cursor) buttons to select the title you want to divide.
2 Press ▶ **PLAY**.
3 Play the disc to the point where you want to divide the title and press **II PAUSE**.
4 Press **EDIT**.
➤ The Favorite scene Selection menu is shown.
5 Press ▽ (down cursor) to select '**Divide title**.'

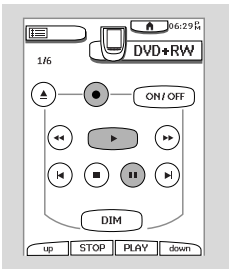


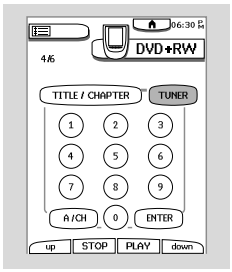
6 Press **OK**. '**This will divide this title into two separate titles. Press OK to confirm**' will appear.
➤ '**Dividing title...**' is shown until the action is completed. This divide operation cannot be undone.
7 Press **OK** again.

The Index Picture Screen will show two titles instead of one. Both will have the same name. If you want to change the name, you can do so in the title settings menu. For one of the two resulting titles, a new index picture is created at the point at which you divided the title.

If you want to divide one title into more than two titles, use the above procedure several times.

Append recording





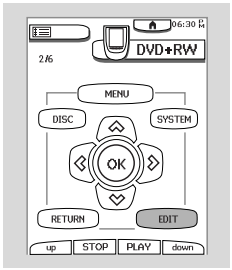
If you want to append a video recording to an earlier recorded title, do the following.
1 On the Index Picture Screen, select the title to which you want to add a video recording.
2 Press ▶ **PLAY**.
3 At the point where you want to append the new recording press **II PAUSE**.
4 Press **TUNER** then press **P+/-** to select the channel you want to record.
5 Press **RECORD** (on the Recorder) or **REC/OTR** (on the remote control).

The new video recording will you selected be appended at the point. Video material beyond this point is overwritten. This may include titles following the current title.

Any remaining video material that is not overwritten, which may include the last part of the original title, is maintained. You can access these titles from the Index Picture Screen.
6 Press ■ **STOP** to stop recording.

Inserting Chapter Markers during recording

- Press the **EDIT** button on the remote control during recording.
➤ A chapter marker is inserted at the current position. '**Inserting marker**' appears on the left side of the screen. The maximum number of chapter markers per title is 99. Per disc the maximum number of chapter markers is 254. When the maximum number is reached, the on-screen message '**Too many chapters**' appears. You will have to delete some, before inserting new chapter markers.



Troubleshooting

If it appears that the DVD Recorder is faulty, first consult this checklist. It may be that something has been overlooked. Under no circumstances attempt to repair the system yourself; this will invalidate the warranty. Look for the specific symptom(s). Then perform only the actions listed to remedy the specific symptom(s).

Symptom	Remedy
The Recorder does not respond to the remote control	The remote control may be configured for a second DVD Recorder. Hold **SELECT +1** pressed simultaneously to revert to DVD Recorder 1. Aim the remote control directly at the sensor on the front of the Recorder. Avoid all obstacles which may interfere with the signal path. Inspect or replace the batteries in the remote control.
No power	Make sure power cord is properly connected. Check if there is power at the AC outlet by plugging in another appliance.
No picture	Check if the TV is switched on. Check the video connection.
Distorted picture distorted sound	Check the disc for fingerprints and clean the disc with a soft cloth, wiping from the center to the edge in a straight line. Sometimes a small amount of picture distortion may appear. This is not a malfunction.
Recorder does not play disc	Ensure the disc label is facing upward and the right disc type is inserted. Clean the disc. Check if the disc is defective by trying another disc. Check if the region code of the disc matches the region code of the Recorder (pre-recorded DVD discs only.) See 'playing a pre-recorded DVD-Video disc.' Check if Child Lock is activated.
No sound	Check audio connections. If using a HiFi amplifier, try another sound source.
Distorted sound from HiFi amplifier	Check to make sure that no audio connections are made to amplifier's phone input. Check to make sure that analog input of the amplifier is not connected to the digital output of the DVD Recorder.
Distorted or black and white picture with DVD or Video CD disc	The disc format does not match the color system of the TV (PAL/NTSC).
No audio at digital output	Check the digital connections. Check the settings menu to make sure the digital output is set to on. Check if the audio format of the selected audio language matches your receiver capabilities.
Buttons on the DVD Recorder do not work	Disconnect and reconnect the DVD Recorder from the power outlet. If this does not solve the problem, check if the remote control still works. If so, the Recorder is probably in trade mode. Disconnect the Recorder from the power source and reconnect it while pressing and holding ▲ **OPEN/CLOSE** and ■ **STOP** for a few seconds.
Recorder does not respond to all operating commands during playback	Some operations are not permitted by the disc. Refer to the instructions in the disc jacket or case.

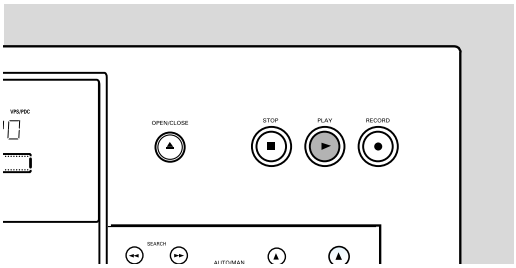
No new title can be recorded	Check if the maximum number of titles has been reached (message: '**Too many titles**' on screen.) If so, delete a title next to a free space. Check if the disc is write protected. If so, unlock the disc in the disc settings menu (message: '**Disc locked**' on screen.)
Two languages are 'mixed' when recording from a stereo VCR	When the TV does not automatically detect the dual-language signal, use left/right audio balance on the TV to amplify the one or the other language.
The disc can not be erased because the Index Picture Screen does not appear.	Open the tray while leaving the disc in. Press and hold **CLEAR** for about five seconds. The tray closes and the disc will be erased.
The Index Picture Screen does not appear but the titles on the disc still be play	Take out the disc. Clean the disc. Insert the disc. If available choose 'Adapt to own disc format' (see User Preferences - Features.)
A DVD player shows the Index Picture Screen but does not react to the ▶ PLAY button.	Press ■ **STOP** to exit the Index Picture Screen, then press ▶ **PLAY**.

Diagnosis program

If the Recorder is still faulty you can start the Diagnosis Program in the Recorder.

You can operate the Diagnosis Program by following these instructions step by step.

Instructions



1 Unplug the power cord of the Recorder.
2 Press and hold the ▶ **PLAY** button while you reconnect the power cord of the Recorder.
➤ On the display BUSY appears with number. The number is 0 when the test is done. Release the ▶ **PLAY** button.
➤ After a few minutes, the message changes from BUSY to FAIL or PASS.
3 If FAIL appears on the display, there is apparently a failure in your Recorder. Your Recorder should be repaired. Consult your dealer or the Philips Customer Care Center for the nearest Authorized Service Center in your country. The phone number is in your warranty booklet.
4 If PASS appears on the display, there is apparently no failure in your Recorder in this case, one failure can be caused by incorrect interpretation of the operating instructions, a wrong disc in use, or incorrect connections. Consult your dealer or the Philips Customer Care Center for further assistance in solving the problem.
5 Unplug the power cord, then reconnect it to a power source and use the DVD Recorder again as usual.

System limitations

A DVD+RW disc may not play on certain DVD Video players.

A DVD+RW disc recorded on a different type or brand of Recorder can play, but may not provide all features commonly available to it, such as the on-screen disc bar, the disc settings menu, the title settings menu, and editing.
Refer to 'Adapt disc format.' If the disc is erase-protected, the status cannot be changed.

When using manual recording, the DVD Recorder will advise you before adapting the format of the disc or removing non-video data (See 'Before you start recording'.) When using timer recording, however, the DVD Recorder will always start to record, unless the disc is write-protected. Menus, edits and other data recorded on a different device (e.g. a PC) may be lost.

Because of the Variable Bit Rate, a title map takes up less or more space than the overwritten title, even though the duration is the same. As a result, part of the original title may remain, or part of the next title may be lost. The maximum deviation is five minutes.

When you connect a remote control to the IN RC6 Remote Control Input on the back of the Recorder, the first signals from the remote control may be lost.

After a power interruption during recording, the Index Picture Screen may not match the actual video content on the disc. The last recorded title may be lost.

Glossary

This section explains most important terms, abbreviations, and acronyms used in this document.

Term	Explanation
AC-3	Audio Coding 3, also known as Dolby Digital. Multi-channel digital audio compression system from Dolby Labs.
A/V	Audio/Video
Chapter	A part of a title.
Disc Bar	A graphical representation of the contents of a (DVD+RW) disc.
Disc Pointer	An arrow indicating the current playback/recording position on the DVD+RW disc, appears on the 'disc bar'.
DTS	Digital Theater System. A high-end Multi-channel audio compression format.
DV	Digital Video. A camcorder format for high-quality video, different from MPEG. It is converted into MPEG 2 video when recorded on DVD-RW.
DVD	Digital Versatile Disc
DVD+RW	DVD+ReWritable. The disc standard used by the DVD Recorder.
i.LINK	Also known as 'FireWire' and 'IEEE 1394.' A cable for transfer of high band width digital signals as used by Digital Video camcorders.
Index Picture Screen	A screen that gives an overview of a DVD+RW disc, with 'index pictures' that each represent a recording.
MPEG	Motion Picture Experts Group. A collection of compression systems for digital audio and video.
NTSC	See TV system. NTSC is the most common color system in the U.S.
OSD	On-screen Display. The menus by which you can control the DVD Recorder via the TV screen.
OTR	One-Touch Recording. With this feature you can easily start a recording (by pushing just one button) and select the switch-off time in intervals of 30 minutes.
PAL	See TV system.
PBC	Playback Control. A special feature on a VCD 2.0 or Super VCD that enables interactive use.
PBS	Public Broadcast Service. The channel that transmits data for Auto Clock Set and VCR Plus+ programming.
PCM	Pulse Code Modulation. A digital audio encoding system.
RGB	Red-Green-Blue. A top-quality video connection where red, green and blue components of a video signal are carried through separate wires.
SECAM	See TV system.

S-Video	Sometimes called S-VHS or Super-VHS. A high-quality video connection standard.
Title	The name given to the unit of recording on the disc. A title, typically, represents one recording.
TruSurround	A system for simulating Multi-channel sound reproduction via a two-channel set-up, by SRS Labs, Inc.
TV system	There are various systems for transmitting television signals, for example PAL, PAL-I, PAL-BG, SECAM, SECAM-DK, NTSC, etc. The TV system is country dependent. The Recorder automatically selects the right TV system.
VCD	Video Compact Disc
VCR	Video Cassette Recorder
VCR Plus+	A system by which you can easily program the timer recording by entering a code of maximum eight digits, which is printed in TV guides. 'VCRPlus+' is a trademark of Gemstar Development Group.

Notes

Specifications

DISC FORMATS SUPPORTED

Disc type	Playback	Recording
DVD+RW	•	•
DVD-R	•	—
DVD-Video	•	—
SVCD	•	—
Video CD	•	—
Audio CD	•	—
CD-R	•	—
CD-RW	•	—

DVD+REWRITABLE DISC FORMAT

Medium	Phase-Change ReWritable		
Diameter	12 cm		
Capacity (single side)	4.7 Gbyte		
Recording time	HQ	60'	9.72 Mbit/s
	SP	120'	5.07 Mbit/s
	LP	180'	3.38 Mbit/s
	EP	240'	2.54 Mbit/s

TV STANDARD	PAL/SECAM	NTSC
Scan Frequency	50Hz	60Hz
Number of lines	625	525
Playback	•	•
Recording	•	•
Internal tuner	—	•

VIDEO FORMAT

Digital Compression	MPEG2 for DVD MPEG1 for VCD

VIDEO RESOLUTION	50Hz	60Hz
DVD-Video/ DVD+RW(HQ/SP)		
• Horiz. Resolution	720 pixels[1]	720 pixels[1]
• Vertical Resolution	576 lines	480 lines
DVD+RW (LP/EP)		
• Horiz. Resolution	360 pixels[2]	360 pixels[2]
• Vertical Resolution	576 lines	480 lines
VCD		
• Horiz. Resolution	352 pixels	352 pixels
• Vertical Resolution	288 lines	240 lines

[1] equivalent to 500 lines on your TV

[2] equivalent to 250 lines on your TV

VIDEO PERFORMANCE

DA Converter	10-bit
AD Converter	9-bit
Signal handling	Components
Video Output	1 Vpp into 75 Ohm
S-video Output	Y: 1 Vpp into 75 Ohm C: 0.300 Vpp into 75 Ohm
Component/Progressive out	Y: 1Vpp into 75 Ohm P_B: 0.7 Vpp into 75 Ohm P_R: 0.7 Vpp into 75 Ohm

AUDIO FORMAT

Compressed digital	Playback	Recording
• Dolby Digital (AC-3)	Multi-channel	2-channel 16 bit, fs 48 kHz
• DTS	Multi-channel	—
• MPEG1	2-channel	—
• MPEG2	Multi-channel	—
Uncompressed digital (SP dif)		
• PCM	2-channel 16, 20, 24 bit fs 48,96 kHZ	—

AUDIO PERFORMANCE

DA Converter	24 bit	
AD Converter	16 bit	
DVD	fs 96 kHz	4 Hz - 44 kHz
	fs 48 kHz	4 Hz - 22 kHz
Video CD	fs 44.1 kHz	4 Hz - 22 kHz
Audio CD	fs 44.1 kHz	4 Hz - 20 kHz
Signal-Noise (1kHz)	105 dB	
Dynamic Range (1kHz)	100 dB	
Crosstalk (1kHz)	110 dB	
Distortion/Noise (1kHz)	90 dB	

FRONT CONNECTIONS

i.LINK DV	IEEE 1394 4-pin
S-video Input	Hosiden 4-pin*
Video Input	Cinch (yellow)*
Audio Left/Right Input	Cinch (white/red)*

REAR CONNECTIONS

Component Video In	Cinch (green/blue/red)*
Component Video Out	Cinch (green/blue/red)*
Progressive Scan Out	Cinch (green/blue/red)*
S-video In	Hosiden 4-pin
S-video Out	Hosiden 4-pin
Video In	Cinch (yellow)*
Video Out (2x)	Cinch (yellow)*
Audio L/R In (2x)	Cinch (white/red)*
Audio L/R Out (2x)	Cinch (white/red)*
Digital Audio Out	1 coaxial*, 1 optical IEC958 for CDDA / LPCM IEC1937 for MPEG2, Dolby Digital
RF Antenna In	Coaxial 75 ohms
RF TV Out	Coaxial 75 ohms
Power	Standard (IEC type)

* gold-plated

USER INTERFACE

OSD Languages	English, French, Spanish

PROGRAMMING

Number of events	6; 1 year; Daily/Weekly
Programming mode	OTR, Remote
Timer programming	Manual, VCR Plus+

DISC RECORDING

- Direct Record
- One-Touch Record (OTR)
- Append
- Divide
- Erase
- Automatic/Manual Chapter Marker insertion
- Disc write lock
- Favorite Scene Selection
- Index Picture Screen
- Custom Index Pictures
- Automatic/Manual Audio Recording Level

DISC PLAYBACK

- Auto Resume (20 disc)
- Play / Stop / Pause
- Fast Forward/Backward (three speeds)
- Step Forward/Backward
- Slow (three speeds)
- Title / Track Select
- Next / Previous Title / Track / Chapter
- Repeat (Chapter / Title / All) or (Track / All)
- A-B Repeat
- Intro Scan
- Perfect Still with digital multi-tap filter
- Zoom (x1.33, x2, x4) with picture enhancement
- Pan

GENERAL FUNCTIONALITY

- 3D sound (SRS TruSurround)
- Beep Feedback for Remote Control
- Backup Presets & Timer Events: 1 year
- Backup Clock & Calendar: 7 hours
- Time & Date Download from PBS channel

POWER SUPPLY

AC power:	polarized (IEC)	
Power supply	100 - 120V AC 50/60 Hz	
Power consumption	Operation	36 W
	Low-power standby	3 W

CABINET

Dimensions (W x H x D)	17x4,3x13 inch
Net Weight	8.8 kg
Front Panel	Aluminium

type no. of product • Numéro de série du produit

DVDR 1500 _____

Date of purchase • Date d'achat • Kaufdatum • Koopdatum • Fecha de compra • Data da compra • Data di acquisto • Købsdato • Kjøpedato • Inköpsdato • Ostopäivä

day • Jour month • Mois year • Année **20**

Dealer's name, address and signature • Nom, adresse et signature du revendeur • Name, Anschrift und Unterschrift des Händlers • Naam, adres en handtekening van de handelaar • Nombre, dirección y firma del distribuidor • Nome, indirizzo e firma del fornitore • Nome, morada e assinatura do vendedor • Forhandlerens navn, adresse og underskrift • Återförsäljarens namn, adress och namnteckning • Myyjän nimi, osoite ja allekirjoitus

The products and services described herein are not necessarily available in all countries

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Printed in Belgium. 3104 125 2414.1

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