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while with your product.



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PHILIPS

Return your Product Registration Card today to get the very most from your purchase.

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*Proof of Purchase

Returning the enclosed card guarantees that your date of purchase will be on file, so no additional paperwork will be required from you to obtain warranty service.

*Product Safety Notification

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PHILIPS

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Most importantly, you can count on our uncompromising commitment to your total satisfaction.

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P.S. To get the most from your PHILIPS purchase, be sure to complete and return your Product Registration Card at once.

Know these safety symbols



 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 reduce the risk of fire or electric shock, this apparatus should not be exposed to rain or moisture, and objects filled with liquids, such as vases, should not be placed on this apparatus.

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

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

For Customer Use

Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No. _____

Serial No. _____

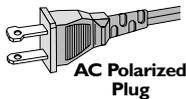
PHILIPS

Visit our World Wide Web Site at <http://www.philips.com>

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Do not defeat the safety purpose of the polarized or grounding-type plug.



A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.

Class II equipment symbol 
This symbol indicates that the unit has a double insulation system

12.  Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. Battery usage **CAUTION** – To prevent battery leakage which may result in bodily injury, property damage, or damage to the unit:

- Install **all** batteries correctly, + and - as marked on the unit.
- Do not mix batteries (**old** and **new** or **carbon** and **alkaline**, etc.).
- Remove batteries when the unit is not used for a long time.

16. Apparatus shall not be exposed to dripping or splashing.

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

18. This product may contain lead and mercury. Disposal of these materials may be regulated due to environmental considerations.

For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance : www.eiae.org.

EL 6475-E005: 04/01

LASER

Type	Semiconductor laser InGaAlP (DVD) AlGaAs (CD)
Wave length	658 nm (DVD) 790 nm (CD)
Output Power	30 mW (DVD+RW write, DVD-RW write) 1.0 mW (DVD read) 1.0 mW (CD read)
Beam divergence	84 degrees (DVD) 61 degrees (CD)

Canada

English:

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.

Français:

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de Class B prescrites dans le Règlement sur le Brouillage Radioélectrique édicté par le Ministère des Communications du Canada.

This warning label is located on the rearside and inside this laser product.

CAUTION: INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM.
DANGER: INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.
VARO! AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINANAKI/MATTOMAALE LASERATEILYLLE. ALA KATSO SÄTEESEEN.
WARNING! OSYNYLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. OCH SPÄRREN ÄR URKOPPLAD. BETRÄKTA EJ STRÅLEN.

or

DANGER - Invisible laser radiation when open.
AVOID DIRECT EXPOSURE TO BEAM.

CAUTION

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

ATTENTION

L'utilisation des commandes ou réglages ou le non-respect des procédures ci-incluses peuvent se traduire par une exposition dangereuse à l'irradiation.

ATENCIÓN

El uso de mando o ajustes o la ejecución de métodos que no sean los aquí descritos puede ocasionar peligro de exposición a radiación.

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

*CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 525 OR 625 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 525p AND 625p DVD PLAYER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.'

Declaration of Conformity

Model number: DVDR3355
Trade Name: Philips
Responsible Party: Philips Consumer Electronics
A Division of Philips Electronics
North America Corp.
P. O. Box 671539
Marietta, GA 30006-0026
1-800-PHILIPS (744-5477)

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Environmental information

All unnecessary packaging has been omitted. We have tried to make the packaging easy to separate into three materials: cardboard (box), polystyrene foam (buffer) and polyethylene (bags, protective foam sheet).

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

This system complies with the FCC rules, Part 15 and with 21 CFR 1040.10. Operation is subject to the following two conditions:

- **This device may not cause harmful interference, and**
- **This device must accept any interference received, including interference that may cause undesired operation.**



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



This connection is also known as 'FireWire' and 'IEEE 1394.' This connection is used for the transfer of high bandwidth digital signals as used by digital video (DV) camcorders. Audio and video signals are transmitted using a cable.



DivX®, DivX Certified, and associated logos are trademarks of DivX Networks, Inc and are used under license.



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

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



VCR Plus+ and PlusCode are registered trademarks of Gemstar Development Corporation. The VCR Plus+ system is manufactured under licence from Gemstar Development Corporation. US patent Nr.: 6,466,734; 6,430,359; 6,091,882; 6,049,652; 5,335,079; 5,307,173.

VCR Plus+ et PlusCode sont des marques déposées de Gemstar Development Corporation. Le système VCR Plus+ est fabriqué sous licence de Gemstar Development Corporation. Brevets américains n° : 6466734, 6430359, 6091882, 6049652, 5335079, 5307173.

Frequently Asked Questions

What kind of disc should I use for recording?

You can only record on a DVD+R/+RW disc. DVD+R/+RW is the most compatible recordable DVD format on the market today. They are fully compatible to most of the existing DVD-Video players and DVD-ROM drives in computers.

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

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

The hour mode indicates the number of hours that will fit on a single disc. The higher the recording mode, the greater space disc required.

What is the difference between DVD+R/ and DVD+RW?

DVD+R are "recordables" and DVD+RW are "rewritables." With a DVD+R, you can record multiple sessions on the same disc, but when the disc is full, you cannot record any more on the disc. The DVD+RW allows you to record over the same disc literally hundreds of times.

What is DV?

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

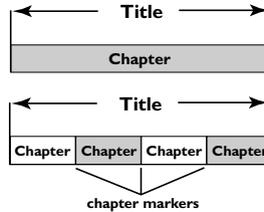
- This recorder is only compatible with DV-format (DVC-SD) camcorders. Digital satellite tuners and Digital VHS video recorders are not compatible.
- You cannot connect more than one DV camcorder at a time to this recorder.
- You cannot control this recorder from external equipment connected via the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

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

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

What are Titles and Chapters?

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



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

How do I set up Titles and Chapters?

The DVD recorder automatically creates a new Title every time you start a new recording. You can then add Chapters to these recordings manually or have them automatically inserted at 5-minutes intervals.

What does "finalizing" a disc do?

Finalizing a disc locks the disc so it can no longer be recorded, only required for DVD+R. It will then be compatible with virtually any DVD player. To close a disc without finalizing it, simply stop recording and eject the disc. you will still be able to record on the disc if there is room for more recordings.

How good is the quality of the recording?

There are a few quality levels to choose from, ranging from "1 hour mode" (High Quality) to "6 hours mode" (VHS quality). Press REC MODE button on the remote control to choose the quality level that best suits your purpose and the length of recording.

Maximum Recording Time per Disc	Picture Quality	Record Mode
1 hour	High quality	1 Hour Mode
2 hours	DVD quality-Standard Play	2 Hour Mode
4 hours	VHS quality-Extended Play	4 Hour Mode
6 hours	VHS quality-Super Long Play	6 Hour Mode

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Care and Safety Information

CAUTION!

High voltage! Do not open the device. You run the risk of getting an electric shock.

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

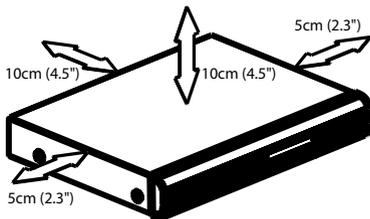
Setup

Finding a suitable location

- Place the set on a flat, hard and stable surface. Do not place the set on a carpet.
- Do not position the set on top of other equipment that might heat it up (e.g., receiver or amplifier.)
- Do not put anything under the set (e.g., CDs, magazines.)

Space for ventilation

- Place the apparatus in a location with adequate ventilation to prevent internal heat build up. Allow at least 10 cm (4.5") clearance from the rear and the top of the set and 5cm (2.3") from the left and right to prevent overheating.



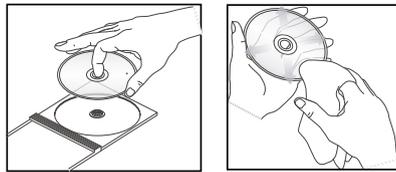
Avoid high temperatures, moisture, water and dust

- Apparatus shall not be exposed to dripping or splashing.
- Do not place any sources of danger on the apparatus (e.g., liquid filled objects, lighted candles.)

Cleaning discs

Some problems occur because the disc inside the recorder is dirty (frozen picture, sound disruptions, picture distortions.) To avoid these problems, discs should be cleaned on a regular basis.

To clean a disc, use a micro fibre cleaning cloth and wipe the disc from the center to the edge in a straight line.



CAUTION!

Do not use solvents such as benzene, thinner, commercially available cleaners, or anti-static sprays intended for analog discs.

Since the optical unit (laser) of the DVD recorder operates at a higher power than regular DVD or CD players, cleaning CDs intended for DVD or CD players may damage the optical unit (laser.) Therefore, refrain from using a cleaning CD.

About recycling

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

General Information

Introduction

Your Philips DVD recorder allows you to record the TV programs or duplicate camcorder recordings to a DVD+R/+RW and play pre-recorded DVDs. The recordings you make on the Recorder will play on some DVD players and DVD-ROM drives. The DVD+R discs have to be finalized before they can be played on other DVD players.

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

Helpful Hints:

- If you have questions or if problems come up during operation, please see the chapter 'Troubleshooting'.
- If you need further assistance, please call the customer support service for your country. The corresponding telephone numbers and e-mail addresses are given in the guarantee booklet.

Accessories supplied

- Remote control and batteries
- Audio/Video (AV) cable
- RF coaxial cable
- Quick Use Guide

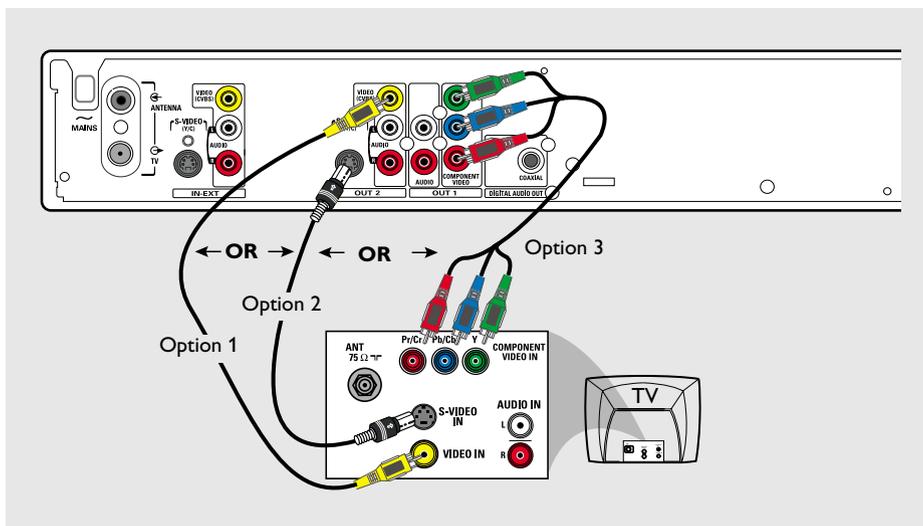
Region codes

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

This device will only play **Region 1** DVDs or DVDs manufactured to be played in all regions ('ALL'.) DVDs from other regions cannot be played on this DVD recorder.



Basic Connections - DVD recorder (continued)



Step 2: Connecting the video cable

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

Option 1: Using Composite Video jack (good picture quality)

- Use the supplied audio/video cables (yellow plug) to connect **VIDEO (CVBS) - OUT2** jack on the DVD recorder to the video input jack (or labeled as A/V In, Video In or Composite) on the TV.

Option 2: Using S-Video jack (excellent picture quality)

- Use an S-video cable (not supplied) to connect **S-VIDEO (Y/C) -OUT2** jack on the DVD recorder to the S-Video input jack (or labeled as Y/C or S-VHS) on the TV.

Option 3: Using Y Pb Pr jacks (best picture quality)

- 1 Use the component video cables (red/blue/green - not supplied) to connect the **Y Pb Pr -OUT1** jacks on the DVD recorder to the corresponding component video input jacks (or labeled as Y Pb/Cb Pr/Cr or YUV) on the TV.
- 2 If your TV accepts Progressive Scan signal, see page 51 for detailed Progressive Scan set up.

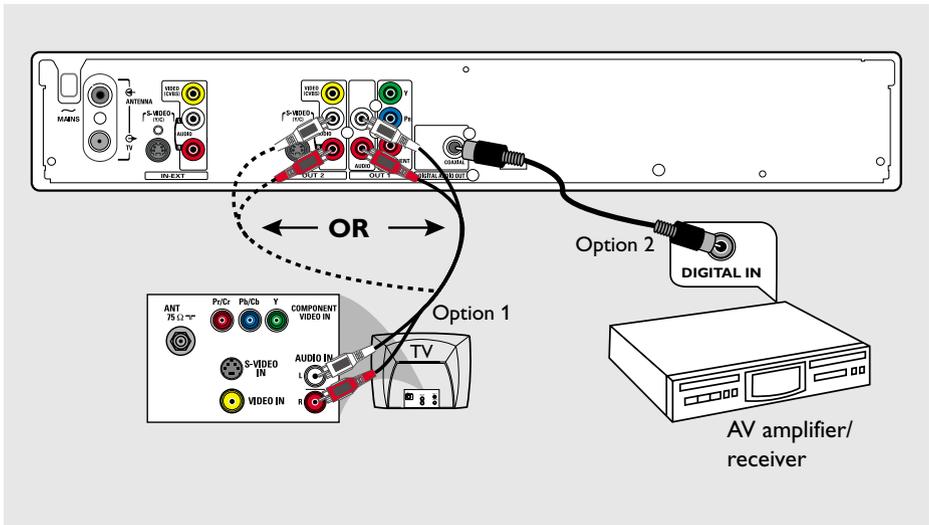
IMPORTANT!

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

TIPS: Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.

Basic Connections - DVD recorder (continued)

English



Step 3: Connecting the audio cables

This connection enables you to listen to the sound.

Option 1: Using Audio jacks

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

- Use the supplied audio/video cables (red/white ends) to connect **AUDIO L/R -OUT1** or **-OUT2** jacks to one of the following devices with the same input jacks.
 - a stereo system (for example, TV or mini system.)
 - a receiver with two channel analog stereo.

Option 2: Using Coaxial jack

You can connect the DVD recorder to an AV amplifier/receiver in order to enjoy multichannel surround sound.

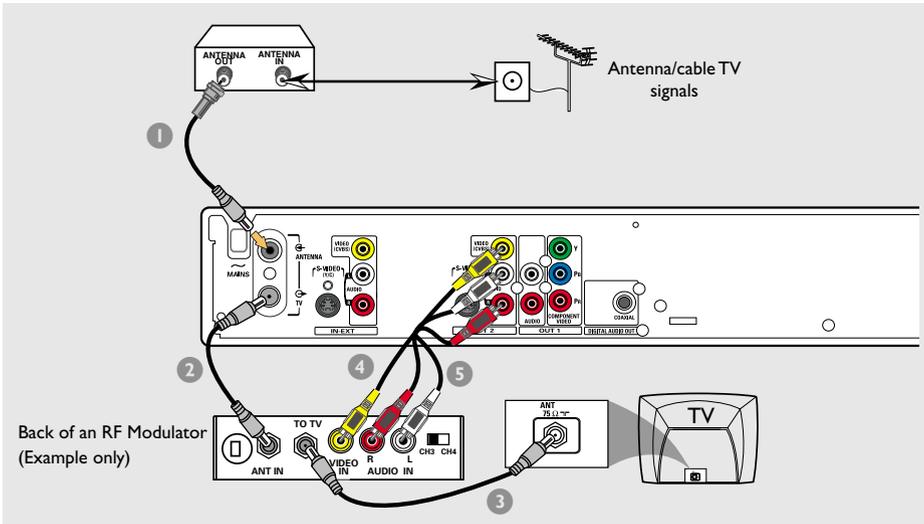
- Use a coaxial cable (not supplied) to connect **COAXIAL** jack to the device that has the same input jack (or labeled as **COAXIAL IN** or **DIGITAL IN**).
 - an AV amplifier/receiver with a digital multi-channel sound decoder

Before you start operating, set the Digital Audio Output accordingly (see page 54.) If the Digital Output setting does not match your stereo's capabilities, the stereo may produce a strong, distorted sound or no sound at all.

Helpful Hint:

– Do not connect your TV's audio output jacks to the **AUDIO L/R (IN-EXT)** jacks on this DVD recorder, this may cause unwanted noise.

TIPS: Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.



TV has only an antenna input jack

Use this connection if your TV has only a single Antenna In jack (or labeled as 75ohm or RF In) and does not have any audio/video jacks.

For this type of connection, you need an RF modulator in order to view the disc playback.

- 1 You may have an Antenna/Cable TV signal (or from the Cable Box/Satellite Receiver/VCR) connected to your TV's antenna input jack (VHF/UHF RF IN). Remove it from the TV and connect it to the **ANTENNA** jack on the DVD recorder.
- 2 Use the supplied RF coaxial cable to connect **TV** jack on the DVD recorder to the antenna input jack on RF modulator.

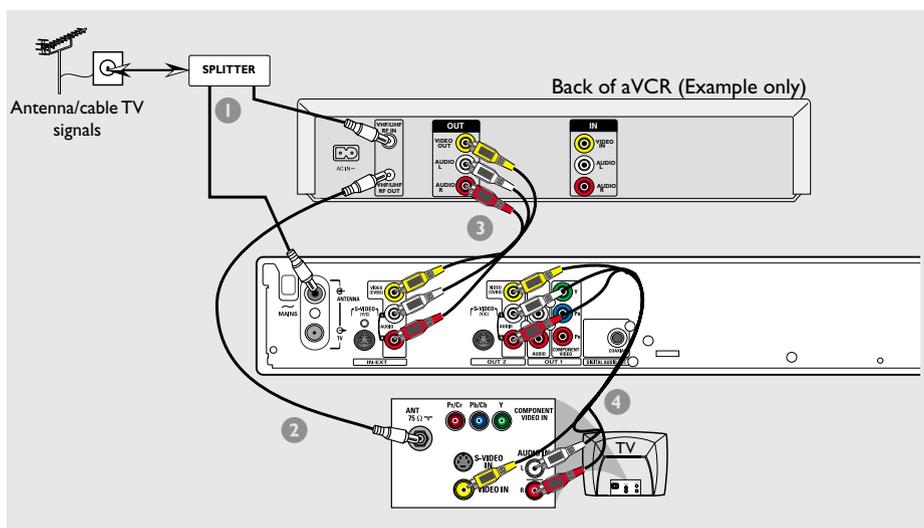
- 3 Use an RF coaxial cable (not supplied) to connect the TO TV jack on the RF modulator to the antenna input jack on your TV.
- 4 Use the supplied AV cables (yellow ends) to connect **VIDEO (CVBS) -OUT2** jack on the DVD recorder to the video input jack (or labeled as A/V In, Video In, Composite or Baseband) on the RF modulator.
- 5 Use the supplied AV cables (red/white ends) to connect **AUDIO L/R -OUT2** jacks on the DVD recorder to the audio input jack (or labeled as AUDIO IN or LINE IN) on the RF modulator.

Helpful Hints:

- If you used the TV jack to connect your DVD recorder to TV, set your TV to channel 3 or 4. If you used AUDIO/VIDEO OUT2 connection, set the TV to the appropriate video input channel.
- See your electronics retailer or contact Philips for details on RF modulator availability and operations.

TIPS: Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.

Optional Connections (continued)



Connecting to a VCR or other similar device

This connection enables you to record from video tape to a DVD+R/+RW and allows the VCR to be used for playback if the DVD recorder is turned off. A splitter (not supplied) is required for this connection.

- 1 Connect the Antenna/Cable TV signal to a splitter. Then connect the RF coaxial cables from the splitter to the antenna input (RF IN) jack on the VCR and the **ANTENNA** jack on the DVD recorder.
- 2 Use the supplied RF coaxial cable to connect the antenna output (RF OUT) jack on the VCR to the antenna input jack on the TV.

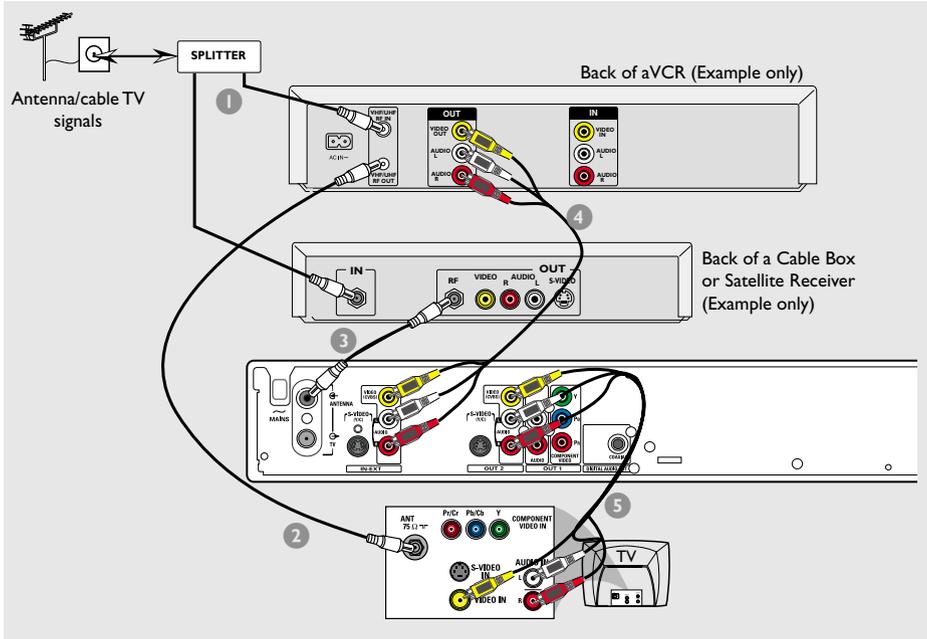
- 3 Use the audio/video cables to connect **VIDEO/AUDIO IN-EXT** on the DVD recorder to the matching VIDEO/AUDIO output jacks on the VCR.
- 4 Use the audio/video cables to connect **VIDEO/AUDIO OUT-2** on the DVD recorder to the matching VIDEO/AUDIO input jacks on the TV.

Helpful Hints:

- You may use the S-VIDEO (Y/C) jack instead of VIDEO (CVBS) jack if the connected device has the same S-VIDEO input/output jack. This video connection provides better picture quality.
- Most commercial video cassettes and DVDs are copy-protected and therefore cannot be recorded.
- Connect the DVD recorder directly to the TV. If there is a VCR or an additional device in between, the picture quality may be poor because of the copy protection system built into the DVD recorder.

TIPS: Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.

Optional Connections (continued)



Connecting to a VCR and Cable Box/Satellite Receiver

A splitter (not supplied) is required for this connection.

- 1 Connect the Antenna/Cable TV signal to a splitter. Then connect the RF coaxial cables from the splitter to the antenna input (RF IN) jack on the VCR and the Cable Box/Satellite Receiver.
- 2 Use an RF coaxial cable to connect the antenna output (RF OUT) jack on the VCR to the antenna input jack on the TV.
- 3 Use the supplied RF coaxial cable to connect the antenna output (RF OUT) jack on the Cable Box/Satellite Receiver to the **ANTENNA** jack on the DVD recorder.

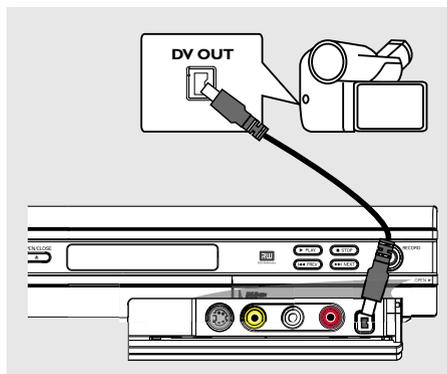
- 4 Use the audio/video cables to connect **VIDEO/AUDIO IN-EXT** on the DVD recorder to the matching VIDEO/AUDIO output jacks on the VCR.
- 5 Use the audio/video cables to connect **VIDEO/AUDIO OUT-2** on the DVD recorder to the matching VIDEO/AUDIO input jacks on the TV.

Helpful Hints:

– You may use the S-VIDEO jack instead of VIDEO (CVBS) jack if the connected device has the same S-VIDEO input/output jack. This video connection provides better picture quality.

TIPS: Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.

Optional Connections (continued)



Connecting a camcorder to the front jacks

You can use the front jacks to copy camcorder recordings. These jacks are located behind the flap on the right hand side, it provides convenient connections for a camcorder.

Option 1: Using DV IN jack

Use this connection if you have a Digital Video or Digital 8 camcorder. The DV jack conforms to the i.LINK standard. It provides the best picture quality.

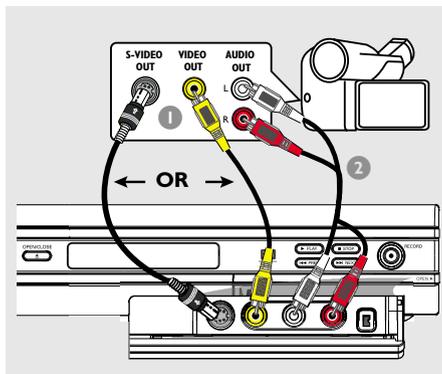
- Use an i.LINK 4-pin cable (not supplied) to connect **DV IN** jack on the DVD recorder to the appropriate DV OUT jack on the camcorder.

Before you start operating, press **REC SOURCE** on the remote control repeatedly to select 'DV' as the input channel. For recording, see pages 29~31.

Helpful Hints:

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

TIPS: Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.



Option 2: Using S-VIDEO In or VIDEO In jack

Use S-VIDEO connection if you have a Hi8 or S-VHS(C) camcorder. It provides better picture quality.

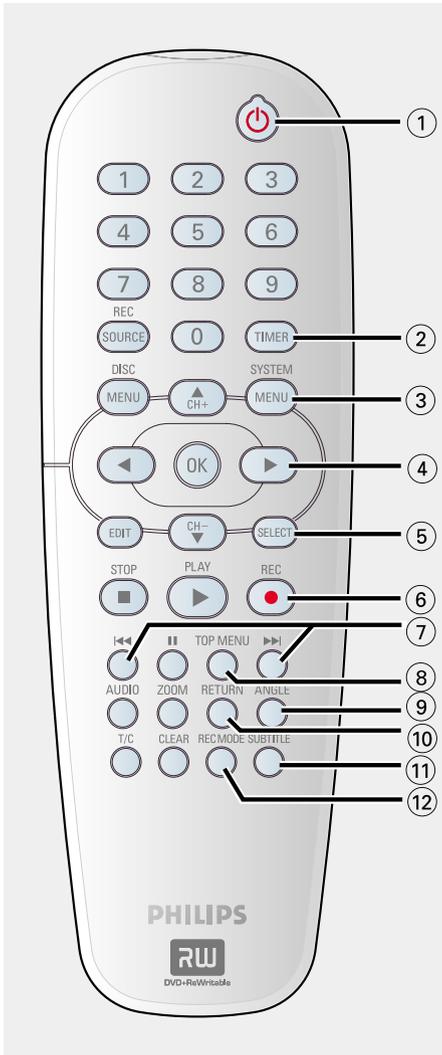
Alternatively, you can use VIDEO connection if your camcorder has only a single video output (Composite Video, CVBS.)

- 1 Connect the **S-VIDEO** or **VIDEO** jack at the front panel of the DVD recorder to the corresponding S-VHS or Video output jack on the camcorder.
- 2 Use an audio cable (red/white ends) to connect the **AUDIO L/R** jacks at the front panel of the DVD recorder to the audio output jacks on the camcorder.

Before you start operating, press **REC SOURCE** on the remote control repeatedly to select 'Front S-VIDEO' or 'Front CVBS' as the input channel, depending on your connections. For recording, see pages 29~31.

Remote Control

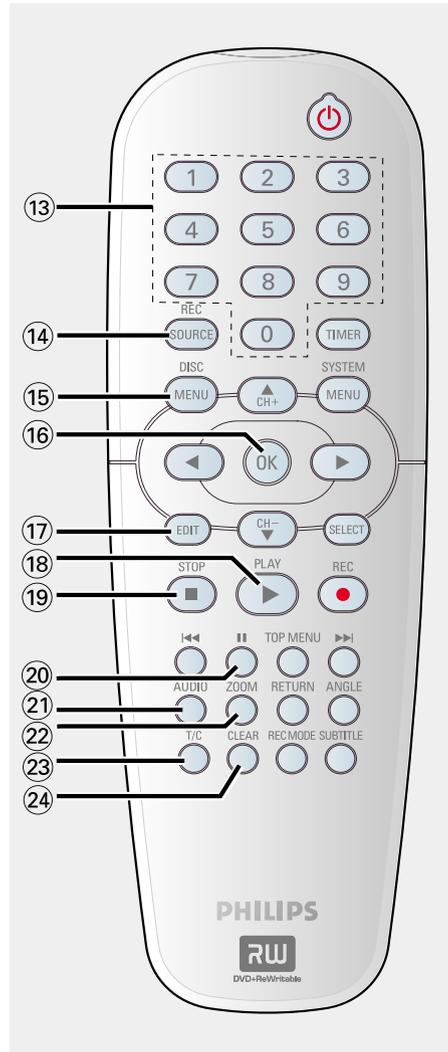
English



- ① **STANDBY-ON** 
 - Turns on the DVD recorder or to standby mode.
- ② **TIMER**
 - Enters/exits the timer recording menu.
- ③ **SYSTEM-MENU**
 - Enters/exits the system menu.
- ④ **◀▶**: Cursor buttons for moving to the left or right.
▲▼: Cursor buttons for moving up/down or changing the recorder's TV tuner channel.
- ⑤ **SELECT**
 - Selects a track/chapter/file in the program menu.
- ⑥ **REC** 
 - Starts recording the current TV channel or the current video input source.
- ⑦ **◀▶▶▶**
 - Skips to previous or next Chapter/Track.
 - Holding down the button for fast reverse /fast forward function.
- ⑧ **TOP MENU** (For DVD+R/+RW only)
 - Enters the disc editing menu.
- ⑨ **ANGLE**
 - Selects a DVD disc camera angle (if available.)
- ⑩ **RETURN**
 - Returns to the previous menu of a video CD (VCD) or some DVDs.
- ⑪ **SUBTITLE**
 - Selects a DVD subtitle language.
- ⑫ **REC MODE**
 - Toggles between recording modes : 1, 2, 4 and 6 hour mode.
This determines the quality of the recording and the amount/length of time you can record on a DVD+R/+RW.

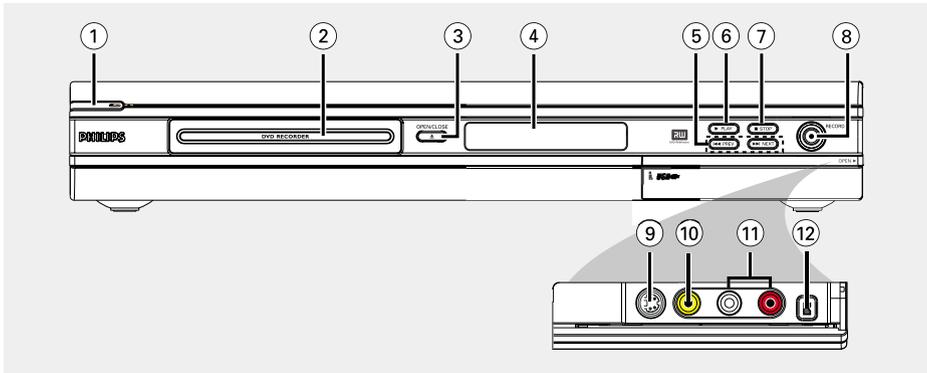
Remote Control (continued)

- ⑬ **Numeric keypad**
 - Selects a chapter/track number to play.
 - Selects the recorder's preset TV tuner channel.
- ⑭ **REC SOURCE**
 - Selects the recorder's input source.
- ⑮ **DISC-MENU**
 - Access DVD disc menu or Index Picture screen of a DVD+R/+RW.
 - Access VCD disc menu when PBC is turned on.
- ⑯ **OK**
 - Stores/confirms an entry.
 - Confirms a selection.
- ⑰ **EDIT** (For DVD+R/+RW only)
 - Enters/exits the video editing menu.
- ⑱ **PLAY ►**
 - Plays a disc.
- ⑲ **STOP ■**
 - Stops playback/recording.
 - Holding down the button will open and close the disc tray.
- ⑳ **⏸**
 - Pauses the playback or recording.
 - Press repeatedly to advance a paused picture one frame at a time.
- ㉑ **AUDIO**
 - Selects an audio language (DVD,VCD) or an audio channel (CD.)
 - **TUNER:** toggles between stereo, mono and SAP (refer to your TV manual for available sound modes.)
- ㉒ **ZOOM**
 - Enlarges a picture on the TV screen.
- ㉓ **T/C** (Title/Chapter)
 - Enters/exits the T/C menu.
- ㉔ **CLEAR**
 - Clears a track/chapter/file in the program menu.
 - Clears a timer entry.



Main Unit

English



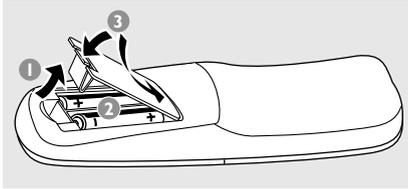
- ① **STANDBY-ON**
- Turns on or off the DVD recorder.
- ② **Disc tray**
- ③ **OPEN CLOSE**
- Opens/closes the disc tray.
- ④ **System display panel**
- Show information about the current status of the DVD recorder.
- ⑤ **◀ PREV / ▶ NEXT**
- Go to the previous/next chapter or track, do a forward/reverse search.
- ⑥ **▶ PLAY**
- Play a disc.
- ⑦ **■ STOP**
- Stop playback/recording.
- ⑧ **RECORD**
- Start recording the current TV channel or the current video input source.
- Press repeatedly to set up a One Touch Recording at 30 minutes interval.

Jacks behind the flap

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

- ⑨ **S-VIDEO**
- S-video input for SVHS/Hi8 camcorders or SVHS/Hi8 video recorders.
- Press **REC SOURCE** on the remote control to select 'Front S-Video' in order to view the input source.
- ⑩ **VIDEO**
- Video input for camcorders or video recorders.
- Press **REC SOURCE** to select 'Front CVBS' in order to view the input source.
- ⑪ **L/R AUDIO**
- Audio input for camcorders or video recorders.
- ⑫ **DV IN**
- Input for digital camcorders or other suitable devices using this connector.
- Press **REC SOURCE** on the remote control to select 'DV' in order to view the input source.

Step 1: Inserting Batteries

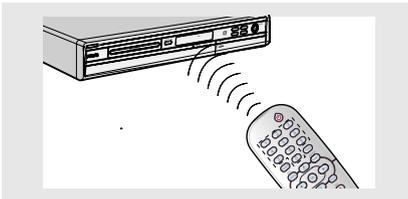


- 1 Open the battery compartment.
- 2 Insert two batteries type R06 or AA, following the indications (+ -) inside the compartment.
- 3 Close the cover.

CAUTION!

- Remove batteries if they are exhausted or if the remote is not to be used for a long time.
- Do not use old and new or different types of batteries in combination.
- Batteries contain chemical substances, so they should be disposed of properly.

Using the remote control to operate the system



- 1 Aim the remote control directly at the remote sensor (iR) on the front panel.
- 2 Press **REC SOURCE** button on the remote control to select the mode you wish to control (for example TUNER, Front-CVBS.)
- 3 Then select the desired function (for example ◀◀, ▶▶.)

Step 2: Setting the TV

- 1 Connect the power cable from the DVD recorder's ~ **MAINS** to the power supply.
- 2 Turn on the TV and set it to the correct video-in channel. You should see the blue DVD background screen.
 - Usually this channel is between the lowest and highest channels and may be called FRONT, A/V IN, VIDEO. See your TV's manual for more details.
 - Or, you may go to channel 1 on your TV, then press the Channel down button repeatedly until you see the Video In channel.
 - Or, the TV remote control may have a button or switch that chooses different video modes.
 - Or, set the TV to channel 3 or 4 if you are using an RF modulator.

IMPORTANT!

When you complete the connections and turn on the DVD recorder for the first time, it is advisable that you make several basic settings.

Please see the following pages on using the System Menu features to program TV channels and menu language settings. This will improve the performance of this DVD recorder considerably.

Getting Started (continued)

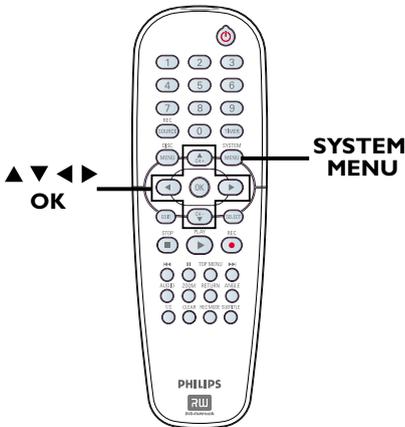
English

Step 3: TV channel programming

Before the DVD recorder can start recording the TV channel programs, you need to search for the available TV channels and store them in the recorder.

Note: Make sure you have successfully made all the required connections to the DVD recorder, the TV and Satellite Receiver/Cable Box (if any) and switched them on.

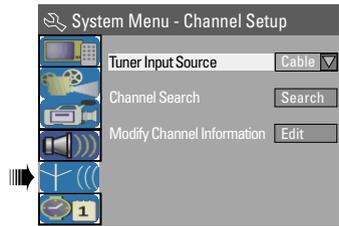
Tuner settings can only be changed when there is no disc in the disc tray.



Automatic TV channel search

This will automatically scan all the receivable TV channels and the cable programs from the Cable Box/Satellite Receiver and store these channels on the DVD recorder.

- 1 Press **SYSTEM-MENU** on the remote control.
→ The system menu appears on the TV.
- 2 Use ▲ ▼ keys to highlight  { **System Menu - Channel Setup** } and press ►.



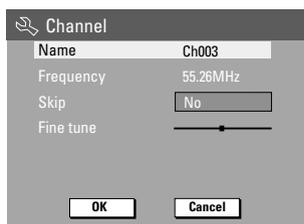
- 3 Use ▲ ▼ keys to highlight { **Tuner Input Source** } and press **OK**.
 { **Cable** }
 Select this if the DVD recorder is connected via a cable box/satellite receiver.
 { **Air** }
 Select this if the DVD recorder is connected directly to the antenna wall outlet
- 4 Press **OK** to confirm.
- 5 Use ▲ ▼ keys to highlight { **Channel Search** } and press **OK**.
 → The automatic TV channel search starts. This process may take several minutes. Once complete, the total number of channels found appears on the TV.

TIPS: Press ◀ to go back to previous menu item. Press **SYSTEM-MENU** to exit the menu.

Modifying Channel Information

You can set a TV channel to your preference and improve the reception and the sound quality of the TV channel.

- 1 Press **SYSTEM-MENU**.
→ The system menu appears.
- 2 Use **▲ ▼** keys to highlight  { **System Menu - Channel Setup** } and press **▶**.
- 3 Use **▲ ▼** keys to highlight { **Modify Channel Information** } and press **OK**.
→ The channel menu appears.



- 4 Use **▲ ▼** keys to select one of the options and press **OK**.

{ Name }

Select this to change different TV channel.

- Use **numeric keypad 0-9** to enter the TV channel and press **OK** to confirm.

{ Skip }

Select this to set the channel to be skipped.

The skipped channels can only be accessed by pressing the corresponding number button on the remote control.

- Use **▲ ▼** keys to choose { **Yes** } if you wish to skip this channel, then press **OK** to confirm.

{ Fine Tune }

Select this to fine-tune the TV channel manually if the reception is poor.

- Use **◀ ▶** keys to adjust the frequency.

- 5 Once complete, select **OK** in the menu and press **OK** to confirm and exit to the previous menu page.
→ If you do not wish to save any changes, select **CANCEL** and press **OK**.

TIPS: Press **◀** to go back to previous menu item.
Press **SYSTEM-MENU** to exit the menu.

Getting Started (continued)

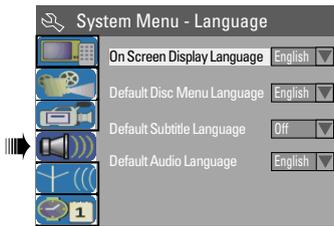
Step 4: Setting the language

You can select the language for subtitles and audio for DVD playback. For some DVDs, the subtitle/audio language can only be changed via the DVD disc menu. If the selected language is not available on the disc, the disc's default language will be used instead.

The menu language (on-screen display) for the system will remain as you set it.

Language settings can only be changed when there is no disc in the disc tray.

- 1 Press **SYSTEM-MENU**.
→ The system menu appears.
- 2 Use ▲ ▼ keys to highlight  { **System Menu - Language** } and press ► to confirm.



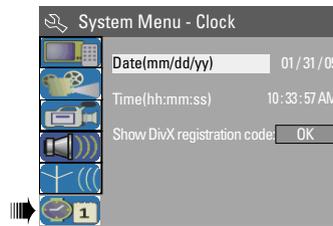
- 3 Use ▲ ▼ keys to highlight one of the options and press **OK**.
{ **On Screen Display Language** }
Select this to change the language of this DVD recorder screen display menu.
{ **Default Disc Menu Language** }
Select this to change the language of the Disc Menu.
{ **Default Subtitle Language** }
Select this to change the subtitle language.
{ **Default Audio Language** }
Select this to change the playback language.
- 4 Use ▲ ▼ keys to highlight the desired language and press **OK** to confirm.

TIPS: Press ◀ to go back to previous menu item.
Press **SYSTEM-MENU** to exit the menu.

Step 5: Setting the time & date

If the DVD recorder has not set the time and date correctly, set the clock manually by following the steps below.

- 1 Press **SYSTEM-MENU**.
→ The system menu appears.
- 2 Use ▲ ▼ keys to select  { **System Menu - Clock** } and press ► to confirm.



- 3 Press **OK** to set { **Date(mm/dd/yy)**. }
- 4 Use ▲ ▼ keys to change number and use ◀▶ keys to select different entry fields, then press **OK** to confirm.
- Alternatively, you can key in the numbers using the **numeric keypad 0-9** on the remote control.
- 5 Press **OK** to confirm.
- 6 Move to { **Time (hh:mm:ss)** } and repeat step 4~5.

Note: For information on { **Show DivX® registration code**, } see page 55.

Discs for recording

Two different formats of DVD recordable discs can be used with this DVD recorder:



DVD+RW

– Discs that are re-writable can be used for multiple recordings once existing data is erased.



DVD+R

- Discs can only be used for a single recording. Each new recording is always added at the end of all previous recordings as existing recordings cannot be overwritten.
- Editing can be made on DVD+R discs as long as they have not been finalized. It is also possible to create additional chapter markers.
- You can also delete unwanted recordings. However, the disc space occupied by the deleted recordings cannot be recovered for further recording.
- To play a DVD+R disc on another DVD player, it must be finalized (see page 36 “Playing your recordings (DVD+R) on other DVD players”.) After this is done, no more data can be added to the disc.

IMPORTANT!

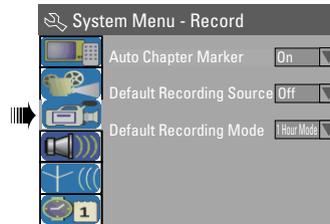
Unrecordable pictures

Television programs, films, video tapes, discs, and other materials may be copyrighted and therefore cannot be recorded on this recorder.

Recording settings

The default recording settings allow you to set the auto chapter markers, preferred recording input source and recording mode. Any changes made using the remote control will apply to the current recording settings, the default recording settings will remain for the next recording.

- 1 Press **SYSTEM-MENU** on the remote control.
→ The system menu appears on the TV.
- 2 Use **▲ ▼** keys to select { **System Menu - Record** } and press **▶** to confirm.



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

TIPS: Press **◀** to go back to previous menu item.
Press **SYSTEM-MENU** to exit the menu.

Recording (continued)

Auto Chapter Markers

You can insert chapter markers within a title during recording. This lets you access specific points on the recorded disc as you would choose a chapter on other DVDs.

- 1 Use **▲ ▼** keys to select { **Auto Chapter Marker** } and press **▶** to access its options.
- 2 Use **▲ ▼** keys to select one of the options.
 - { **Off** }
 - Disable this feature.
 - { **On** }
 - A chapter marker will be automatically inserted during recording. The interval depends on the recording mode selected.
- 3 Press **OK** to confirm.

Default Source

You can define your preferred source of recording. The default source is selected when the DVD recorder is turned on. To change the current recording source without changing the default setting, you can press **REC SOURCE** button on the remote control.

- 1 Use **▲ ▼** keys to select { **Default Recording Source** } and press **▶** to access its options.
- 2 Use **▲ ▼** keys to select one of the options.
 - { **Tuner** }
 - Input source from TV programs.
 - { **Front CVBS** }
 - Input source from the device connected to the VIDEO and AUDIO L/R jacks on the front panel.

{ **Front S-Video** }

Input source from the device connected to the S-VIDEO and AUDIO L/R jacks on the front panel.

{ **Rear CVBS** }

Input source from the device connected to the VIDEO (CVBS)-IN-EXT and AUDIO L/R jacks on the back panel.

{ **Rear S-Video** }

Input source from the device connected to the S-VIDEO (Y/C)-IN-EXT and AUDIO L/R jacks on the back panel.

{ **DV** }

Input source from the device connected to DV IN jack at the front panel.

- 3 Press **OK** to confirm.

Default Recording Mode

The recording mode defines the picture quality of recordings and the maximum recording time for a disc.

This function can also be accessed via the **REC MODE** on the remote control.

- 1 Use **▲ ▼** keys to select { **Default Recording Mode** } and press **▶** to access its options.
- 2 Use **▲ ▼** keys to select one of the following record mode.

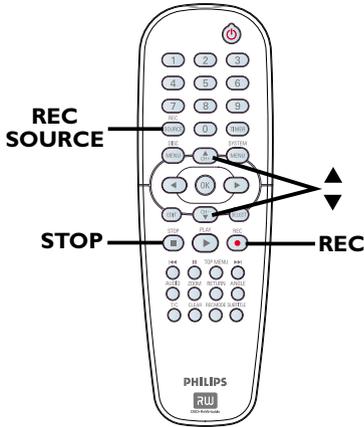
Maximum Recording Time per Disc	Picture Quality	Record Mode
1 hour	High quality	1 Hour Mode
2 hours	DVD quality-Standard Play	2 Hour Mode
4 hours	VHS quality-Extended Play	4 Hour Mode
6 hours	VHS quality-Super Long Play	6 Hour Mode

- 3 Press **OK** to confirm.

TIPS: The underlined option is the factory default setting.
Press **◀** to go back to previous menu item. Press **SYSTEM MENU** to exit the menu item.

Manual recording

Use this feature to start recording immediately (e.g., to record a TV show already in progress.)



- 1 Turn on the TV power. Select the correct Video In channel at the TV.
- 2 Insert a DVD+R/+RW disc into the DVD recorder.
- 3 Press **REC SOURCE** on the remote control to select { **Tuner** }, then use **▲ ▼** keys to select the TV channel you wish to record.
- To record from an external device, press **REC SOURCE** repeatedly to select the correct input channel that matches the jack which is connected to the DVD recorder.

{ Front CVBS }

Input source from the device connected to the VIDEO and AUDIO L/R jacks on the front panel.

{ Front S-Video }

Input source from the device connected to the S-VIDEO and AUDIO L/R jacks on the front panel.

{ Rear CVBS }

Input source from the device connected to the VIDEO (CVBS)-IN-EXT and AUDIO L/R jacks on the back panel.

{ Rear S-Video }

Input source from the device connected to the S-VIDEO (Y/C)-IN-EXT and AUDIO L/R jacks on the back panel.

{ DV }

Input source from the device connected to DV IN jack at the front panel.

- 4 Press **REC ●** to start recording.
→ The recording will automatically start after the last recording on the DVD+R/+RW.
- 5 To stop the recording, press **STOP ■**.

Pausing a recording

- 1 During a recording, press **PAUSE II**.
→ You can use this function to avoid recording commercials.
- 2 To resume recording, press **REC ●**.

One Touch Recording - automatic turn-off

- 1 Follow the steps 1~3 of "Manual Recording" on pages 29.
- 2 Press **REC ●** twice to start a 30 minutes recording. Each time you press **REC ●** after that, you will add 30 minutes to the recording time.
→ The recorder will stop recording at the designated end time and turn off automatically.
- Press **STOP ■** if you wish to stop the recording.

TIPS: Ensure that there is sufficient space available on the DVD+R/+RW before recording.
You have to finalize the DVD+R, before it can be played on other players, see page 36.

Recording (continued)

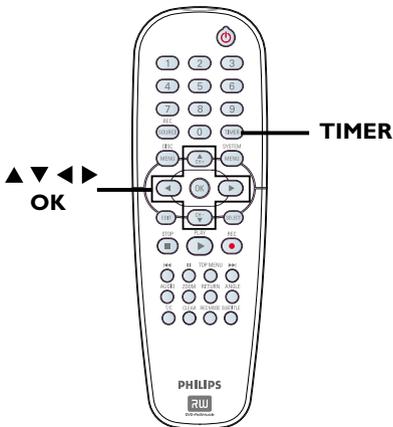
About timer recording

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

With this DVD recorder, you can pre-program up to **20 recordings**.

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

- The date you want to make the recording.
- The recording input source.
- The start and stop time of the recording.
- The recording mode, see page 28.



Timer recording (manually)

- 1 Turn on the TV power. Select the correct Video In channel at the TV.
- 2 Press **TIMER** on the remote control.
→ The timer schedule list appears.

Timer Schedule					
	Source	RecMode	Date	Start	End
1					
2					
3					
4					
5					
6					

- 4 Press **OK** on the remote control.
→ The VCR Plus+ System menu appears.

VCR Plus+ System	
Enter the PlusCode programming number for the show you wish to record. Press [RETURN] to return to timer schedule or [TIMER] to exit timer.	
5	<input type="text"/>
<input type="button" value="Confirm"/>	<input type="button" value="Cancel"/>

- 4 Select **CANCEL** in the menu and press **OK**.
→ The timer editor menu appears.

Timer Editor	
Source	Ch003
Rec Mode	2 Hour Mode
Mode	Once
Date	01 / 31 / 05
Start	10 : 33 : 57 PM
End	11 : 03 : 57 PM
<input type="button" value="OK"/>	<input type="button" value="Cancel"/>

- 5 Use **▲▼** keys to select an entry in the menu and press **▶** to enter its options.

TIPS: Ensure that there is sufficient space available on the DVD+R/+RW before recording. You have to finalize the DVD+R before it can be played on other players, see page 36.

{ Source }

– Use ▲ ▼ keys to select the recording input source.

{ Rec Mode }

– Use ▲ ▼ keys to select your option.
See pages 27~28 on “Recording settings - Recording mode”.)

{ Mode }

– Use ▲ ▼ keys to select { **Once** },
{ **Daily** }, { **Weekly** }, { **Mon-Fri** }
(Monday to Friday,) { **Mon-Sat** }
(Monday to Saturday) or { **Weekend** }
(Saturday and Sunday) recordings.

{ Date }

– Use ▲ ▼ keys or the **numeric keypad 0-9** to enter the date for recording.

{ Start }

– Use ▲ ▼ keys or the **numeric keypad 0-9** to enter the start time of recording.

{ End }

– Use ▲ ▼ keys or the **numeric keypad 0-9** to enter the end time of recording.

- 6 Select in the menu and press **OK**.
→ The system will store the timer entry and return to the timer schedule list.
- To cancel the above timer setting, select in the menu and press **OK**.
- 7 Press **TIMER** to exit the menu.
- 8 Insert a DVD+R/+RW into the DVD recorder.

- 9 Press **STANDBY-ON** to turn off the DVD recorder.
→ If the DVD recorder is not in standby mode, a warning message will appear three minutes before the recording starts.
→ If you ignore the warning message, the DVD recorder will start the timer recording automatically at the designated time.
→ The 'TIMER' icon will light up on the display panel if a timer recording is set.

Helpful Hint:

– Set the timer recording one minute ahead of the program's start time. This helps ensure the entire program is recorded as the disc requires about 30 seconds to prepare for recording.

Setting a timer recording from an external Cable Box/Satellite Receiver

If you have a Satellite Receiver/Cable Box connected to this DVD recorder via the S-VIDEO (Y/C) or VIDEO (CVBS) (see page 16,) follow the steps described below to program the recordings.

- 1 Select the channel you want to record at the Satellite Receiver/Cable Box.
- 2 Program the recording with the required information. Follow the steps 1~9 of “Timer Recording (manually)” on pages 30~31.
{ Source }
– Use ▲ ▼ keys to select { **Rear S-Video** } or { **Rear CVBS** } as the input channel and press **OK** to confirm.
- 3 Leave the Satellite Receiver/Cable Box on for the recording.

TIPS: Ensure that there is sufficient space available on the DVD+R/+RW before recording.
You have to finalize the DVD+R before it can be played on other players, see page 36.

Recording (continued)

Timer recording (VCR Plus+® System)

This is a simple programming system for DVD recorders. To use it, enter the PlusCode programming number associated with your television program. You can find this number in your TV listings magazine.

All the information needed by the DVD recorder for programming is contained in the programming number.

- 1 Turn on the TV power. Select the correct Video In channel at the TV.
- 2 Press **TIMER** on the remote control.
→ The timer schedule list appears.

	Source	RecMode	Date	Start	End
1					
2					
3					
4					
5					
6					

- 3 Press **OK** to confirm.
Or, press **▼** key to go to the next available empty slot and press **OK**.
→ The VCR Plus+ System menu appears.

Enter the PlusCode programming number for the show you wish to record. Press [RETURN] to return to timer schedule or [TIMER] to exit timer.

5

Confirm Cancel

- 4 Use the **numeric keypad 0-9** to enter the PlusCode programming number for the show you wish to record.
(e.g. : 5-312-4 or 5,312 4, key in '53124'.)

- To clear the VCR PlusCode programming number, press **CLEAR** on the remote control.
- To cancel the VCR Plus+® programming, use **▲ ▼** keys to select **CANCEL** in the menu and press **OK**.
- 5 To confirm your entry, select **CONFIRM** in the menu and press **OK**.
→ The system will store the timer entry and return to the timer editor menu.
- If the channel number of the TV channel has not been assigned to the PlusCode number, you will have to manually key in the channel number that is assigned to the VCR Plus+® code. Follow the instructions on the TV.
- 6 Press **TIMER** to exit the menu.
- 7 Insert a DVD+R/+RW into the DVD recorder.
- 8 Press **STANDBY-ON** to turn off the DVD recorder.
→ If the DVD recorder is not in standby mode, a warning message will appear three minutes before the recording starts.
→ If you ignore the warning message, the DVD recorder will start the timer recording automatically at the designated time.
→ The 'TIMER' icon will light up on the display panel if a timer recording is set.

TIPS: Ensure that there is sufficient space available on the DVD+R/+RW before recording. You have to finalize the DVD+R before it can be played on other players, see page 36.

Changing/Deleting a timer recording

- 1 Turn on the TV power. Select the correct Video In channel at the TV.
- 2 Press **TIMER** on the remote control.
→ The timer schedule list appears.

	Source	RecMode	Date	Start	End
1	CH003	2 Hour Mode	01/14/05	02:00 PM	03:30 PM
2	CH010	1 Hour Mode	01/25/05	04:00 PM	06:30 PM
3	CH008	4 Hour Mode	01/30/05	10:00 AM	11:15 AM
4	CH005	2 Hour Mode	01/31/05	02:30 AM	04:00 AM
5					
6					

- 3 Use **▲ ▼** keys to select a timer program which you want to change/delete.
- 4 **To delete the timer entry**, press **CLEAR** on the remote control.
- 5 **To change the timer schedule**, press **OK** to enter the timer editor menu of the selected timer program.

Timer Editor	
Source	Ch003
Rec Mode	2 Hour Mode
Mode	Once
Date	01 / 31 / 05
Start	10 : 33 : 57 PM
End	11 : 03 : 57 PM
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	

- 6 Select the entry field and make the necessary changes.
- 7 Once complete, select in the menu and press **OK** to save the changes.
- 8 Press **TIMER** to exit the menu.

TIPS: Ensure that there is sufficient space available on the DVD+R/+RW before recording. You have to finalize the DVD+R before it can be played on other players, see page 36.

Editing/Finalizing Recording

About Disc editing

This DVD recorder offers various disc edit options for various disc types. You can change the disc content and settings of a recorded DVD+R/+RW from the disc editing menu. The edited contents may not be available if you play the disc on another DVD player.

The displayed options in the disc editing menu differ depending on the situation and disc type.

{ Play }

Start playing from the beginning of the disc.

{ Rename Disc }

Change the name of the disc.

{ Erase Disc } - DVD+RW only

Erase all the recordings in the disc. For DVD+R, the deleted space cannot be used for other recording.

{ Record New Title }

Start recording from the last empty title in the disc.

{ Overwrite Disc } - DVD+RW only

Start a new recording from the beginning of the disc, all the recorded content will be overwritten.

{ Make Compatible } - DVD+RW only

Make the recording contents compatible on other DVD players.

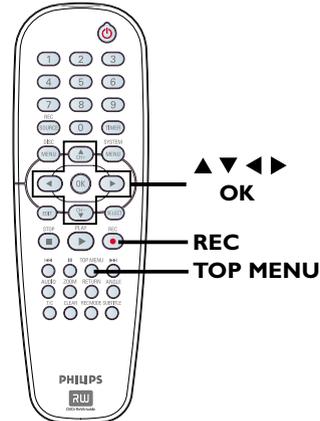
{ Lock/Unlock Disc } - DVD+RW only

Lock or unlock a disc to prevent accidental erasure or changes being made.

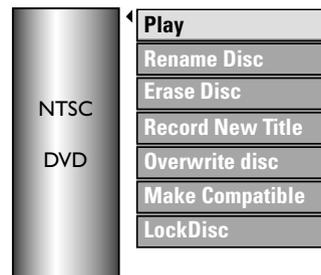
{ Finalize Disc } - DVD+R only

Finalize the disc to enable playback on other DVD players. Further recording and editing to the disc are not allowed. It is not possible to unfinalize the disc.

Accessing disc editing menu



- 1 Insert a recorded DVD+R/+RW into the DVD recorder.
→ The Index Picture screen appears on the TV.
- 2 Press **TOP MENU** on the remote control.
→ The disc editing menu appears. The edit options are varied for DVD+R and DVD+RW.



- 3 Use ▲ ▼ keys to access different options and **OK** to select.
→ Instructions and explanation of the options are provided in the following pages.

TIPS: No further recording and editing can be carried out on a finalized DVD+R.
Press 1 to go back to previous menu item.

Editing/Finalizing Recording (continued)

Rename disc

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

- 1 Press **TOP MENU**, then use **▲ ▼** keys to select { **Rename Disc** } and press **OK**.
→ The keyboard screen appears.
- 2 Use **◀ ▶ ▲ ▼** keys to highlight a character on the keyboard and press **OK** to select.
→ The maximum input is up to 9 characters.
- You can use the following keys on the keyboard screen to edit your input:
 - BkSp** : to delete a character to the left of the cursor.
 - DELETE** : to remove the character before the cursor.
 - SPACE** : to create a space between characters.
 - CAPS** : to toggle big and small caps.
 - CLEAR** : to clear the entry field completely.
- 3 To confirm your entry, select **OK** on the keyboard and press **OK**.
→ The info panel is now updated.
- To cancel the changes, select **EXIT** on the keyboard and press **OK**.

Erase disc (DVD+RW only)

This erases the content of the DVD+RW including those that was not recorded on this DVD recorder. Once the existing content is erased, it can be used for recording.

- 1 Press **TOP MENU**, then use **▲ ▼** keys to select { **Erase Disc** } and press **OK**.
→ A warning message will appear.
- 2 Select **YES** in the menu to proceed or **NO** to abort, then press **OK** to confirm.

Record new title

This function allows you to start a new recording at the remaining empty space in the DVD+RW.

- 1 Press **TOP MENU**, then use **▲ ▼** keys to select { **Record New Title** } and press **OK**.
- 2 Select the source you want to record from and press **REC ●** to start recording.

Overwrite disc (DVD+RW only)

This function allows you to start a new recording from the beginning of a DVD+RW, regardless of the contents of the disc.

- 1 Press **TOP MENU**, then use **▲ ▼** keys to select { **Overwrite disc** } and press **OK**.
- 2 Select the source you want to record from and press **REC ●** to start recording.

TIPS: No further recording and editing can be carried out on a finalized DVD+R.
Press **◀** to go back to previous menu item.

Editing/Finalizing Recording (continued)

Make compatible (DVD+RW only)

This function allows you to make an edited version DVD+RW compatible. This is to enable the edited information to be seen on other DVD players.

- Press **TOP MENU**, then use **▲ ▼** keys to select { **Make Compatible** } and press **OK** to confirm.

Helpful Hint:

– If the option {Compatible} is not available for selection, it means that the disc is already compatible.

Lock/Unlock disc (DVD+RW only)

You can choose to protect the recorded DVD+RW in order to prevent accidental loss of recordings.

- ① Press **TOP MENU**, then use **▲ ▼** keys to select { **Lock Disc** } and press **OK**.
→ The disc is locked for this DVD recorder only.
→ When the disc is locked, the option in the disc editing menu will change to { **Unlock Disc.** }
- ② If you want to overwrite or edit on the protected disc, select { **Unlock Disc.** }

Playing your recordings (DVD+R) on other DVD players

It is necessary to finalize a DVD+R disc before you can play it on any other DVD player. Otherwise, the DVD+R will only playback on this DVD recorder.

After a DVD+R disc has been finalized, no further recordings or editing can be made to it. Make sure that you have completed all the recordings and editing before finalizing the disc.

- ① Press **TOP MENU**, then use **▲ ▼** keys to select { **Finalize Disc** } and press **OK**.
→ A warning message will appear.
- ② Select **YES** in the menu and press **OK** to start the process.
→ Finalization will take a few minutes. Do not try to open the disc tray or turn the power off as this may render the disc unusable.

TIPS: No further recording and editing can be carried out on a finalized DVD+R. Press **◀** to go back to previous menu item.

Editing/Finalizing Recording (continued)

About title editing

You can change the individual title information or delete a title (recording) in a recorded DVD+R/+RW. If a DVD+R has been finalized, it cannot be edited.

The displayed options in the title editing menu differ depending on the situation and disc type.

{ Play Title }

Start playing a recording.

{ Edit Title }

Access video editing menu.

{ Rename Title }

Change the name of the recording.

{ Erase Title }

Delete the title (recording).

{ Overwrite Title } - DVD+RW only

Start a new recording, the existing title (recording) will be overwritten.

{ Overwrite Disc }

Overwrite from existing selected title onwards to the end of the disc.

{ Append Title }

Insert a new recording to the last existing recording.

Accessing title editing menu

- 1 Insert a recorded DVD+R/+RW into the DVD recorder.
→ The Index Picture screen appears on the TV.
- 2 Use ▲ ▼ keys to highlight a title (recording), and press ►.
→ The title editing menu appears.



- 3 Use ▲ ▼ keys to access different options and **OK** to select.
→ Instructions and explanation of the options are provided in the following pages.
- 4 To exit, press ◀.

Video editing

This feature allows access video editing menu. See “About video editing” on pages 39~41 for more information.

- In title editing menu, use ▲ ▼ keys to select { **Edit Title** } and press **OK**.
→ The video editing menu appears.
→ The DVD recorder will play the selected title.

TIPS: No further recording and editing can be carried out on a finalized DVD+R.
Press ◀ to exit the menu.

Editing/Finalizing Recording (continued)

Rename title

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

- In title editing menu, use ▲ ▼ keys to select { **Rename Title** } and press **OK**.
→ The keyboard screen appears.
- Use ◀ ▶ ▲ ▼ keys to highlight a character and press **OK** to select.
→ The maximum input is up to 9 characters.
- You can use the following keys on the keyboard screen to edit your input:
 - BkSp** : to delete a character to the left of the cursor.
 - DELETE** : to remove the character before the cursor.
 - SPACE** : to create a space between characters.
 - CAPS** : to toggle big and small caps.
 - CLEAR** : to clear the entry field completely.
- To confirm your entry, select **OK** on the keyboard and press **OK**.
→ The info panel is now updated.
- To cancel the changes, select **EXIT** on the keyboard and press **OK**.

Erase title

You can delete a specific title (recording) from the disc. However, for DVD+R the deleted space cannot be used for further recording.

- In title editing menu, use ▲ ▼ keys to select { **Erase Title** } and press **OK**.
→ A warning message will appear.
- Select **YES** in the menu to proceed or **NO** to abort, then press **OK** to confirm.

TIPS: No further recording and editing can be carried out on a finalized DVD+R. Press ◀ to exit the menu.

Overwrite title (DVD+RW)

This function allows you to record a new title from the beginning of the current title in the DVD+RW.

- In title editing menu, use ▲ ▼ keys to select { **Overwrite Title** } and press **OK**.
- Select the source you want to record from and press **REC ●** to start recording.

Overwrite from the selected title

You can select to delete only the recordings from the selected title onwards to the end of the disc.

- In title editing menu, use ▲ ▼ keys to select { **Overwrite Disc** } and press **OK** to delete.

Append recording

This function allows you to append recording to the last existing title.

- In title editing menu, use ▲ ▼ keys to select { **Append Title** } and press **OK**.
- Press **REC SOURCE** to select the input channel to append.
- Press **REC ●** to start append recording.
Warning! Once the recording has started, any prior recording from the point of the playback onwards will be overwritten.
- To stop append recording, press **STOP ■**.

Editing/Finalizing Recording (continued)

Selecting a title

It shows the current title and the total number of titles in the disc. It also allows you to select another title.

- 1 In video editing menu, use ▲ ▼ keys to select  { **Title** } and press **OK**.
- 2 Use the **numeric keypad 0-9** to key in a title and press **OK**.
→ The DVD recorder will play the selected title.

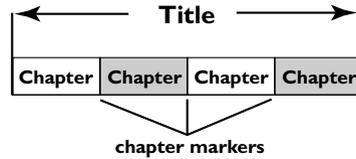
Selecting a chapter

It shows the current chapter and the total number of chapters in the title. It also allows you to select another chapter within the title.

- 1 In video editing menu, use ▲ ▼ keys to select  { **Chapter** } and press **OK**.
- 2 Use the **numeric keypad 0-9** to key in the chapter and press **OK**.
→ The DVD recorder will play the selected chapter.

Creating chapter marker

You can create a chapter by inserting chapter marker at any point within a title during playback. This will allow you to access a specific point in the recording easily or set a chapter you wish to hide.



- 1 In video editing menu, use ▲ ▼ keys to select  { **Chapter Marker** } and press **OK**.
- 2 Use ▲ ▼ keys to select one of the options and press **OK** to confirm.

{ **Insert Chapter Marker** }

Select this to insert a new chapter marker at the current point of playback.

{ **Delete Chapter Marker** }

Select this to delete the current chapter marker (it refers to the closest marker before the current point of playback.) The current chapter will then combine with the chapter before it.

{ **Delete All Chapter Marker** }

Select this to delete all the chapter markers in the current title.

TIPS: No further recording and editing can be carried out on a finalized DVD+R.
Press ◀ to exit the menu.

Editing/Finalizing Recording (continued)

Hiding an unwanted chapter

You can choose to hide certain scene from playback (e.g. skipping a commercial scene) or make it visible again.

- 1 Create a chapter marker at the scene you are going to hide. (See previous page on "Insert Chapter Marker".)
 - 2 Select the chapter you want to hide and start playback. (See previous page on "Selecting a chapter".)
 - 3 In video editing menu, use ▲ ▼ keys to select  { **Hide Chapter** } and press **OK**.
→ The current chapter will be hidden.
- If the video editing menu does not show, press **EDIT** on the remote control.

To unhide a chapter

- 1 Press **EDIT** on the remote control during playback.
→ The video editing menu appears.
→ While in editing mode, the hide chapter will play.
- 2 Wait for the chapter you want to unhide to occur or use ◀◀ / ▶▶ to search for the beginning of the chapter you want to unhide.
- 3 Use ▲ ▼ keys to select { **Unhide Chapter** } and press **OK**.
→ The current chapter will be visible during playback.

Helpful Hint:

– All the hidden chapters will be played back while in video editing mode.

Changing Index Picture

The index picture is the picture of the title you will see when the DVD recorder loads up the Index menu. Normally, the first frame of a recording is shown as the title's index picture.

- In video editing menu, use ▲ ▼ keys to select  { **Index Picture** } and press **OK** to select the current scene as the index picture for the title (recording.)

Splitting a title (DVD+RW only)

You can divide the current title into two new titles. Each of these titles is characterized by its own index picture.

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

- In video editing menu, use ▲ ▼ keys to select  { **Split Title** } and press **OK** to divide the title at the current playback position.
→ A new title will be shown at the Index Picture screen.

TIPS: No further recording and editing can be carried out on a finalized DVD+R.
Press ◀ to exit the menu.

Playback

Playable discs

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

Recording and Playback

DVD+RW (DVD 'plus' Rewritable;) can be recorded on over and over.



DVD+R (DVD 'plus' Recordable;) can be recorded only once



Playback only:

DVD Video (Digital Versatile Disc)



CD-RW (CD-Rewritable) Audio/MP3/ JPEG contents



CD-R (CD-Recordable) Audio/MP3/ JPEG contents



Audio CD (Compact Disc Digital Audio)



MP3-Disc



Video CD
(Formats 1.0, 1.1, 2.0)



Super Video CD



DivX Disc
(DivX 3.11, 4.x, 5.x)



IMPORTANT!

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

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

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

Inserting a disc

- 1 Press **OPEN CLOSE ▲** on the front of the DVD recorder.
→ The disc tray opens.
- 2 Carefully place the disc into the tray with the label facing up, then press **OPEN CLOSE ▲**.
→ Make sure the disc label is facing up. For double-sided discs, load the side which you want to play facing up.
- 3 Turn on the TV power. Select the correct Video In channel at the TV (see page 23.)
- 4 Playback will start automatically or a dialog will appear on the TV (see next page.)

TIPS: Some discs cannot be played on this DVD recorder due to the configuration and characteristics of the disc, or due to the condition of recording and authoring software.

Starting disc playback

- Playback will begin automatically. If the disc has its own menu this will be loaded, otherwise the DVD recorder will launch an index screen.
- If the pin code entry dialog appears on the TV, this means that the parental control was activated for the inserted disc (see page 53.)
→ Use the **numeric keypad 0-9** on the remote control to enter your pin code (password.)
- For more playback features, see pages 46~49 "Advance Playback Features."

Playing a DVD video disc

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

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

To select the previous or next chapter/title marker

- During playback, press **T/C** on the remote control to access the T/C menu. Then use ▲▼ keys to select { **Title** } or { **Chapter** } and input your title/chapter number using the **numeric keypad 0-9**.
- 2 To stop playback, press **STOP ■**.

Playing a (Super) Video CDs

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

- 1 Insert a (Super) Video CD.
If the 'PBC' is on, the disc index menu will appear on the TV
- 2 Use **numeric keypad 0-9** to input your selection or to select a play option.
- Press **RETURN** on the remote control to return to the previous menu.
- To turn on/off the Playback Control mode, press **T/C** on the remote control during playback to access the T/C menu. Then use ▲▼ keys to select { **PBC On** } or { **PBC Off** }.
- 3 To stop playback, press **STOP ■**.

Playing an audio CD

- 1 Insert an audio CD.
→ Playback starts automatically.
- 2 To stop playback, press **STOP ■**.
→ The track number and elapsed playing time appear on the display panel.

TIPS: Some discs cannot be played on this DVD recorder due to the configuration and characteristics of the disc, or due to the condition of recording and authoring software.

Playback (continued)

Playing a DVD+R/+RW disc

- 1 Insert a DVD+R/+RW disc.
→ The Index Picture screen appears.
- 2 Use ▲ ▼ keys to select a title and press **PLAY ▶** to start playback.
- 3 To stop playback, press **STOP ■**.

Helpful Hint:

– If the message 'BLANK' appears on the display panel, this means that there are no recordings on this disc.

Playing a DivX disc

This DVD system supports the playback of DivX movie which you have downloaded from your computer onto a CD-R/RW or DVD+R/+RW.

- 1 Insert a DivX disc.
→ The disc content menu appears.
- If the DivX movie contains external subtitles, you have to first select the subtitle file from the file list.
- Select the AVI file from the file list for playback.
- 2 Press **PLAY ▶** to start playback.

Helpful Hints:

– Subtitle files with the following filename extensions (.srt, .smi, .sub, .sami) are supported.
– It is normal to experience an occasional pixelation during MPEG-4/DivX playback due to poor clarity of digital contents during internet downloading.

Playing an MP3 disc

- 1 Insert an MP3 CD.
→ The disc content menu appears.



- 2 Use ▲ ▼ to navigate within the menu and select the album and track to play, then press **PLAY ▶**.
- 3 During playback, you can press ◀▶ to select the next/previous track.
- 4 To stop playback, press **STOP ■**.

Helpful Hints:

– Only the first session of a multi-session CD will play back.
– It is normal to experience an occasional "skip" while listening to your MP3 disc.
– Further information on the album, track and artist will also be displayed on the TV if included in the ID tag.

TIPS: Some discs cannot be played on this DVD recorder due to the configuration and characteristics of the disc, or due to the condition of recording and authoring software.

Playing a picture disc (slide show)

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

- 1 Insert a JPEG picture disc (CD, CD-R(W), DVD+R/+RW).
→ The disc content menu appears.

If the disc contained MP3 music and JPEG picture files, you can start a musical slide show playback, otherwise go to step 3.

- 2 Use ▲ ▼ keys to select an MP3 file and press **OK** to start the audio playback.
- 3 Use ▲ ▼ keys to select a picture file and press **OK** to start the slide show playback.
- 4 During playback, you can select to rotate or zoom in/out on the picture, and select a slide show playback animation.
- Use ◀ ▶ keys to rotate the picture.
▶ : Rotates the image clockwise.
◀ : Rotates the image counter-clockwise.
- Press **ANGLE** on the remote control repeatedly to choose a slide show playback animation.
→ The selected animation settings will appear in the top left corner of the TV screen.
- Press **ZOOM** on the remote control to enlarge the picture.
- 5 To stop playback, press **STOP** ■.

Playable JPEG picture disc

This DVD recorder can read JPEG pictures stored on a CD-ROM, Picture CD, or DVD.

File format:

- The file extension has to be '.JPG', '.JPE' or '.JPEG.'
- It can only display DCF-standard still pictures or JPEG pictures e.g. TIFF. It cannot play back moving pictures, Motion JPEG, progressive JPEG and other formats, or pictures in formats other than JPEG, or pictures associated with sound.
- It may require longer time for the DVD recorder to display the disc content on the TV due to the large number of songs/ pictures compiled into one disc.

TIPS: Some discs cannot be played on this DVD recorder due to the configuration and characteristics of the disc, or due to the condition of recording and authoring software.

Advance Playback Features

Changing to another title/ chapter/track

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

During playback,

- Press **▶▶** to go to the next title/chapter/track.
- Press **◀◀** to return to the start of the previous title/chapter/track.
OR
- Use the **numeric keypad 0-9** to input the title/chapter/track number.
OR
- Press **T/C** to enter the T/C menu and use **▲ ▼** keys to select { **Title** } or { **Chapter** } and use **numeric keypad 0-9** to input the title/chapter/track number.

Pausing playback and step play

- 1 During playback, press **||** to pause playback and display a still picture.
- 2 Press **||** again to move one frame forward.
- 3 To resume normal playback, press **▶▶**.

Searching forwards/ backwards

You can fast forward or fast reverse a disc at two, four, sixteen or thirty two times the normal playback speed.

- 1 During playback, press and hold down **◀◀** (reverse) or **▶▶** (forward) to switch to the search function.
→ The search status bar appears.
It displays the search speed (FREV x32, FREV x16, FREV x4, FREV x2, FFWD x2, FFWD x4, FFWD x16, FFWD x32)
→ The sound will be muted.
- 2 Press **◀◀** (reverse) or **▶▶** (forward) to cycle through the search speeds.
- 3 To resume normal playback, press **▶▶**.

Zooming in

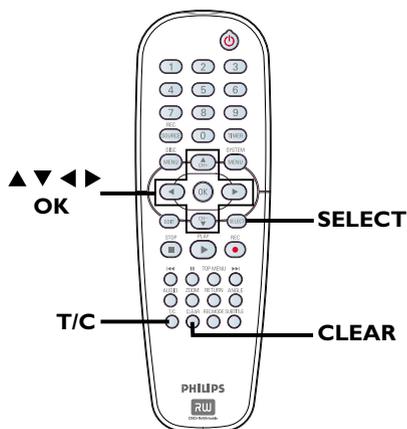
This option allows you to enlarge the picture on the screen and pan through the enlarged picture.

- 1 Press **ZOOM** on your remote control to activate zoom : 150% or 200%.
- 2 Use **◀▶ ▲ ▼** keys to pan through the zoomed picture.
- 3 To exit, press **ZOOM** until the picture returns to the normal size.

TIPS: The operating features described here might not be possible for certain discs. Always refer to the instructions supplied with the discs.

Additional Playback Features (continued)

Using T/C options



- 1 During playback, press **T/C** on the remote control.
→ The T/C menu appears on the TV.

▷ DVD	
Mode	Normal
Trick mode	Play
Title	02/05
Chapter	01/22
Audio	01/02 - 0TH
Subtitle	Off
Angle	01/03
T- Time	00:22:03 - 00:27:24

- 2 Use **▲ ▼** keys to select the setting you want to adjust.
→ Instructions and explanation of the options are provided in the following pages.
- 3 To exit, press **T/C**.

Selecting various repeat/shuffle functions

You can select various repeat play or random play mode during playback.

- 1 During disc playback, press **T/C** on the remote control.
→ The T/C menu appears.
- 2 Use **▲ ▼** keys to select { **Mode** } and press **OK**.
- 3 Use **▲ ▼** keys to select one of the repeat options.

{ Repeat A-B }

Select this to repeat the playback of a specific segment within a title/chapter/track. Press **OK** to mark the start and end of the segment you want to repeat.

{ Repeat Chapter }

Select this to repeat playback on the current chapter (DVD, DVD+R/+RW only.)

{ Repeat Track/Title }

Select this to repeat playback on the current track/title.

{ Repeat Directory }

Select this to repeat playback on the current folder/directory (MP3, JPEG, picture disc only.)

{ Repeat Disc }

Select this to repeat playback on the entire disc.

{ Shuffle }

Select this to randomly playback all the tracks within the disc (MP3 and audio CD only.)

{ Normal }

Select this to cancel the repeat mode and return to normal playback.

- 4 To cancel repeat playback, press **STOP ■** or select { **Normal** } and press **OK**.

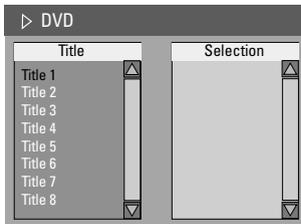
TIPS: The operating features described here might not be possible for certain discs. Always refer to the instructions supplied with the discs.

Additional Playback Features (continued)

Programming disc tracks

You can play the contents of the disc in the order you want by programming the tracks to be played. Up to 20 tracks can be stored.

- 1 Press **T/C** on the remote control twice.
→ The T/C menu appears.
- 2 Select { **Mode** } > { **Program.** }
→ The program menu appears.



- 3 If the disc is recorded with Titles/Folders/Albums, press **OK** to access the tracks/files/chapters.
- Pressing **OK** at the highlighted track/file/chapter will start playback.
- Use **◀▶** keys to toggle between the left and right screen.

To program your favorite track/file/chapter

- 4 Use **▲▼** keys to select the track/file/chapter to program and press **SELECT** on the remote control.
→ The selected track/file/title will appear at the right screen.
→ The order on the right screen will be the order of program playback.

To remove the programmed item from your selection

- 5 Press **▶** key to move to the right screen. Select the track/file/chapter and press **CLEAR** on the remote control.

To start program play

- 6 Press **▶** key to move to the right screen and press **OK**
→ Playback will start from the selected track/file/chapter according to the programmed sequence.

To exit program play

- 7 Press **STOP** **■** to exit program play.

Changing the audio soundtrack language

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

This function can also be accessed via the **AUDIO** on the remote control.

- 1 Press **T/C** on the remote control twice.
→ The T/C menu appears.
- 2 Use **▲▼** keys to select { **Audio** } and press **▶** to access its options.
- 3 Use **▲▼** keys to select the audio language and press **OK** to confirm.
→ The languages may be numbered or abbreviated, such as "En" for English.
→ If the language selected is not available on the disc, the disc's default setting for language will be used instead.

Helpful Hint:

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

TIPS: The operating features described here might not be possible for certain discs. Always refer to the instructions supplied with the discs.

Additional Playback Features (continued)

Changing subtitle language

This operation works only on DVDs with multiple subtitle languages, you can change the language you want while playing the DVD.

This function can be also accessed via **SUBTITLE** key on the remote control.

- 1 Press **T/C** on the remote control twice.
→ The T/C menu appears.
- 2 Use **▲ ▼** keys to select { **Subtitle** } and press **▶** to enter its options.
- 3 Use **▲ ▼** keys to select the language and press **OK** to confirm.
→ The languages may be numbered or abbreviated, such as “En” for English.
→ If the language selected is not available on the disc, the disc’s default setting language will be used instead.

Helpful Hint:

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

Switching camera angles

This option is only available with DVDs that contain sequences recorded from different camera angles. This allows you to view the picture from different angles. This function can also be accessed via the **ANGLE** on the remote control.

- 1 Press **T/C** on the remote control twice.
→ The T/C menu appears.
- 2 Use **▲ ▼** keys to select { **Angle** } and press **▶** to enter its options.
→ The camera angles available for selection appears.
- 3 Use **▲ ▼** keys to select the camera angle you want to switch to, then press **OK** to confirm.

TIPS: The operating features described here might not be possible for certain discs. Always refer to the instructions supplied with the discs.

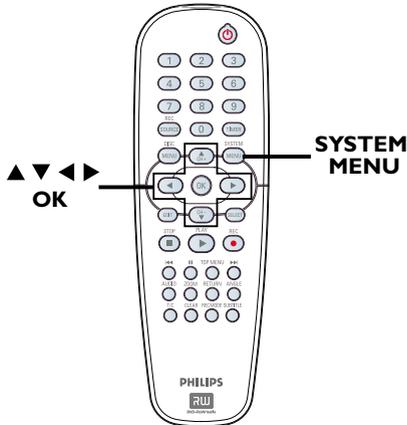
Time search

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

- 1 Press **T/C** on the remote control twice.
→ The T/C menu appears.
- 2 Use **▲ ▼** keys to select { **T-Time** } and use the **numeric keypad (0-9)** to enter the time required.
→ Playback skips to the selected time.

DVD System Menu Options

Accessing System Menu - General



Screen Saver

A screen saver prevents damage to the screen by avoiding exposing the screen to a static image for too long.

- 1 In 'System Menu-General,' use ▲▼ keys to highlight { **Screen Saver** } and press **OK**.

{ On }

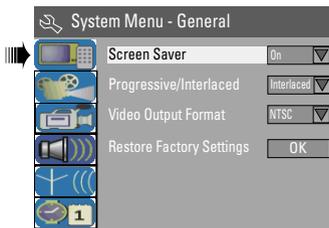
Select this if you wish to turn off the TV screen when play is stopped or paused for more than 15 minutes.

{ Off }

Select this to disable the screen saver.

- 2 Use ▲▼ keys to select a setting and press **OK** to confirm.

- 1 Press **SYSTEM-MENU** on the remote control.
→ The system menu appears on the TV.
- 2 Use ▲▼ keys to select  { **System Menu - General** } and press ► to access its options.



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

TIPS: The underlined option is the factory default setting.
Press ◀ to go back to previous menu item. Press **SYSTEM MENU** to exit the menu item.

DVD System Menu Options (continued)

Progressive/ Interlace

Progressive scan delivers a higher picture quality than the standard interlaced TV channel scan. It only works when you have connected the DVD recorder Y Pb Pr jacks to your TV that supports the progressive video input. Otherwise, the image may not appear or will be distorted. Please check your TV user manual for more information.

- 1 In 'System Menu-General,' use ▲ ▼ keys to select { **Progressive / Interlaced** } and press **OK**.

{ Interlaced }

Select this to enable interlaced feature.

{ **Progressive** }

Select this to enable progressive scan feature.

- 2 Use ▲ ▼ keys to select a setting and press **OK** to confirm.

Helpful Hints:

- Follow the instructions shown on the TV to confirm the selection (if any).
- If a blank/distorted TV screen appears, wait for 10 seconds for the auto recovery.

Video Output Format

The color system of the DVD system, DVD and TV should match. Only then will it be possible to play a DVD on this system. Before changing the TV system, determine the color system of your TV.

- 1 In 'System Menu-General,' use ▲ ▼ keys to select { **Video Output Format** } and press **OK**.

{ **NTSC** }

Select this if the connected TV has the NTSC color system. It will change the video signal of a PAL disc and output it to NTSC format.

{ **PAL** }

Select this if the connected TV has the PAL color system. It will change the video signal of an NTSC disc and output it to PAL format.

- 2 Use ▲ ▼ keys to select a setting and press **OK** to confirm.

Helpful Hint:

- If a blank/distorted TV screen appears, wait for 15 seconds for the auto recovery.

Restore Factory settings

This will restore all the settings of this DVD Recorder, except for the PIN code.

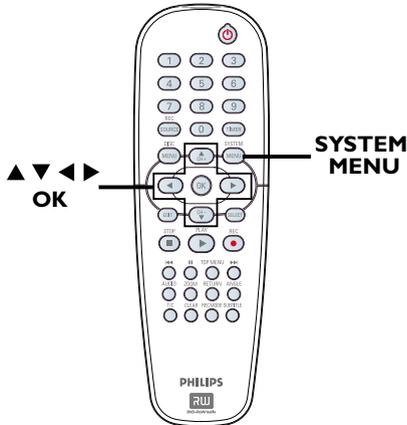
- 1 In 'System Menu-General,' use ▲ ▼ keys to select { **Restore Factory Settings** } and press **OK**.
→ A warning message will appear.
- 2 Select in the menu to proceed or to abort, then press **OK** to confirm.

TIPS: The underlined option is the factory default setting..

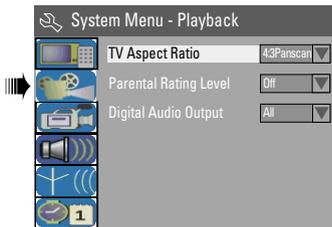
Press ◀ to go back to previous menu item. Press **SYSTEM MENU** to exit the menu item.

DVD System Menu Options (continued)

Accessing System Menu - Playback



- 1 Press **SYSTEM-MENU** on the remote control.
→ The system menu appears on the TV.
- 2 Use **▲ ▼** keys to select { **System Menu - Playback** } and press **▶** to access its options.



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

TV Aspect Ratio

Set the aspect ratio of the DVD recorder according to the TV you have connected. The format you select must be available on the disc. If it is not, the setting for TV display will not affect the picture during playback.

- 1 In 'System Menu-Playback,' use **▲ ▼** keys to select { **TV Aspect Ratio** } and press **OK**.

{ **16:9** }

Select this for wide screen TV (frame ratio 16:9).



{ **4:3 Letterbox** }

Select this for a 'wide screen' display with black bands on the upper and lower portions of the TV screen.



{ **4:3 panscan** }

Select this for a full-height picture with both side trimmed.



- 2 Press **▲ ▼** to select a setting and press **OK** to confirm.

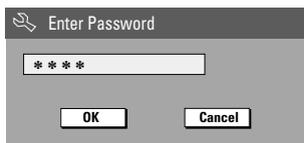
TIPS: The underlined option is the factory default setting.
Press **◀** to go back to previous menu item. Press **SYSTEM MENU** to exit the menu item.

DVD System Menu Options (continued)

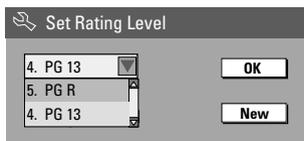
Parental rating level

Some DVDs may have a parental level assigned to the complete disc or to certain scenes on the disc. This feature lets you set a playback limitation level. The rating levels are from 1 to 8 and are country dependent. You can prohibit the playing of certain discs that are not suitable for your children, or have certain discs played with alternative scenes.

- 1 In 'System Menu-Playback,' use ▲ ▼ keys to select { **Parental Rating Level** } and press **OK**.
→ You will be prompted to enter your four-digit pin code.



- 2 Use the **numeric keypad 0-9** to enter your four-digit pin code.
→ When doing this for the first time, enter the default password '3308'.
→ The set rating level menu appears.



- If you forgot your four-digit pin code, the default password is 3308.
- 3 Use ▲ ▼ keys to select the top field and press **OK** to confirm.
- 4 Use ▲ ▼ keys to select the desired parental level, then move to **OK** in the menu and press **OK** on the remote control to confirm.
→ To disable parental controls and allow all discs to play, select { **Off** }.

Rating explanations

- { **Off** }
– Parental Control is not active.
- { **1. Kid Safe** } ~ { **2. G** }
– Childsafe; acceptable for viewers of all ages.
- { **3. PG** }
– Parental Guidance suggested.
- { **4. PG13** }
– Unsuitable for children under age 13.
- { **5. PG R** } ~ { **6. R** }
– Restricted; recommended that parents restrict children under 17 from viewing or allow to view only when supervised by a parent or adult guardian.
- { **7. NC 17** }
– No children under age 17; not recommended viewing for children under age 17.
- { **8. Adult** }
– Mature material; should be viewed only by adults due to graphic sexual material, violence or language.

- DVDs that are rated higher than the level you selected will not play unless you enter your four-digit pin code.

Helpful hints:

- This feature will not limit viewing if the disc manufacturer did not code the disc.
- VCD, SVCD, CD have no level indication, so parental control has no effect on these type of discs. This also applies to most illegal DVDs.
- Some DVDs are not coded with a rating though the movie rating may be printed on the Disc cover. The rating level feature does not prohibit play of such Discs.

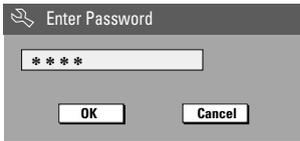
TIPS: The underlined option is the factory default setting.
Press ◀ to go back to previous menu item. Press **SYSTEM MENU** to exit the menu item.

DVD System Menu Options (continued)

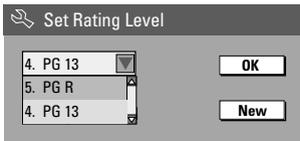
Setting or changing the password

You need to enter your four-digit password to play a prohibited disc or if prompted for a pin code.

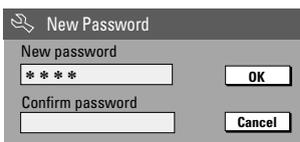
- In 'System Menu-Playback,' use ▲ ▼ keys to select { **Parental Rating Level** } and press **OK**.
→ You will be prompted to enter your four-digit pin code.



- Use the **numeric keypad 0-9** to enter your four-digit pin code and select **OK** in the menu and press **OK** on the remote control to confirm.
→ The set rating level menu appears.



- Move to **New** in the menu and press **OK** to access new password menu.



- Use the **numeric keypad 0-9** to enter your new four-digit pin code, then press ▼ to select the next entry field and enter the same pin code a second time.
- Move to **OK** in the menu and press **OK** to confirm.
→ To abort the change, select **CANCEL** and press **OK**.

Digital Audio Output

After connecting the DVD recorder to your TV and other devices, you may need to change the digital output setting. Adjust the Digital Output only if you used the DVD recorder's coaxial jack.

- In 'System Menu Playback,' use ▲ ▼ keys to select { **Digital Audio Output** } and press **OK**.

{ ALL }

Select this if you use the COAXIAL jack to connect the DVD recorder to a stereo receiver that has a built in Multi-Channel decoder.

{ LPCM }

Select this if the connected audio equipment is not capable of decoding multichannel audio Dolby Digital and MPEG-2 multi - channel signals are converted to PCM (Pulse Code Modulation.)

- Use ▲▼ keys to select a setting and press **OK** to confirm.

TIPS: The underlined option is the factory default setting.
Press ◀ to go back to previous menu item. Press **SYSTEM MENU** to exit the menu item.

DVD System Menu Options (continued)

Accessing System Menu - Record

See pages 27~28 on "Recording settings."

Accessing System Menu - Language

See page 26 on "Setting the language."

Accessing System Menu - Channel Setup

See pages 24~25 on "TV channel programming."

Accessing System Menu - Clock

Date and Time

See page 26 on "Setting the time & date."

Show DivX® registration code

Philips provide you the DivX® VOD (Video On Demand) registration code that allows you to rent and purchase videos using the DivX® VOD service. For more information, visit us at www.divx.com/vod.

- 1 In 'System Menu-Clock,' use ▲ ▼ keys to select { **Show DivX® registration code** } and press **OK**.
→ The registration code will appear.
- 2 Press **SYSTEM MENU** to exit.
- 3 Use the registration code to purchase or rent the videos from DivX® VOD service at www.divx.com/vod. Follow the instructions and download the video from your computer onto a CD-R/RW for playback on this DVD recorder.

Helpful Hint:

– All the downloaded videos from DivX® VOD can only be played back on this DVD recorder.

TIPS: The underlined option is the factory default setting.
Press ◀ to go back to previous menu item. Press **SYSTEM MENU** to exit the menu item.

Troubleshooting

WARNING

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

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

Problem	Solution
No power.	<ul style="list-style-type: none">– Press STANDBY-ON button on the front of the DVD recorder to switch on the system.– Make sure the AC outlet has power.
Remote control does not work.	<ul style="list-style-type: none">– Aim the remote control directly at the sensor on the front of the DVD recorder (not towards TV.) If the DVD recorder receives a signal from the remote control, icon  will appear on the display.– Remove any obstacles between DVD recorder and the remote control.– Batteries are weak, replace the batteries.– Press REC SOURCE on the remote control to select an input source.
Disc does not play.	<ul style="list-style-type: none">– Insert the disc with the label facing up.– Wrong region code. The DVD must be coded for ALL regions or Region 1 in order to play on this DVD recorder.– There is no recording on the disc or wrong disc type. Read chapter “Playback - Playable discs” for details.– Make sure the disc is not scratched or warped. Clean the disc or replace a new one.– Check if the disc is defective by trying another disc.
No sound.	<ul style="list-style-type: none">– Check the audio connections, the red and white jacks. Read chapters “Getting Started - Connecting the audio cables” for details.– Set the Digital output correctly, based on the equipment you connected to the DVD recorder. Read chapter “Accessing System Menu - Digital Audio Output” for details.– PAL input signal received from external device is not supported.
Distorted sound coming from a connected hi-fi amplifier.	<ul style="list-style-type: none">– Do not connect any cables from the DVD recorder to the 'Phono' input of your amplifier.– Do not connect the DVD recorder's Coaxial DIGITAL AUDIO OUT jack to an analog jack (red/white) on the connecting devices.
Unable to play DivX movies.	<ul style="list-style-type: none">– Check that the DivX file is encoded in 'Home Theater' mode with DivX 5.x encoder.

Troubleshooting (continued)

Problem	Solution
No picture.	<ul style="list-style-type: none">– Switch on your TV and set to the correct Video In channel. Change the TV channel until you see the DVD screen. Read chapter “Getting Started - Setting the TV” for details.– Check the video connection between the DVD recorder and the TV.– PAL input signal received from external device is not supported.
The picture is distorted or black and white during playback.	<ul style="list-style-type: none">– The disc does not match with the TV color system standard (PAL/NTSC).– The disc is dirty, clean the disc.– Sometimes a small amount of picture distortion may appear. This is not a malfunction.– If you set the Record Mode to a low-quality speed, change to a higher-quality speed after you finish recording. Leaving the DVD recorder set to a low-quality speed may affect the picture quality when playing DVDs later. Read chapter “Recording - Recording settings” for details.– The recording can be made in color only when the TV channels or the connected additional device sends a color signal. In some situations, programs that are broadcast in black and white cannot be recorded.
Recordings are not occurring as scheduled. New recordings cannot be made.	<ul style="list-style-type: none">– The TV channel you want to record is not stored or you selected the wrong program number. Check TV channels stored.– If you adjust the clock after you set a timer recording, reset the timer recording.– If the DVD recorder cannot read the disc, you cannot record.– You cannot use the DVD recorder to duplicate copyrighted materials (DVDs or videotapes) onto a DVD+R/+RW.– A finalized DVD+R has been inserted. Change disc.
No TV signal received from the DVD recorder.	<ul style="list-style-type: none">– Install the TV channel. Read chapter “Step3 :TV channel programming” for details.
A DVD+R/+RW recorded on this DVD recorder does not play on a DVD player.	<ul style="list-style-type: none">– If a recording is too short, it is possible that a DVD player cannot detect it. Please observe the following ‘minimum recording times’. Recording mode : {1 hour} – 5 minutes, {2 hours} – 10 minutes, {4 hours} – 20 minutes, {6 hours} – 30 minutes.– You have to finalize the DVD+R. Refer to chapter “Playing your recordings (DVD+R) on other DVD players” for details.
Picture is fuzzy and brightness varies when copying DVD Video discs or prerecorded video cassettes.	<ul style="list-style-type: none">– This happens if you try to copy DVDs or video cassettes that have been copy-protected. Even though the picture on the TV is fine, but the recording on a DVD+R/+RW is faulty. This interference is unavoidable with copy-protected DVDs or video cassettes.– The DVD+R/+RW has recording lifetime, please change a new disc for recording.

Specification

Picture/Display

- Aspect ratio: 4:3, 16:9
- D/A converter: 10 bit, 54 MHz
- A/D converter: 10 bit, 54 MHz
- Picture enhancement: Progressive Scan

Sound

- D/A converter: 24 bit, 96 kHz
- A/D converter: 24 bit, 96 kHz
- Signal to noise ratio: 106
- Crosstalk (1kHz): 105 dB
- Dynamic Range (1kHz): 90 dB

Video Recording

- Recording system: NTSC
- Compression formats: MPEG2
- Recording modes: 1 hour (high quality), 2 hours (DVD quality), 4 hours (VHS quality), 6 hours (VHS quality)
- Audio compression: Dolby Digital

Video Playback

- Disc playback media: CD, CD-R/-RW, DVD, DVD-Video, DVD+R/+RW, SVCD, Video CD,
- Compression formats: MPEG2, MPEG1, MPEG4, DivX,
- Video disc playback system: NTSC, PAL

Audio Playback

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

Still Picture Playback

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

Storage Media

- Recording media: DVD+R, DVD+RW
- Recording speed: 2.4x

Tuner/Reception/Transmission

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

Connectivity

Rear Connections:

- Component Video Out Interlaced/Progressive
- S- Video Out/In
- Video (CVBS) Out/In
- Audio left/right Out/In
- Digital audio out (coaxial)
- RF antenna in
- RF TV out
- Mains

Front Connections:

- i.LINK DV in (IEEE 1394 4-pin)
- S-Video In
- Video In
- Audio left/right In

Convenience

- Programming/Timer Enhancements: Daily/Weekly, Repeat Program, Manual Timer, One Touch Recording, VCR Plus+
- Programmable events: 20
- Programming period: 1 month

Power

- Power supply: 110~130 VAC (120Vnom)
- Consumption: 25 W (typical)
- Standby power consumption: < 3W

Cabinet

Dimensions (wxhxd) : 435 x 65 x 285 mm
Net Weight : 3.85 kg

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

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

AUDIO OUT Jacks: Red and white jacks on the back of the system that send audio to another system (TV, Stereo, etc.)

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

Component Video Out Jacks: Jacks on the back of the DVD System that send high-quality video to a TV that has Component Video In jacks (R/G/B, Y/Pb/Pr, etc.)

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

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

DivX 3.11/4.x/5.x: The DivX code is a patent-pending, MPEG-4 based video compression technology, developed by DivXNetworks.Inc., that can shrink digital video to sizes small enough to be transported over the internet, while maintaining high visual quality.

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

DTS: Digital Theater Systems. This is a surround sound system, but it is different from Dolby Digital. The formats were developed by different companies.

Index Picture Screen: A screen that gives an overview of a DVD+RW or DVD+R. An Index Picture represents each recording.

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

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

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

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

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

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

Parental control: Limits disc play according to the age of the users or the limitation level in each country. The limitation varies from disc to disc; when it is activated, playback will be prohibited if the software's level is higher than the user-set level.

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

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

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

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

VIDEO OUT jack: Yellow jack on the back of the DVD system that sends the DVD picture video to a TV.

PHILIPS LIMITED WARRANTY

One (1) Year Labor and Parts Repair (Facility)

PHILIPS CONSUMER ELECTRONICS warrants this product against defect in material or workmanship, subject to any conditions set forth as follows:

PROOF OF PURCHASE:

You must have proof of the date of purchase to receive warranted repair on the product. A sales receipt or other document showing the product and the date that you purchased the product as well as the authorized retailer included, is considered such proof.

COVERAGE:

(If this product is determined to be defective)

LABOR: For a period of one (1) year from the date of purchase, Philips will repair or replace the product, at its option, at no charge, or pay the labor charges to the Philips authorized repair facility (see warranty service phone numbers in next column). After the period of one (1) year, Philips will no longer be responsible for charges incurred.

PARTS: For a period of one (1) year from the date of purchase, Philips will supply, at no charge, new or rebuilt replacement parts in exchange for defective parts. Philips authorized repair facility will provide removal and installation of the part under the specified labor warranty.

EXCLUDED FROM WARRANTY COVERAGE

Your warranty does not cover:

- Labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- Product repair and/or part replacement because of improper installation, connections to improper voltage supply, abuse, neglect, misuse, accident, unauthorized repair or other cause not within the control of Philips.
- A product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- Damage occurring to product during shipping when improperly packaged or cost associated with packaging.
- Product lost in shipment and no signature verification of receipt can be provided.
- A product used for commercial or institutional purposes (including but not limited to rental purposes).
- Products sold AS IS or RENEWED.

SHIP-IN WARRANTY

For Ship-In warranty repair, ship the product to a Philips authorized service facility for repair in its original carton and packing material. If you do not have the original carton or packing material, have your product professionally packed for shipping. Ship product via a traceable carrier. When it is necessary for you to ship the product to Philips for repair, you will pay the shipping cost for shipment to Philips. Philips will pay the shipping costs when returning the product to you.

TO OBTAIN WARRANTY SERVICE IN THE U.S.A., PUERTO RICO, OR U.S. VIRGIN ISLANDS...

Contact Philips Customer Care Center at:
1-888-PHILIPS (1-888-744-5477)

TO OBTAIN WARRANTY SERVICE IN CANADA...

1-800-661-6162 (French Speaking)
1-888-PHILIPS (1-888-744-5477) (English or Spanish Speaking)

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY FOR THE CONSUMER. PHILIPS SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusions or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. In addition, if you enter into a service contract agreement with the PHILIPS partnership within ninety (90) days of the date of sale, the limitation on how long an implied warranty lasts does not apply.

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

Philips, P.O. Box 671539, Marietta, GA. 30006-0026

(Warranty: 4835 710 27100)