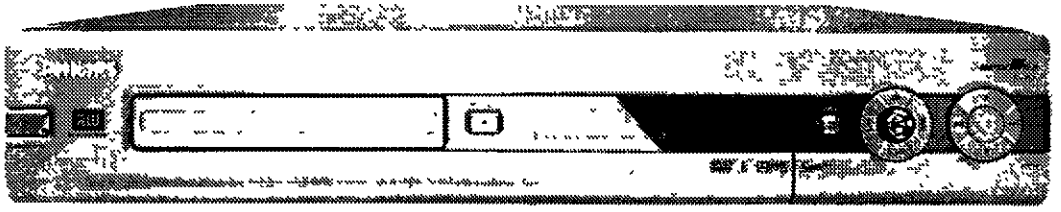
Digital Video Disc Recorder
Owner's Manual

DVDR 80

GUIDEplus+ GEMSTAR



STOP!

Need help? Call us!

Philips representatives are ready to help you with any questions about your new product. We can guide you through Connections, First-time Setup, or any of the Features. We want you to start enjoying your new product right away!

CALL US BEFORE YOU CONSIDER RETURNING THE PRODUCT

1-800-531-0039

or

Visit us on the web at www.philips.com

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

Let's make things better.

PHILIPS

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

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

Warranty Verification

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

Owner Confirmation

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

Model Registration

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

PHILIPS

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

Dear PHILIPS product owner:

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

As a member of the PHILIPS "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry. What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network. Most importantly, you can count on our uncompromising commitment to your total satisfaction. All of this is our way of saying welcome - and thanks for investing in a PHILIPS product.

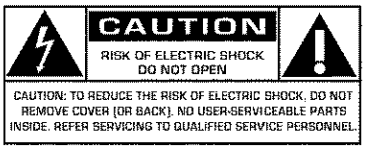
Sincerely,

Lawrence J. Blanford

Lawrence J. Blanford
President and Chief Executive Officer

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

Know these **safety***symbols*



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

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

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

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, 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.: **DVDR 80/17**
Serial No. _____

Safety Information

Safety Precautions

Warning:To prevent fire or shock hazard, do not expose this equipment to rain or moisture.
Federal Communications Commission (FCC) Warning: Any unauthorized changes or modifications to this equipment void the user's authority to operate it.

Laser Safety

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.
CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. The set complies with the FCC-Rules, Part 15 and with 21 CFR 1040.10.
CAUTION: Visible and invisible laser radiation when open and interlock defeated. Do not stare into the beam. The beam is located inside, near the deck mechanism.

Special Information for Canadian Users

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.

Radio/TV Interference

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

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

Note to Cable TV system installer:

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

Copyright Protection

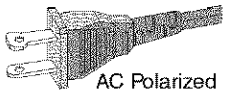
Unauthorized copying, broadcasting, public performance and lending of Discs are prohibited. This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Declaration of Conformity

Model Number:	DVDR 80/17
Trade Name:	Philips
Responsible Party:	Philips Consumer Electronics P.O. Box 14810, Knoxville, TN 37914-1810 1-800-531-0039

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 of the 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.



AC Polarized Plug

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.
12. **Use only with a 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 longtime.

EL 6474-E004:02/8

The remote control

REC/OTR ●	**Record**: Record the current TV channel
STANDBY ⏻	**Switch on or off**: To switch set on or off, interrupt menu function, interrupt a programmed recording (TIMER)
TIMER ⏲	**TIMER**: To make a TIMER programming with VCR Plus+® system / without VCR Plus+® system or to alter or clear a programmed TIMER
REC MODE	**Recording mode (quality)**: To select the maximum possible recording duration
PLAY MODE	**Playback mode**: To select Repeat, Shuffle, and Intro Scan
TV/DVD	**TV/DVD**: To connect the antenna signal directly to the TV. This button lets you switch between the DVD Recorder and the antenna signal. This function operates when the DVD Recorder is connected to the TV with only an antenna cable.
MONITOR	**Monitor**: To switch between the internal tuner of the DVD Recorder (TV reception) and playback of the DVD Recorder
DIM	**Dimmer**: This button allows you to adjust the display brightness in two steps or shut it off (BRIGHT, DIMMED, OFF).
RETURN	**Back**: To return to the previous menu step on a video CD (VCD). This also functions with some DVDs.
T/C	**Title/Chapter**: To directly select a 'T'(title)/'C'(chapter) in the menu bar If 'INFO' appears in the display, the index menu of the loaded disc will appear or an introduction will play. In this case, this function will not be available.
DISC MANAGER	**Disc Manager (DM)**: To display or cancel the Disc Manager(DM)
FSS ✂	**Favorite Scene Selection**: To display the edit menu for DVD+R(W) discs, to set chapter marker
SELECT	**Select**: To select a function
i	**Info**: To call up additional information in the GUIDE Plus+® system.
SUBTITLE	**Subtitle**: To select the subtitle language
AUDIO	**Audio**: To select the audio language. For SAP recording
ANGLE	**Angle**: To select the camera angle
ZOOM	**Zoom**: To enlarge the picture
DISC-MENU	**Disc Menu**: To display the DVD menu or index screen
GUIDE/TV	**GUIDE Plus+® system**: To call up the GUIDE Plus+® system
◄ ►	**Cursor buttons** : To move left, right
▲ CH+	**Cursor buttons/Plus** : Cursor up / Next channel
▲ CH+	**Cursor buttons/Minus** : Cursor down / Previous channel
OK	**Store/Confirm**: To store or confirm an entry

SYSTEM-MENU	**System Menu**: To display/hide the main menu (menu bar at top of screen)
STOP ■	**Stop**: To stop playback/recording, except with programmed recordings (TIMER) Holding down the button will open and close the disc tray.
PLAY ►	**Playback**: To play a recorded disc.
I◄◄	**Previous Chapter, Track/Reverse search**: Pressing this button once during playback will return to the previous chapter track/ title If this button is held down during playback, it will search backward. If this button is held down during a still picture, it will search backward in slow motion.
SLOW ▷	**Slow motion**:
PAUSE II	**Pause(still picture)**: If this button is pressed during playback, the DVD Recorder switches to pause. You will see a still picture. If this button is pressed during recording, the DVD Recorder will also switch to pause.
►►I	**Next title/Chapter/Track/Forward search**: Pressing this button once during playback will jump to the next chapter/track. If this button is held down during playback, it will search forward. If this button is held down during a still picture function, it will search forward in slow motion.
0..9	**Number buttons**: 0 - 9
CLEAR	**Delete**: To delete last entry or clear programmed recording (TIMER)

Additional TV functions

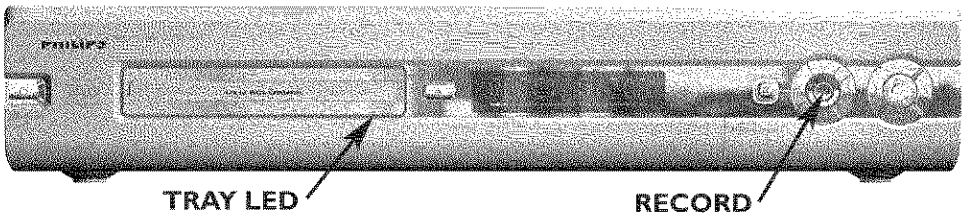
This will only work with TVs with the same remote control code (RC5) (e.g. Philips TVs)

VOL +	**TV volume**: Increase TV volume
VOL −	**TV volume**: Reduce TV volume
MUTE 🔇	**TV sound off**: Switch TV sound on/off

For the following functions, you must hold down the side button • **TV** while pressing the other button.

STANDBY ⏻	**Switching the TV off**:
0..9	**Number buttons**: 0 - 9
▲ CH+	**TV Channel**: To select the next highest TV channel.
CH- ▼	**TV Channel**: To select the next lower TV channel.

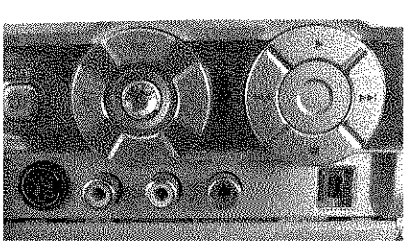
Front of the Recorder



STANDBY-ON ⏻	**Switch on or off**: To switch the DVD Recorder off or on, interrupt a function, or interrupt a programmed recording (TIMER)
OPEN/CLOSE ⏏	**Open/close disc tray**
TRAY LED	**Recording in progress**: Red light around the disc tray indicates a recording in progress.
GUIDE	**GUIDE Plus+® system**: To call up/cancel the GUIDE Plus+® system. When the GUIDE Plus+® system is active, a white light around the button is on.
UP , DOWN	**Select**: Higher/lower channel Cursor up/down in the Guide Plus+® system
LEFT , RIGHT	**Select**: In the Guide Plus+® system: Cursor left/right
RECORD	**Record**: Record the current TV channel In the Guide Plus+® system: green function button.
►	**Playback**: To play a recorded disc. In the Guide Plus+® system: OK button.
⏮	previous chapter track/reverse search
⏭	next chapter track/forward search
■	**Stop**: Pause playback/recording

Behind the door at the lower right front corner

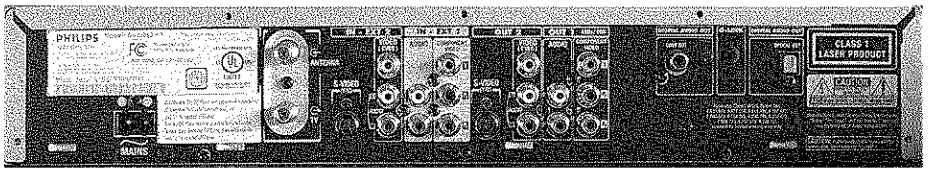
S-VIDEO	**S-Video jack** : Input for SVHS/Hi8 camcorders or SVHS/Hi8 video recorders (channel number 'CAM 1')
Yellow jack VIDEO	**Video input jack**: Input for camcorders or video recorders (channel number 'CAM 1')
White/Red jack left AUDIO right	**Audio input jack left/right** : Input for camcorders or video recorders (Channel number 'CAM 1')



Switching between jack **S-VIDEO** and **VIDEO** is done automatically. In case both jacks are occupied, the signal at jack **S-VIDEO** is given priority.

DV IN	**i.Link / DV jack (digital video input, IEEE 1394, Firewire)**: Input for digital Camcorders or other suitable devices using this connector (channel number '*CAM2*').

Back of the Recorder



~MAINS	**Power plug**: Connection to the power outlet (110V/60Hz)
ANTENNA IN	**Antenna input**: Connect your antenna or Cable TV signal here
TV OUT	**Antenna output**: Connection to the TV

Input jacks (IN-EXT2)

S-VIDEO IN	**S-Video input**: Connection for an additional device (channel number '***EXT2***'). Switching between jack **S-VIDEO IN** and **Video in** is done automatically.
Video in	**Video input (yellow jack)**: Connection for an additional device (channel number '***EXT2***')
IN L AUDIO R	**Analog audio input (red/white jack)** underneath jack **Video in** . Audio for jack **Video in** : Connection for an additional device (channel number '***EXT2***')

Input jacks (IN-EXT1)

IN AUDIO LR	**Analog audio input (red/white jack)** next to jack **IN COMPONENT VIDEO** : Connection for an additional device. Audio input for component video (channel number '***EXT1***')
IN COMPONENT VIDEO	**Component video input (red/blue/green jack)**: Connection for an additional device with component video output (channel number '***EXT1***')

Output jacks (OUT-2)

S-VIDEO OUT	**S-Video output**: Connection for a S-video-compatible TV
OUT VIDEO (CVBS)	**Video output (yellow jack)**: Connection to a TV with video input (CVBS, Composite Video)
OUT L AUDIO R	**Analog audio output (red/white jack)** underneath jack **Video in** . Audio for jack **OUT VIDEO (CVBS)** : Connection for an additional device

Output jacks (OUT-1 480p/480i)

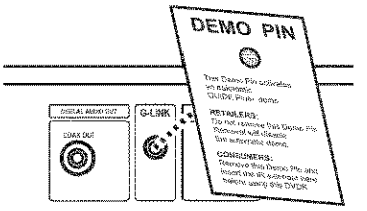
OUT AUDIO LR	**Analog audio output (red/white jack)**: Connection for an additional device. Audio output for component video/progressive scan
OUT COMPONENT VIDEO	**Component video output (red/blue/green jack)**: Connection for an additional device with component video/progressive scan output

Output jacks (DIGITAL AUDIO OUT)

COAX OUT	**Coaxial digital audio output**:
OPTICAL AUDIO OUT	**Optical digital audio output**:

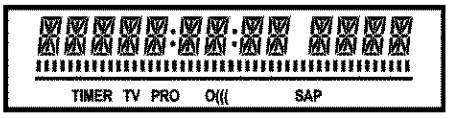
Output jack (G-LINK)

G-LINK	Connection of the IR Blaster(IR extender) for a cable box. **WARNING** This jack contains a 'DEMO PIN'. This enables a demonstration of the GUIDE Plus+® system to be shown automatically with stored data. Remove the Demo Pin to disable the Retail Demo feature.



The symbols on your DVD Recorder display

The following symbols may appear on your DVD Recorder display:



88:88	Multifunction display/text line •) Clock •) Disc/Title play time •) OTR time •) Title name •) Display of the TV channel number / playing time / function. •) Display of information, warnings
IIIIIIIIIIIIII	Disc bar: Displays the current position on the disc (disc pointer). Play/Record: single flashing segment at the current position. Pause: flashing segment on both sides of the current position. Stop: flashing segment at the current position.
TIMER	A recording (Timer) has been programmed
TV	Modulator is switched off. The antenna signal (RF signal) is only connected to the TV when the modulator is switched off.
PRO	Component Video output set to 'Progressive Scan.' If this is not displayed, the Component Video output is set to 'Interlaced.'
o(((	Remote control command has been sent

SAP	Second audio program from the tuner is selected

Messages on your DVD Recorder display

The following messages may appear on your DVD Recorder display. If you name a disc, the disc name will appear on the display panel as well.

IS TV ON?	The DVD Recorder is currently in the initial installation mode. Switch on your TV and read section 'Initial installation' in chapter 'Installing your DVD Recorder.'
NO SIGNAL	No signal or poor signal strength
MENU	The on-screen menu display is on.
OPENING	Disc tray is opening.
TRAY OPEN	Disc tray is open.
CLOSING	Disc tray is closing.
READING	Disc is being read.
MENU UPDT	After a successful recording, the list of disc contents is updated.
INIT MENU	After the first recording has been successfully completed on a new disc, the menu structure is created.
COPY PROT	The DVD/video cassette you are trying to copy is copy protected.
WAIT	Please wait until this message disappears. The DVD Recorder is busy processing another operation.
NO DISC	No disc has been inserted. If a disc has been inserted, then it is possible that the disc cannot be read.
INFO	Information on the inserted DVD is displayed on the screen.
BUSY	The DVD Recorder is busy making changes DVD-compatible.
ERASING	Entire disc is being erased.
EMPTY DISC	Inserted disc is new or has been completely erased (no recordings present).
PROTECTED	Disc cannot be recorded on.
MAX TITLE	The maximum number of titles has been reached for the disc. Each disc can have a maximum of 48 titles.
MAX CHAP	The maximum number of chapters per title/disc has been reached. The maximum number of chapters per title is 99, and 124 per disc.
DISC FULL	Disc is full. There is no room for new recordings.
PAL DISC	A disc with PAL recordings has been inserted and an attempt was made to record an NTSC signal. Insert a new disc or use a disc containing NTSC recordings.

NTSC DISC	A disc with NTSC recordings has been inserted and an attempt was made to record a PAL signal. Insert a new disc or use a disc containing PAL recordings.
RECORDING	An unauthorized action was attempted during recording (e.g. pressing the **OPEN/CLOSE** ▲ button).
FREE TITLE	An empty tile was selected.
DISC LOCK	An attempt was made to record on a protected disc during playback. This message will also appear when an attempt is made to insert a chapter marker(**FSS** ✂ button).
DISC ERR	An error occurred when writing the title. If this happens often, please clean the disc or use a new one. Read section 'Cleaning discs' in the next chapter on how to clean the disc.
DISC WARN	An error occurred when writing the title. The recording will continue, but the error will be skipped.
SETUP	After the automatic channel search, the menu for setting the time/date appears on the screen.
WAIT 01	During automatic channel search, the detected TV channels are counted.
BLOCKED	It is not possible to close/open the disc tray.
SAFE REC	The new recording will be added to the end of all recordings (SAFE RECORD).
POST-FORMAT	Post format

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1 Introduction

Dear Philips customer,

Instruction manuals are usually very dry since they are technically-oriented and often poorly translated. I have been employed by Philips for this reason.

Allow me to introduce myself.
My name is Phil. I will be guiding you through the owner's manual and try to be of help in operating your new device. At appropriate points along the way, I will be providing you with the following information:

(Question)?
Here I will be explaining seemingly unimportant things.

Tip
Here I will be giving you instructions on functions that help make it easier to use your DVD Recorder.

Problem
Here I will help you find the cause of problems and their solutions.

I hope you have lots of fun with your new DVD Recorder.

Phil

P.S.: If you have questions or if problems come up during operation, please see the helpful information in the chapter 'Before you call technical support'. If this doesn't help you resolve the problem, please call the **customer support service** for your country.
The corresponding telephone numbers and addresses can be found on the last page of this owner's manual.

Welcome to the large family of PHILIPS DVD owners.
Thank you for buying a DVDR 80/17 .
Please take the time to read this owner's manual before using your DVD Recorder. It contains important information and notes regarding operation.
The DVD Recorder should **not be turned on immediately after transportation** from a cold to a hot area or vice versa, or in conditions of extreme humidity.
Wait at least **three hours** after transporting the device. The DVD Recorder needs this to acclimate to its new environment (temperature, air humidity, etc.).

Your Philips team hopes you will enjoy using your new DVD Recorder.

What is a DVD?

DVDs (Digital Video Discs) are the new storage medium that combines the convenience of the Compact Disc with the latest advanced digital video technology. DVD Video uses state-of-the-art MPEG2 data compression technology that allows an entire film to be put on a single 5-inch disc.

How high is the resolution compared to VHS?

The crystal-clear digital pictures have a resolution of over 500 lines, with 720 pixels (picture elements) per line. This resolution is more than double that of VHS and is superior to Laser Discs. The quality can be compared to digital masters made in recording studios.

What is DVD+RW?

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

What is DVD+R?

DVD+R (recordable DVD). In contrast to DVD+RW, this disc can only be recorded once. If a disc has not been finalized after recording, it can continue to be recorded upon in the DVD Recorder. Old recordings can be later deleted, but they cannot be overwritten. The deleted titles are marked as '***Deleted title***.'
For this disc to be played in a DVD player, it must be 'finalized' in the DVD Recorder. After this has been completed, no further recordings can be added.

What can my DVD Recorder do?

Your Philips DVD Recorder is a Recorder and Player for digital video discs, with a two-way compatibility to the universal DVD Video standard. This means that:
•)existing pre-recorded DVDs can be played.
•)recordings made on your DVD Recorder can play on existing DVD Video players and DVD-ROM drives. In some cases, the discs may have to be finalized before they will play on other DVD players.

Compatible discs

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

Recording and Playback

DVD+RW (Digital Versatile Disc + Rewritable); can be recorded on over and over.

DVD+R (Digital Versatile Disc + recordable); can be recorded on once.

Playback only:

DVD Video (Digital Versatile Disc)

DVD-R (DVD-Recordable)

DVD-RW (DVD-Rewritable) Can only be played back when the recording was made in 'video mode' and the recording was finalized.

Audio CD (Compact Disc Digital Audio)

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

Video CD (Formats 1.0, 1.1, 2.0)

Super Video CD

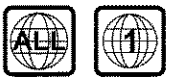
CD-R (CD-Recordable) Audio/MP3 contents

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

Region codes

Because DVD films are usually not released at the same time in all regions of the world, all DVD players are keyed to a specific region code. Discs can be assigned an optional region code. If the region codes of the player and disc do not coincide, playback is not possible.

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 in this DVD Recorder.
The number within the globe represents the region of the world.
Region 1 represents:
U.S, Canada, upper regions of North America, Bermuda, U.S. Virgin Islands and smaller regions near Australia.



Technical data

Voltage : 110-130V/60Hz
Power consumption : 32W
Power consumption (Standby): Less than 7W (clock display off)
Measurements in inches (W/H/D): 17.2/3.0/13.30 (disc tray closed), 18.58 (disc tray open)
Weight without packaging approx.: 4.0kg
Power failure/no power supply: Channel and timer data will remain stored for approx. 1 year, the clock data for approx. 12 hours.

Operating position: max. inclination of 10 degrees in any direction
Ambient temperature: 59 °F - 95 °F
Humidity: 25% - 75%

Accessories

Owner's manual
Warranty booklet
Quick-start guide
Remote control and batteries
Antenna cable
Power cable
Component video cable (cinch cable with red/blue/green plugs)
Video cable (with yellow plugs)
Audio cable (with red/white plugs)
IR Blaster
DVD+RW

Important notes regarding operation

Caution!
Visible and invisible laser radiation. When open avoid exposure to beam.

Because of the danger of eye injury, only qualified service personnel should remove the cover or attempt to service this device.

LASER
Type: Semiconductor laser InGaAlP (DVD), AlGaAs (CD)
Wavelength: 660nm (DVD), 780nm (CD)
Output power (out of objective): 20mW (DVD+RW writing), 0.8mW (DVD reading), 0.3mW (CD reading).
Beam divergence: 82 degrees (DVD), 54 degrees (CD)

Danger: High voltage! Do not open!
There is a risk of an electrical shock!

The machine does not contain any components that can be repaired by the customer. Please leave all maintenance work to qualified personnel.

As soon as the DVD Recorder is connected to the power supply, there are some components that are in constant operation. To switch off the DVD Recorder completely you must disconnect it from the power supply.

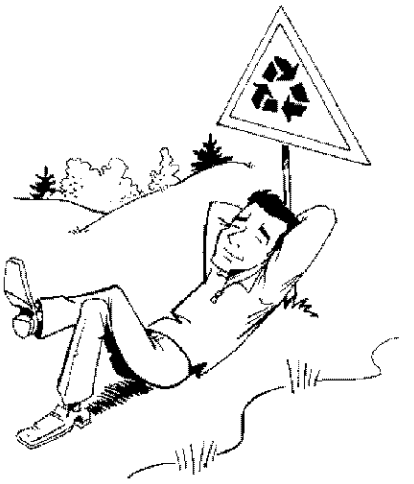
If you disconnect the DVD Recorder from the power supply, pull out the power cord's plug from the wall outlet, not only the plug from the jack ∼ **MAINS** at the rear of the set. Children playing near the device could suffer injuries at the free end of the cable.

These Owner's manual have been printed on non-polluting paper.

Deposit old batteries at the appropriate collection points.

Please make use of the facilities available in your country for disposing of the packaging in a way that helps protect the environment.

This electronic device contains many materials that can be recycled. Please enquire about the possibilities for recycling your old device.



In a cabinet, allow about 2.5 cm (1 inch) of free space around the Recorder for adequate ventilation.

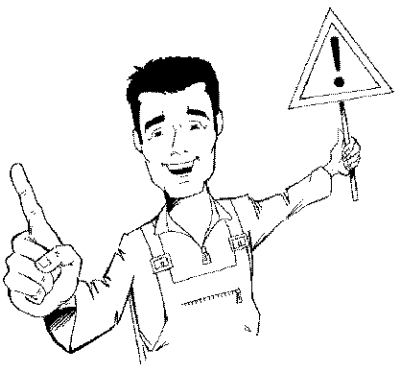
Make sure that air can circulate freely through the ventilation slots on the machine. Do not place the device on an unsteady base.

Make sure that no objects or liquids enter the Recorder. Do not place vases or similar objects on the DVD Recorder. If liquid spills into it, immediately disconnect the Recorder from the power supply and call Philips for advice.

Keep the DVD Recorder away from domestic heating equipment and other sources of heat, as well as direct sunlight.

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

Make sure children do not place any foreign objects into the openings or the disc tray.



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.

1
2

When a disc is dirty, clean it with a soft cloth. Wipe the disc from the center to the edge in a straight line.

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

Can I use a cleaning disc intended for DVD players?

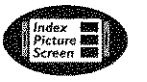
Since the optical unit (laser) of the DVD Recorder operates at a higher power than regular DVD or CD players, these kinds of cleaning CDs may damage the optical unit (laser).
Therefore, refrain from using a cleaning CD!

Special functions of your new DVD Recorder

Your Philips DVD Recorder has special functions that will make day-to-day use of your new DVD Recorder easier for you.

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. Its cable is used to transmit audio and video signals. Along with DV and Hi8 camcorders, some personal computers with digital video outputs can also be connected to this digital input.

This screen provides an overview of the disc. Each index picture represents a recording. At the right-hand side of the screen, a disc pointer graphically displays the duration and position on the disc of the selected recording.



This function can be used to delete commercial interruptions during a film as well as other scenes. The corresponding scenes are marked, then skipped as desired. This is saved on the DVD so any DVD player will also skip these scenes. You must make edits compatible.

MP3 files are highly compressed pieces of music. The amount of data of the original audio material is reduced by 1/10 of the original size using a special process. This enables you to fit up to 10 hours of music on a single CD.
These music CDs can be played using this Recorder.

As a rule, a recording is made at the current position. This is similar to a video tape, e.g. in the middle of the tape. By holding down the **REC/OTR ●** button, the recording will be made at the end of all other recordings. This helps avoid overwriting previous recordings.
New recordings on a DVD+R disc will always be added after the end of all recordings.

Safe Record

The Philips DVD Recorder can play DVDs and CDs. DVDs made using this DVD Recorder can be played in most current (and future) DVD players.

This is a standard from Dolby Laboratories for the transmission of 5.1 channel sound. This acoustical playback system is used to transmit five full channels. In addition, one channel is used exclusively for low frequencies (effects). Speakers are positioned at front left, center, and front right, as well as rear left and right. This is currently the most common system, also used in movie theaters.
This DVD Recorder records each sound in two-channel Dolby Digital on a DVD+RW.

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

Transmission standard for 5.1 channels from Digital Theatre Systems, Inc. It is the second most common after Dolby Digital.

This product incorporates copyright protection technology that is protected by US patent numbers 4631603, 4577216, 4819098, and 4907093, as well as other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is only intended for home use and other pay-per-view applications. Macrovision must provide written authorization for any other use. Changes to the device, reverse engineering, or disassembly is prohibited.

The **GUIDE Plus+® system** provides you with a complete on-screen guide of what's on TV. It also allows you to program your DVD Recorder to record any show you want with just a click on the guide listing.

You simply enter your local zip/postal code during set up and you can see the next 7 days or what's on right now or even what's on in a favorite category like sports or movies.
Select the TV show you want to see or program using your remote control. No more hassle programming your DVD Recorder! The guide information is sent within your TV signal so there's nothing to load or buy; the service is free!

GEMSTAR IS NOT IN ANY WAY LIABLE FOR THE ACCURACY OF THE PROGRAM SCHEDULE INFORMATION PROVIDED BY THE GUIDE PLUS+ SYSTEM.
IN NO EVENT SHALL GEMSTAR BE LIABLE FOR ANY AMOUNTS REPRESENTING LOSS OF PROFITS, LOSS OF BUSINESS, OR INDIRECT, SPECIAL, OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH THE PROVISION OR USE OF ANY INFORMATION, EQUIPMENT, OR SERVICES RELATING TO THE GUIDE PLUS+ SYSTEM.

Simple programming system for DVD Recorders. Simply enter the VCR Plus+ Programming number associated with your television program. This number is located in your television listings magazine.

VCR Plus+, C3, PlusCode, G-LINK, and GUIDE Plus+ are registered trademarks of Gemstar Development Corporation. The VCR Plus+ and GUIDE Plus+ systems were manufactured under license from Gemstar Development Corporation and VCR Index Systems B.V. US patent Nr.: 5,940,073; 6,154,203; 6,236,794; 6,331,877; 4,908,713; 4,751,578; 4,706,121

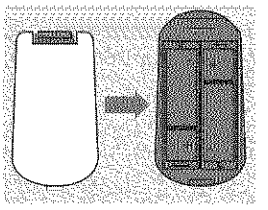
In order to identify your machine for service questions or in the event of theft, enter the serial number here. The serial number (PROD. NO.) is printed on the type plate fixed at the rear of the recorder:

MODEL NO.	DVDR 80/17	**PHILIPS**
PROD. NO.	.....	

2 Connecting the DVD Recorder

Preparing the remote control for operation

The remote control and its batteries are packed separately in the original DVD Recorder packaging. You must install the batteries in the remote control - as described in the paragraph below - before use.



1 Take the remote control and the enclosed batteries (2 AA batteries).

2 Remove the battery compartment lid, insert the batteries, then replace the battery compartment lid. Always install the +/- ends of the batteries as indicated inside the battery compartment.

The remote control is now ready to use.
Its range is approximately 16-32 feet (5 to 10 meters).

Tip

'Correct aiming' of the remote control

In the following sections, you require the remote control for the first time. When using the remote control, always aim the front part of it at the DVD Recorder, not the TV.

Connecting your DVD Recorder to the TV

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

Connect the DVD Recorder **directly** to the TV. Connecting a video cassette Recorder between the DVD Recorder and the TV could result in poor picture quality.

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

'Connecting with Component Video (Y Pb Pr, YUV) / Progressive Scan (Y Pb Pr)
If your TV is equipped with Component Video (Y Pb Pr, YUV) / Progressive Scan (Y Pb Pr) input

'Connecting with S-Video (Y/C)'
If your TV is equipped with a S-Video (SVHS) jack.

'Connecting with a Video (CVBS) cable'
If your TV is equipped with a Video (CVBS) jack.

'Connecting only with the antenna cable'
If your TV has only an Antenna-In jack (no other audio and video in jacks) or you do not wish to use any other cable. The TV's Antenna In jack may be labeled ANT IN, RF IN, 75 ohm, etc. Check your TV instructions for details.

Connecting with a Component Video (Y Pb Pr) cable

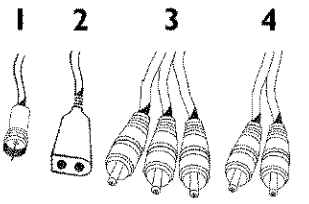
Component Video is the highest quality system for transmitting video by splitting the video signal into the Y (brightness), U and V (red minus brightness, blue minus brightness) components. The signals are sent over separate lines. The plugs for these cables and the corresponding jacks are usually red, green, and blue.

In addition, the signal can be 'interlaced' or use 'progressive scan.'

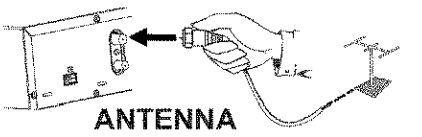
Interlaced
The regular video/TV signal is interlaced, i.e. the even and odd lines are formed as half pictures in an alternate fashion.

Progressive scan
With progressive scan, each picture is structured (approx. 50/60 times per second depending on the TV system) as a complete picture, i.e. the even and odd lines are formed together. Disruptive picture flickering is avoided as is the case with 100 Hz TV devices.

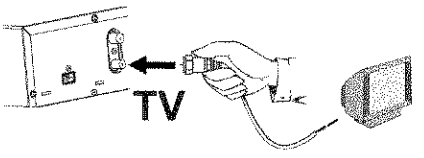
Have the following cables ready:
an antenna cable (1, supplied), a power cable (2, supplied), a Component Video (Y Pb Pr) cable (3, red, green, blue plugs) or a corresponding video-compatible cinch cable, an audio cable (4, red/white plugs).



1 Remove the antenna or cable TV signal from your TV. Insert it into the **ANTENNA IN** jack at the back of the DVD Recorder.

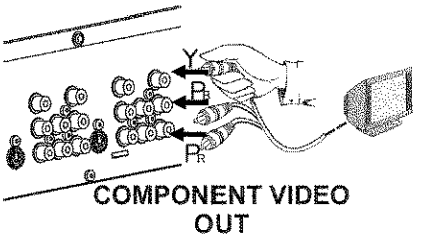


2 Insert one end of the supplied antenna cable into the **TV OUT** jack at the back of the DVD Recorder and the other end into the antenna input jack at the back of the TV.



3 Use the Component Video (Y Pb Pr) cable and connect one end to the red, blue, green **OUT COMPONENT VIDEO** jacks at the back of the DVD Recorder and the other end to the Component Video In jacks of the TV.

4 If your TV set is equipped with a 'progressive scan' jack, please use this jack. (Usually called 'Video In Y Cb Cr'. Please see your TV's instruction manual).

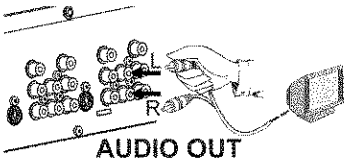


Please note the color order

The colors of the jacks on the DVD Recorder must match those on the TV (red-red/blue-blue/green-green). If they are not matched properly, this could cause the color of the picture to be reversed or there could be no picture at all.

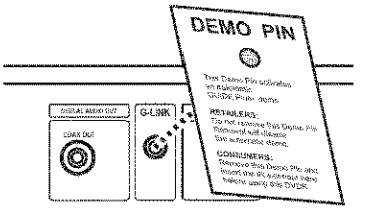
Tip

5 Use an audio cable and plug one end into the **OUT AUDIO LR** jack at the back of the DVD Recorder (next to **OUT COMPONENT VIDEO**) and the other into the red/white Audio In jacks of the TV (usually called Audio in', 'AV in'. Please see your TV's instruction manual).

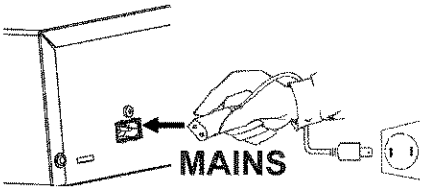


6 Switch on the TV.
If necessary, set the TV to the Component Video channel. See the operating instructions of your TV for details.

7 **Demo Pin**
Your DVD-Recorder is equipped with a Retail Demo Pin inserted in the **G-LINK** jack at the back. On the retail floor with the Demo Pin inserted, the demo about the GUIDE Plus+® system is automatically activated after the automatic channel search. Remove the Demo Pin to disable the Retail Demo feature.



8 Connect the mains jack ~**MAINS** at the back of the DVD Recorder with the power supply using the supplied power cable.
The most important features of the DVD Recorder will appear on the display.
After the initial installation is completed, this function will be switched off. How you switch on this function again, read in the chapter 'User preferences' in the section 'Standby'.



9 Press **STANDBY-ON** ⏻ on the recorder. 'IS TV ONP' will appear on the display.

Switching TV and DVD Recorder to 'Progressive scan'

The factory settings of the DVD Recorder are set to 'Interlaced'. If you selected the 'Progressive scan' connection during installation, you must switch the 'Component Video output' of the DVD Recorder and, if necessary, the 'Component Video input' of the TV to 'Progressive scan'.

Switching the TV

Please select 'Progressive scan' for the Component Video input on the TV. If necessary, see your TV instruction manual.
If your TV is equipped with separate input jacks for Interlaced and Progressive, connect the DVD Recorder to the jack that supports 'Progressive scan'.

Switching the DVD Recorder

1 Disconnect the recorder's power cord.
2 Hold down ▶▶| on the DVD Recorder while reconnecting the power cord. 'PRO' (progressive scan) will appear on the display.
3 If you want to switch back, repeat steps **1** and **2**. 'PRO' (progressive scan) will disappear from the display. The DVD Recorder is switched to 'Interlaced.'

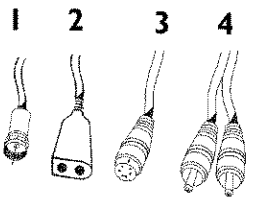
Tip

Then, read the paragraph 'Initial installation' in the chapter 'Installing your DVD Recorder'.

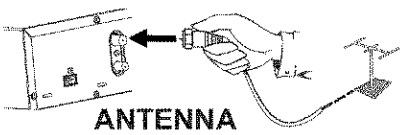
Connecting with a S-Video (Y/C) cable

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

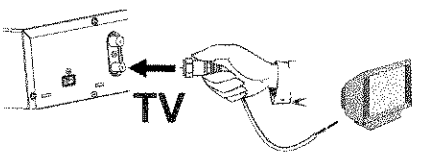
Have the following cables ready:
an antenna cable (1, supplied), a power cable (2, supplied), a S-video (SVHS) cable (3), an audio cable (4, with red/white ends).



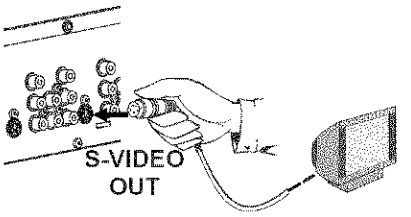
1 Remove the antenna or cable TV signal from your TV. Insert it into the **ANTENNA IN** jack at the back of the DVD Recorder.



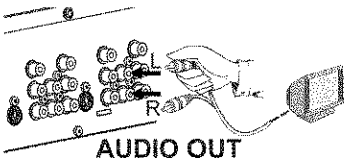
2 Insert one end of the supplied antenna cable into the **TV OUT** jack at the back of the DVD Recorder and the other end into the antenna input jack at the back of the TV.



3 Use a S-Video (SVHS) cable and plug one end into the **S-VIDEO OUT** jack at the back of the DVD Recorder and the other end into the S-Video (SVHS) In jack of the TV (usually called 'S-Video in' or 'SVHS in'. See your TV's instruction manual).

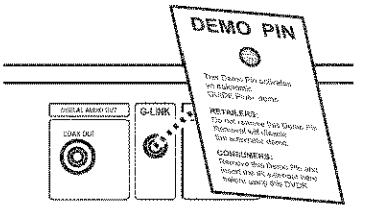


4 Use an audio (cinch) cable and plug one end into the red/white cinch jack **OUT L AUDIO R** at the back of the DVD Recorder (next to **S-VIDEO OUT**) and the other into the corresponding red/white audio input jack of the TV (usually called Audio in', 'AV in'. See your TV's instruction manual).

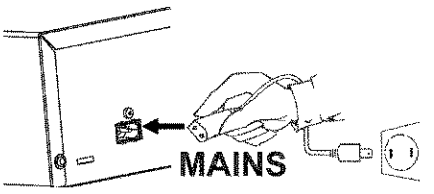


5 Switch on the TV. Then switch the set to the SVHS input jack or select the corresponding channel number. For the channel number, please see your TV's instruction manual.

6 **Demo Pin**
Your DVD-Recorder is equipped with a Retail Demo Pin inserted in the **G-LINK** jack at the back . On the retail floor with the Demo Pin inserted, the demo about the GUIDE Plus+® system is automatically activated after the automatic channel search. Remove the Demo Pin to disable the Retail Demo feature.



7 Connect the mains jack ~ **MAINS** at the back of the DVD Recorder with the power supply using the supplied power cable.
The most important features of the DVD Recorder will appear on the display.
After the initial installation is completed, this function will be switched off. How you switch on this function again, read in the chapter 'User preferences' in the section 'Standby'.



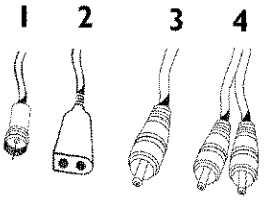
8 Press **STANDBY-ON** ⏻ on the recorder. 'IS TV ON?' will appear on the display.

Then, read the paragraph 'Initial installation' in the chapter 'Installing your DVD Recorder'.

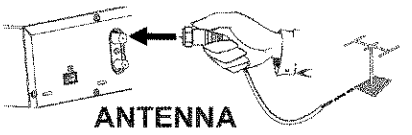
Connecting with Video (CVBS) cable

This cable, usually featuring yellow cinch plugs, is used for transmitting the Composite Video signal (FBAS, CVBS). In this method of transmission the color signal and the brightness signal are transmitted on the same cable. Under certain circumstances, this may lead to problems with the picture, such as 'Moiré' patterns.

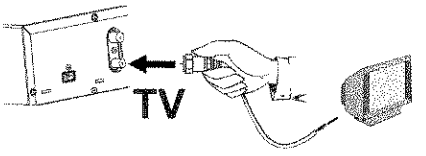
Have the following cables ready:
an antenna cable (1, supplied), a power cable (2, supplied), a video (CVBS) cable (3, with yellow ends), and an audio cable (4 with red/white ends).



1 Remove the antenna or cable TV signal from your TV. Connect it to the **ANTENNA IN** jack at the back of the DVD Recorder.

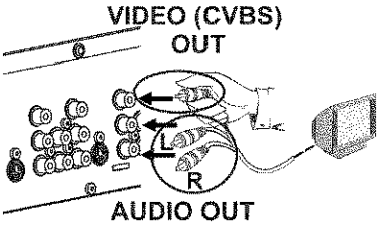


2 Insert one end of the supplied antenna cable into the **TV OUT** jack at the back of the DVD Recorder and the other end into the antenna input jack at the back of the TV.



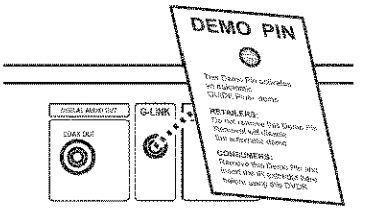
3 Use a video (CVBS) cable and plug one end into the yellow jack **OUT VIDEO (CVBS)** at the back of the DVD Recorder and the other end into the Video In jack (usually yellow) of the TV (usually called Video in or AV in. See your TV's instruction manual).

4 Use an audio (cinch) cable and plug one end into the red/white cinch jack **OUT L AUDIO R** at the back of the DVD Recorder (under to **Video in**) and the other into the corresponding red/white audio input jack of the TV (usually called Audio in', 'AV in'. See your TV's instruction manual).

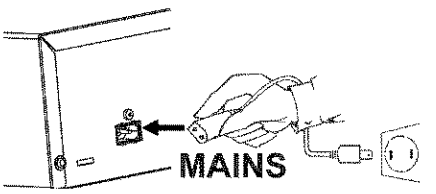


5 Switch on the TV. Then switch the TV to the Video/Audio input jack or select the corresponding channel number. For the channel number, please see your TV's instruction manual.

6 **Demo Pin**
Your DVD-Recorder is equipped with a Retail Demo Pin inserted in the **G-LINK** jack at the back . On the retail floor with the Demo Pin inserted, the demo about the GUIDE Plus+® system is automatically activated after the automatic channel search. Remove the Demo Pin to disable the Retail Demo feature.



7 Connect the mains jack ~ **MAINS** at the back of the DVD Recorder with the power supply using the supplied power cable. The most important features of the DVD Recorder will appear on the display.
After the initial installation is completed, this function will be switched off. How you switch on this function again, read in the chapter 'User preferences' in the section 'Standby'.



8 Press **STANDBY-ON** ⏻ on the recorder. 'IS TV ONP' will appear on the display.

Then, read the paragraph 'Initial installation' in the chapter 'Installing your DVD Recorder'.

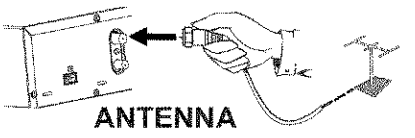
Connecting only with the antenna cable

USE THIS CONNECTION IF YOUR TV ONLY HAS A SINGLE ANTENNA IN JACK AND DOES NOT HAVE ANY AUDIO/VIDEO JACKS. Please observe that you must adjust the TV to the DVD-Recorder (channel 3 or 4).

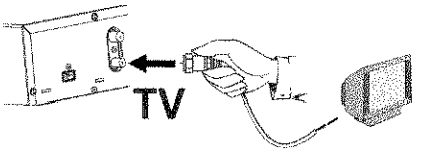
Have the following cables ready:
an antenna cable (1, supplied), and a power cable (2, supplied).

1 Switch off your TV.

2 Remove the antenna or Cable TV signal from the antenna input jack of the TV. Insert it into the **ANTENNA IN** jack at the back of the DVD Recorder.



3 Insert one end of the supplied antenna cable into the **TV OUT** jack at the back of the DVD Recorder and the other end into the antenna input jack at the back of the TV.



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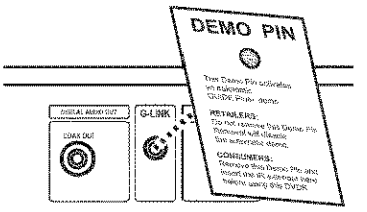
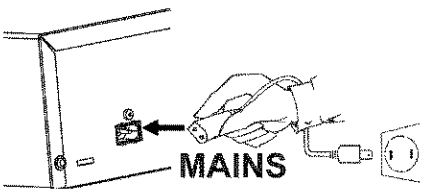


5 Connect the mains jack ~ **MAINS** at the back of the DVD Recorder with the power supply using the supplied power cable.
The most important features of the DVD Recorder will appear on the display.
After the initial installation is completed, this function will be switched off. How you switch on this function again, read in the chapter 'User preferences' in the section 'Standby'.



6 Press **STANDBY-ON** ⏻ on the recorder. 'I5 TV ONP' will appear on the display.

7 Switch on your TV and select the channel used for DVD/VCR playback on your TV. Choose between channel 3 or 4.

How do I switch the Recorder between channel 3 and 4?

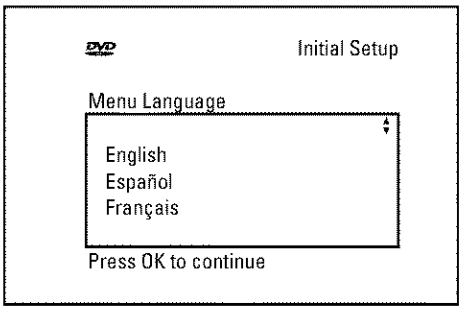
The factory setting is for channel 3. However, if you would like to switch to channel 4, proceed as follows:

1 Hold **4** on the remote control while 'I5 TV ONP' is displayed.
2 'C04' (channel 4) will appear on the display.
3 If you want to switch back to channel 3, hold **3**. 'C03' (channel 3) will appear on the display.
4 After the installation you can switch between the channels only during standby.

8 Switch your TV to the selected channel (channel 3 or 4). Use therefore your TV remote control.
The menu for language selection will appear on the screen.

× I don't see a menu for language selection

✓ Check the cable connections.
✓ Change between channel 3 and 4 on the TV.



9 This TV channel number must be used in the future for DVD Recorder playback.

Then, read the paragraph 'Initial installation' in the chapter 'Installing your DVD Recorder'.

3 Connecting additional devices

You can connect additional devices such as decoders, satellite receivers, camcorders, etc. to the **S-VIDEO IN**, **Video in**, **IN COMPONENT VIDEO** and the **IN L AUDIO R**, **IN AUDIO LR** jacks on the recorder. Switching between jack **S-VIDEO IN** and **Video in** is done automatically. In case both jacks are occupied, the signal at jack **S-VIDEO IN** is given priority.

Can I also connect other devices with 'Progressive scan'?

The **IN COMPONENT VIDEO** jacks are only used for 'interlaced' signals. Signals using progressive scan cannot be processed by the DVD Recorder.

Connecting an additional video recorder

You can also connect a video Recorder to the input jack. Please use the **S-VIDEO IN** jack and the **IN L AUDIO R** jacks for SVHS video recorders.

Please be aware

Most pre-recorded video cassettes and DVDs are copy protected. When you attempt to copy them, the 'COPY PROT' message will appear in the DVD Recorder display.

× **When copying video cassettes 'NO SIGNAL' appears in the DVD Recorder display**

✓ Check whether the cable plugs fit correctly.

✓ If the recording is made from a video recorder, adjust the "tracking" on the video recorder.

✓ In case of bad, non-standard video input signals, the DVD Recorder may not be able to detect the signal.

× **When copying from DVDs or pre-copied video cassettes, the picture is grainy and the brightness fluctuates.**

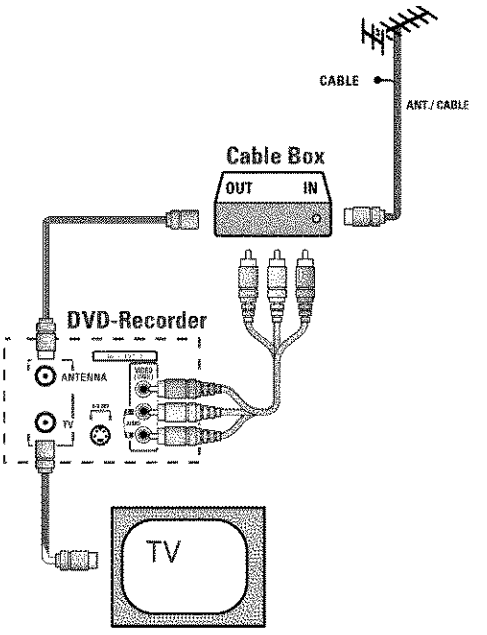
✓ This occurs when you attempt to copy copy-protected DVDs or video cassettes. Although the picture on the TV is OK, the recording is distorted on a DVD+R(W). Copy-protected DVDs and video cassettes cannot be copied without these disruptions.

Connecting a cable box with Cinch- or S-video cable

You can connect a cable box to the **S-VIDEO IN** or **Video in** and the **IN L AUDIO R** jacks on the recorder. Switching between jack **S-VIDEO IN** and **Video in** is done automatically. In case both jacks are occupied, the signal at jack **S-VIDEO IN** is given priority.

The antenna cable should also be connected to the cable box and the DVD-Recorder as shown above.

Connect the DVD-Recorder **directly** with your TV-set (Cable from the output jacks **S-VIDEO OUT** or **OUT VIDEO (CVBS)** directly to the TV set). If there is a video recorder or another device in between, there can be distortions in the TV pictures from the built in 'copy protection system'.

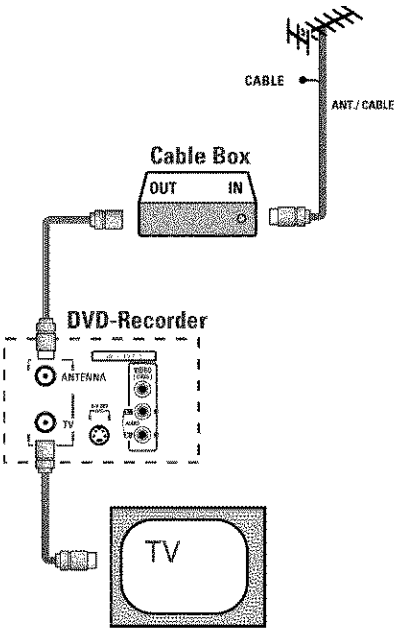


Connecting a Cable Box only with the antenna cable

•) The DVD-Recorder have to be directly connected to the TV set. If there are other devices (video recorder, decoder, satellite receiver,...) in between, there can be distortions in the TV pictures from the built in 'copy protection system'.

•) The Cable Box have to be connected **before** the DVD-Recorder (Cable Box - DVD-Recorder - TV set). On the jack **TV OUT** only the TV have to be connected.

The antenna cable should also be connected to the Cable Box and the DVD-Recorder as shown above.



Connecting a camcorder to the front jacks

The front video and audio jacks can be used to easily connect a camcorder to the DVD Recorder. These jacks are behind the door in the lower right corner of the front panel.

Best Picture Quality

If you are using a Digital Video or Digital 8 camcorder, connect the **DV IN** IN jack of the DVD Recorder to the corresponding DV OUT jack on the camcorder.
When films are transferred, the original recording date and time are stored as DVD subtitles.
During playback, you can display this data on the TV screen by using the '[...]' function (Subtitle).

Very good Picture Quality

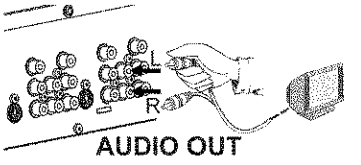
If you are using a Hi8 or S-VHS(C) camcorder, connect the **S-VIDEO** in jack of the DVD Recorder to the corresponding S-video out jack on the camcorder.
You must also connect the **left AUDIO right** in jacks of the DVD Recorder to the audio out jacks on the camcorder.

Good Picture Quality

If your camcorder only uses a video output (Composite Video or CVBS), connect the **VIDEO** input of the DVD Recorder to the corresponding output jack on the camcorder.
You must also connect the **left AUDIO right** in jacks of the DVD Recorder to the audio out jacks on the camcorder.

Connecting audio devices to the analog audio jacks

There two analog audio output jacks **OUT L AUDIO R** (audio signal output left/right) and two audio input jacks **IN L AUDIO R** (audio input left/right) on the back of the DVD Recorder.



These can be used to connect the following devices:
- **A receiver with Dolby Surround Pro Logic**
- **A receiver with two-channel analog stereo**

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

This amplifier jack (input) should only be used for record players without a pre-amplifier. Do **not** use this input jack to connect the DVD Recorder.
This could damage the DVD Recorder or the amplifier.

Connecting audio devices to the digital audio jacks

The back of the DVD Recorder features two digital audio output jacks **OPTICAL AUDIO OUT** for an optical cable and **COAX OUT** for a coaxial cable (cinch cable).

It can be used to connect the following devices:

•) an Audio/Video receiver or an Audio/Video amplifier with a digital multi-channel sound decoder

•) a receiver with two-channel digital stereo (PCM)

Digital multi-channel sound

Digital multi-channel sound provides maximum sound quality. You will need a multi-channel A/V receiver or amplifier that supports at least one of the audio formats of the DVD Recorder (MPEG2, Dolby Digital, and DTS).
Consult the owner's manual of your receiver to find out which audio formats it supports.

?

× A loud distorted sound is coming from my speakers

✓ The receiver does not support the digital audio format of the DVD Recorder. The audio format of the inserted DVD is displayed in the display panel when another language is switched on. Playback using 6-channel digital surround sound is only possible when the receiver has a digital multi-channel sound decoder.

Problem

4 Installing your DVD Recorder

Initial installation

After you have successfully connected the DVD Recorder and other devices to your TV (as described in the previous chapter), this chapter will help you start the initial installation. The DVD Recorder automatically seeks and stores all available TV channels.

Connecting additional devices

If you have connected additional devices (satellite receiver,...) via the antenna cable, switch them on now. The automatic channel search will recognize them and save them.

No antenna connected

If you are only using the DVD Recorder as a playback device or you only have a satellite receiver connected, you still need to perform the initial installation. This is necessary so the basic settings can be saved correctly. After the initial installation is completed once, you can use the DVD Recorder normally.

Tip

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

What is an on-screen menu?

The multi-language on-screen menu takes the mystery out of using your new DVD Recorder. All settings and/or functions are displayed on your TV screen in one of the available languages (English, French, or Spanish).

?

DVD Initial Setup

Menu Language

English
Español
Français

Press OK to continue

2 Confirm with **OK** .

3 Select the desired audio language using **CH-▼** or **▲CH+** .

What is the audio language?

The DVD audio will play in the selected language if it is available. If this language is not available on the DVD, the audio will play in the first language on the DVD.

?

DVD Initial Setup

Audio Language

English
Español
Français
Português
Italiano

Press OK to continue

4 Confirm with **OK** .

5 Select the desired language for the subtitles by pressing **CH-▼** or **▲CH+** .

What is the language of the subtitles?

DVD subtitles will be in the selected language if it is available. If this language is not available, subtitles will be in the first language on the DVD.

?

DVD Initial Setup

Subtitle Language

English
Español
Français
Português
Italiano

Press OK to continue

6 Confirm with **OK** .

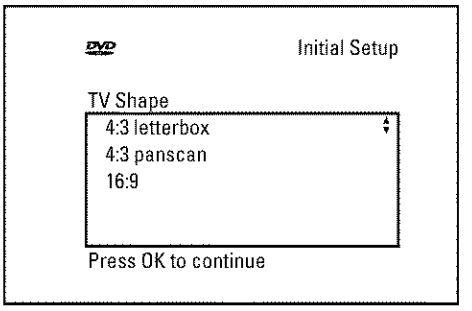
7 Select the desired screen format with **CH-▼** or **▲CH+**. This setting only functions if you have inserted a DVD recorded in this format.

Which screen formats can I choose?

4:3 letterbox for a wide-screen display (theatrical format) with black bars at the top and bottom of the picture.

4:3 panscan for a full-height picture with the sides trimmed to fill you TV screen.

16:9 for wide-screen TV (16:9) aspect ratio



8 Confirm with **OK**.

9 After you connect the antenna (or cable TV, satellite receiver, etc.) to the DVD Recorder, press **OK**.
Make sure the cable TV signal is connected securely to the Antenna jack on the rear of the DVD Recorder.
The automatic TV channel search starts. 'WAIT' will appear on the display.

× During the channel search, if the DVD Recorder does not find any TV channels:

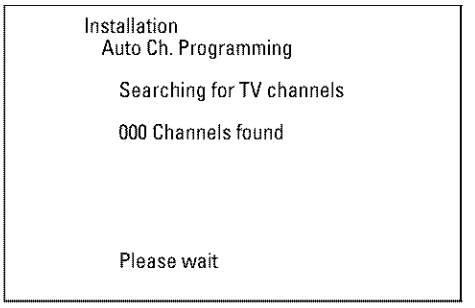
✓ Select another channel on the TV. Do you see that channel on the TV screen?
If not, check the cable connection of the antenna (antenna jack) between the DVD Recorder and TV.

✓ Please have patience.
The DVD Recorder searches the entire frequency range in order to find and save the largest possible number of TV channels.

✓ If no antenna is connected, complete the basic settings and then, if desired, start the automatic channel search (see section 'Automatic TV channel search').

× The DVD Recorder finds very few/no channels during the search.

✓ It is possible that the automatic switching between antenna/cable does not properly detect your TV signal. Read the section about how to switch manually.



10 Wait until all available TV channels have been found. This can take several minutes.

11 As soon as the automatic TV channel search is completed, '***Auto ch. search complete***' will appear on the TV screen along with the number of channels found.

12 To remove the menus, press the **SYSTEM-MENU** button on the Recorder's remote control.

Further settings relate to the GUIDE Plus+® system. This offers a free interactive guide to the TV programs available in your area.

To install this system, please read section 'The GUIDE Plus+® system'.

Tuner mode

Your DVD-Recorder is equipped with a so called Tuner Mode. With the button **MONITOR** you can switch between playback from the disc or the Picture from the internal Tuner (TV Channels).

If a Cable Box is connected to the **Video in** or **S-VIDEO IN** jacks and installed as described in the chapter 'Setting up the GUIDE Plus+® system' you can switch only between the playback and the TV Channels from the Cable Box. The internal Tuner is switched off.

Attention!
If the Cable Box were disconnected and the setting in the GUIDE Plus+® system remains unchanged (Cable Box: Yes) you are not able to select the TV channels with the number buttons **0..9** .
If you do not use the Cable Box anymore, you have to change the setting in the GUIDE Plus+® system settings (Cable Box: No).

Automatic TV channel search

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

ATTENTION !
If data from the GUIDE Plus+® system is available, you can not select this function. If you want to start this procedure again, repeat the basic settings for the GUIDE Plus+® Sytem. Read therefore the Chapter 'Set up the GUIDE Plus+® system'.

1 Turn on your TV. Select the channel number for the DVD Recorder (channel 3 or 4 or the Audio/Video In channel).

2 Turn on the DVD Recorder by pressing **STANDBY-ON** ⏻ .

3 Press **SYSTEM-MENU** on the remote control. The menu bar will appear at the top of the TV screen.

4 Select '🔧' using ◄ or ► .

5 Press **CH-▼** continuously to select the line '***Installation***'. (It is on the second screen of menus.) Confirm with ► .

6 Select line '***Auto Ch. Programming***' using **CH-▼** or **▲CH+** .

7 Press ► . The automatic TV channel search starts. This allows the DVD Recorder to save all available TV channels. This procedure may take several minutes.

8
9

When the channel search is completed, '***Auto ch. search complete***' will appear on the TV screen.

Press **SYSTEM-MENU** repeatedly to remove all the menus from the screen.

× Very few TV channels were found

✓ During 'Automatic channel search' the DVD Recorder detects whether an antenna or a cable TV signal is connected. If you have connected a cable TV signal but found very few TV channels, you must search the channels manually.

1 To do so, select '***Cable/Antenna***' instead of line '***Auto Ch. Programming***' in step **6** and confirm with ▶ .

2 If you select '***Cable***', channels 1-125 will be available.
If you select '***Anten.***', channels 2-69 will be available.
Select your type of connection by pressing ▶ repeatedly:
'***Anten.***', '***Cable***' or '***Auto.***' automatically detects which one you have.

3 Confirm the setting with **OK** .

4 Press **SYSTEM-MENU** to go to the next menu. Press **OK** to start channel search as prompted by the on-screen message. When the channel search is complete, press **SYSTEM-MENU** repeatedly to remove all the menus.

Problem

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

Adding and deleting TV channels manually

With this function you can delete/switch off TV channels on which reception is not possible. They will be skipped when the ▲**CH+** and **CH-**▼ buttons are selected.

ATTENTION !
If data from the GUIDE Plus+® system is available, the allocation (TV channel name to the TV channel) will be done from the GUIDE Plus+® system automatically. Therefore you cannot select this function.

×I can not select the line '*Add/Delete Channels*'
To switch the channels on or to change the allocation manually proceed as follows:

1 Press **GUIDE/TV** . The '***LISTINGS***' screen appears.
2 Press repeatedly ▲**CH+** to select he menu bar at the top of the screen.
3 Select with ◄ or ► '***SETUP***'.
4 Select with **CH-**▼ or ▲**CH+** '***Change channel display***' and confirm with **OK** .
5 Select with **CH-**▼ , ▲**CH+** the TV-Station. With ▶▶| , |◀◀ you can switch one page for or back.
6 Enter in the right colum the TV channel with the number buttons **0..9** . You can switch the channel on or off with the green function button.
7 End with **GUIDE/TV** .
8 Switch off the Recorder with **STANDBY** ⏻ .
The new settings will be taken if the Recorder is switched on again.

Problem

1 Turn on your TV. If required, select the TV's Audio/Video In (or channel 3 or 4).

2 Press **STANDBY** ⏻ to turn on the DVD Recorder. Press the **SYSTEM-MENU** button on the remote control. The menu bar will appear at the top of the screen.

3 Select '🔧' using ◄ or ► .

4 Press **CH-**▼ repeatedly to select '***Installation***' and then press ► .

5 Select line '***Add/Delete Channels***' using **CH-**▼ or ▲**CH+** the press ► .

6 Using **CH-**▼ or ▲**CH+** select the TV channel that you want to delete or add.

7 Press ► or ◄ to choose '***Add***' or '***Delete***'.

8 Repeat steps **6** to **7** until you have added/deleted all the TV channels you want.

Installation
Add/Delete Channels
...
• Channel 001 Add
Channel 002 Add
Channel 003 Delete
Channel 004 Delete
Channel 005 Delete
Channel 006 Delete
...
To exit press
SYSTEM MENU

9 To save your channel selections, press **OK** .

10 To remove the menus, press **SYSTEM-MENU** repeatedly.

Setting the language

You can select the language for subtitles and audio for DVD playback. Please observe that with some DVDs, you can change the audio language and/or subtitle language only via the DVD disc menu.
Moreover, when recording the sound of a TV channel, you can switch between stereo and an additional language (SAP - Secondary Audio Program). See the following section on 'Switching audio recording (stereo, SAP)'.
Plus, you have the option of setting one of the displayed languages for the recorder's on-screen menu. However, the DVD Recorder will only display text in English, regardless of this setting.

1 Turn on your TV. If required, select the channel number for the DVD Recorder (channel 3 or 4).

2 Turn on the DVD Recorder by pressing **STANDBY-ON** ⏻ .

3 Press **SYSTEM-MENU** on the remote control. The menu bar will appear.

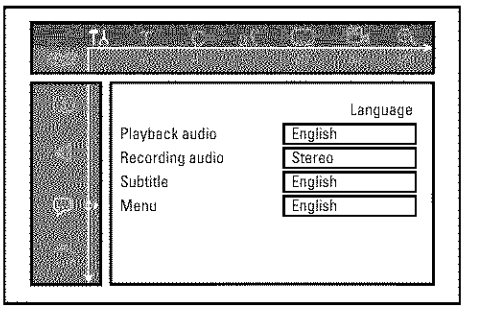
4 Select '🔧' using ◄ or ► .

5 Select the line '***Language***' using **CH-▼** or **▲CH+** and confirm with ► .

6 Select the corresponding line and confirm with ► .

Which settings can I choose?
'Playback audio' : language of the playback (audio language)
'Recording audio' : Type of audio recording '***Stereo***' or '***SAP***'
'Subtitle' : Subtitle language
'Menu': Language of the OSD menu

Tip



7 Select the corresponding setting with **CH-▼** or **▲CH+** and confirm with **OK** .

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

Switching audio recording (Stereo, SAP)

Some TV programs broadcast additional audio (SAP - Secondary Audio Program). In most cases this means an additional language is available. For example, if a program is available in English and Spanish, Spanish can be broadcast as the additional audio program (SAP).
To record TV programs in stereo or SAP, you can select Stereo or SAP as the default setting. This setting does not become active until the sound of a TV program is transmitted in Stereo or SAP.
When you playback the recording, you can playback the sound only in the setting you selected for recording (a recording in SAP can be played back only in SAP).

1 Switch on the TV. If required, select the channel number for the DVD Recorder (channel 3 or 4).

2 Turn on the DVD Recorder by pressing **STANDBY-ON** ⏻ .

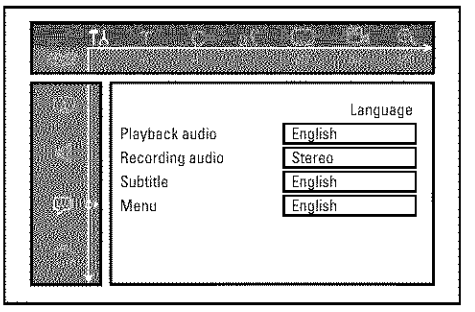
3 Press **SYSTEM-MENU** on the remote control. The menu bar will appear.

4 Select '🔧' using ◄ or ► .

5 Select the line '***Language***' using **CH-▼** or **▲CH+** and confirm with ► .

6 Select line '***Recording audio***' and confirm with ► .

7 Select '***Stereo***' or '***SAP***' using **CH-▼** or **▲CH+** and confirm with **OK** .



A TV program is only available in '*Stereo*' but my setting is '*SAP*'?

If the setting for '***Recording audio***' is '***SAP***' but the TV channel broadcasts only in stereo during recording, the recording will be done in stereo.

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

Setting the time/date automatically

This function uses the information sent via the local PBS channel to automatically set the time/date. For this reason, you must enter the PBS channel that sends this additional information. When the DVD Recorder chooses a wrong PBS channel or the displayed time/date is wrong, you must manually set the date/time (see section 'Manually setting the time & date').

Attention!
If data from the GUIDE PLus+® system were loaded, you can not change the clock/date because this information was taken from the GUIDE Plus+® system. Therefore you can not select this function.

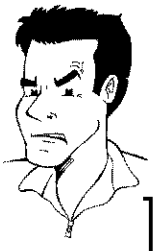
1 Press **SYSTEM-MENU** on the remote control. The menu bar will appear.

2 Select '⚙' using ◄ or ► .

3 Select line '***Installation***' using **CH-▼** or **▲CH+** and confirm with ► .

4 Select line '***Time/Date***' using **CH-▼** or **▲CH+** and confirm with ► .

5 Select '***Automatic***' with **CH-▼** or **▲CH+** and confirm with ► .



×'*Not allowed*' will appear on the TV screen
✓ The time/date will automatically be taken from the EPG information. Therefore you can not set the time/date manually.

Problem

6 Select the corresponding line with **CH-▼** or **▲CH+** .

7 Select the channel which sends the time/date information in the line '***PBS Channel***' and confirm with **OK** . The DVD Recorder will check whether or not the information transfer is possible.

×'*Clock not set, check channel*' will appear on the TV screen
✓ No time/date data can be received from this TV channel. Select a different channel or '***Auto.***' in line '***PBS Channel***'.

Problem

Time/Date
Automatic

PBS Channel	Auto.
Daylight Saving	Off
Time Zone	Auto.

To exit press
SYSTEM MENU

8 Select one of the following settings in line '***Daylight Saving***':
'***On***': The time set corresponds to summer time (summer time activated)
'***Off***': The time set corresponds to the winter time (summer time is off)

9 In the line '***Time Zone***', select your time zone if the PBS channel entered was for a different time zone. This is the only way to set the time correctly, or, if necessary, to correct it.
If you want to use the time zone of the PBS channel, select '***Auto.***'.

10 Confirm the changes with **OK** .

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

The time and date are automatically transferred from the selected 'PBS channel' after the Recorder is shut off.

Manually setting the time & date

If the time is incorrect, this could be due to a weak or disrupted TV signal. If this is the case, switch off the automatic function.

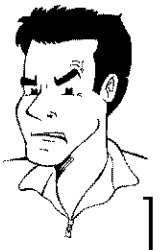
Attention!
If data from the GUIDE PLus+® system were loaded, you can not change the clock/date because this information was taken from the GUIDE Plus+® system. Therefore you can not select this function.

1 Press **SYSTEM-MENU** on the remote control. The menu bar will appear.

2 Select '🔧' using ◄ or ► .

3 Select line '***Installation***' using **CH-▼** or **▲CH+** and confirm with ► .

4 Select line '***Time/Date***' using **CH-▼** or **▲CH+** and confirm with ► .



Problem

× '*Not allowed*' will appear on the TV screen
✓ The time/date will automatically be taken from the EPG information. Therefore you can not set the time/date manually.

5 Select '***Manual***' with **CH-▼** or **▲CH+** .

6 Confirm with **OK** .

7 Change the time in line '***Time***' using the number buttons **0..9** on your remote control.

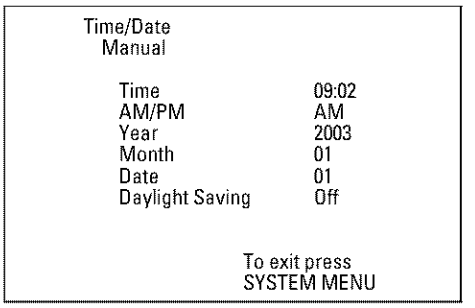
8 Check '***AM/PM***', '***Year***', '***Month***', and '***Date***' in the same way.
To select between the fields, use **CH-▼** or **▲CH+** .
Change the information with ◄ , ► or the number buttons **0..9** .

9 Select one of the following settings in line '***Daylight Saving***':
'***On***': The time set corresponds to the summer time (summer time is on)
'***Off***': The time set corresponds to the winter time (summer time is off)

10 When all settings are correct, confirm with **OK** .

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

If the setting has been confirmed with **OK** the automatic system is disabled.



5 The GUIDE Plus+® system

ENGLISH

General information

Your DVD Recorder is equipped with the GUIDE Plus+® system. The GUIDE Plus+® system offers a free interactive electronic program guide that lists all the TV programs available in your area. You can also use the GUIDE Plus+® system to program your DVD Recorder to record your favorite shows.

Press **GUIDE/TV** to see a summary of all the TV programs currently being shown on the various TV channels. You can select either all the shows at a particular time or sorted according to category.

For the GUIDE Plus+® system to operate correctly, the necessary data has to be collected. The DVD Recorder may take up to 24 hours to do this.
Please note the following.
•) All the TV channels must already have been installed.
•) The TV channel which transmits the GUIDE Plus+® system information must not be deleted from the channel list.
•) The time and date must have been set
•) The antenna/cable network must be connected; it must be possible to receive TV channels.
•) The DVD Recorder must be connected to the mains
•) The DVD Recorder must be switched to standby with the **STANDBY** ⏻ button.
•) The Demo Pin on the back must be removed (jack **G-LINK**)
•) If you have connected a cable box it must be switched on.

Setting up the GUIDE Plus+® system

Below you will find out how to set up the GUIDE Plus+® system to suit your own particular needs and how to install a cable box if you have one.
If the GUIDE Plus+® system has not yet been set up, go directly to step **4** .

1

Switch on the TV. If required, select the channel number for the DVD Recorder (channel 3 or 4 or the Audio/Video In channel).

2

Press the **GUIDE/TV** button on the remote control.
The '***LISTINGS***' screen will appear

× A Set-up screen will appear

✓ The GUIDE Plus+® system is not completely installed, or the installation was aborted. Chose from the following options and follow the instructions on the screen:

'Set up GUIDE now': Installation of the GUIDE Plus+® system

'Set up GUIDE later': If you choose this option the 'reminder screen' will appear every time you switch on the DVD Recorder.

'Don't remind me again': Select this option if you do not want to set up the GUIDE Plus+® system now. Please note, that without a complete installation of the GUIDE Plus+® system it is not possible to make a programmed recording.

Problem

3 Press ▲**CH+** . Select then '***SETUP***' with the ▶ or ◀ button.
Use **CH-▼** , ▲**CH+** to select '***Change system settings***'.
Confirm with **OK** .

4 Use **CH-▼** , ▲**CH+** to select '***No, repeat setup process***'.

5 Confirm with **OK** .

6 Use ▲**CH+** , **CH-▼** to select your country.

7 Confirm with **OK** .

Enter the postal/zip code where the DVD Recorder is being set up.

Why do I have to enter the postal/zip code?

For the GUIDE Plus+® system to operate correctly, it needs to know its current location and the TV channels available at that location. The DVD Recorder works this out automatically on the basis of the postal/zip code and country.

8 Confirm with **OK** .

9 Does your TV have an antenna or a cable connection?
'***Cable service***' '***No***': Antenna
'***Cable service***' '***Yes***': Cable connection

Was is the difference between cable and antenna?

The difference is that they have different channel line up's. In the antenna setting, only channels from 2 to 69 can be entered. In the cable setting, however, channels 1 to 125 can be entered.

10 Confirm with **OK** .
If you selected '***Cable service***' '***No***', there is nothing else you need to do here. Read on in the section entitled 'Finalize set-up'.
Otherwise, you should continue here.

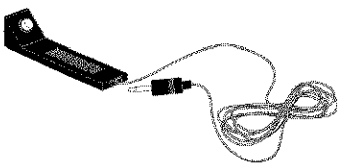
11 Did you connect an external cable box to your DVD Recorder?
'***Yes***': External cable box
'***No***': Connection to a cable network.

12 Confirm with **OK** .
If you selected '***No***', there is nothing else you need to do here. Read on in the section entitled 'Finalize set-up'.
Otherwise, you should continue here.

13 If you connected the cable box to the DVD Recorder only via the antenna cable, select the channel number on which the cable box is transmitting (usually channel 3).
If the cable box is connected via the Video/Audio or S-Video jack, select the relevant input jack of the DVD Recorder on the screen.
An incorrect setting here may lead to poor TV reception.

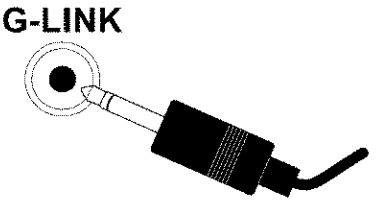
14 Confirm with **OK** .

Connecting the IR Blaster

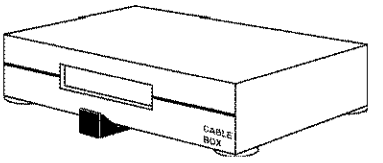


The cable box is controlled via the DVD Recorder with the IR Blaster (supplied). This means you can record TV shows that are received only through the cable box.
Connection of the G-LINK cable enables the GUIDE Plus+® system to show the correct guide listing.

1 Connect the IR-Blaster to the **G-LINK** jack at the back of your DVD Recorder.



2 Place the IR Blaster in front of the cable box so that the control signal (IR signal) can be transmitted and received by the cable box without interference.



How do I find the right position?

If the position of the remote (IR) receiver is indicated on your cable box (IR, remote sensor, or the like), place the IR-Blaster about one (1) inch in front of it.

If the position is not indicated, proceed as follows:

1 Switch off the cable box.
2 Point the remote control at the front of the cable box.
3 Move the remote control slowly along the front while repeatedly pressing the on/off button.
4 When the cable box switches on, you've found the receiver.
5 Position the IR Blaster about one (1) inch away

Setting up the cable box

For the cable box to be correctly identified it must be connected as described in the previous section.

3 Switch the cable box on and select channel number 02 on the cable box.

4 Select your type/brand from the list shown. If you scroll down with **CH-▼** , you will see further brands. If your type/brand is not included in the list, select '***not listed***'.

5 Confirm with **OK** . Read the information on the screen carefully.

6 Confirm with **OK** . The DVD Recorder will now attempt to use the G-LINK connection to select channel number 09 on the cable box.

7 Has the cable box been switched to channel 09?
If so, select '***Yes***'.
If not, select '***No***'.

× **My cable box has not switched to the other channel number**

1 Check whether the cable box is connected and switched on.

2 Check the connection and position of the IR Blaster.

3 If the connection is OK, select: '***test this code again***' for a new attempt.

4 Confirm with **OK** on the remote control.

5 For a new code, select '***No***'.

6 Confirm with **OK** on the remote control.

× **My cable box is not displaying the channel number**

✓ On your TV set, select the channel number of the cable box and check the setting on the screen of the TV.

Problem

Finalize set-up

1 Check the settings shown on the screen. If the settings are not correct, repeat the set-up procedure by selecting '***No, repeat setup process***'. Otherwise, select '***Yes, end setup process***'.

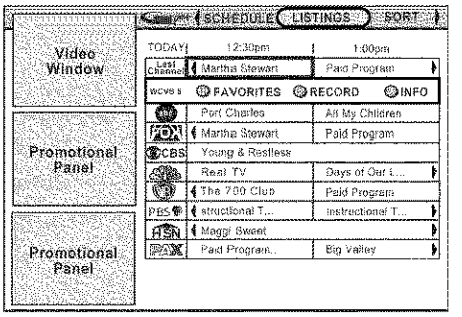
2 Confirm with **OK** .
You will now see a screen with useful information of the GUIDE Plus+® system.

3 Confirm with **OK** .
You will now see a message confirming the completion of the GUIDE Plus+® system set-up process.

4 Confirm with **OK** . This completes the set-up process for the GUIDE Plus+® system. The informations will be available within the next 24 hours.

The GUIDE Plus+® system

General



The GUIDE Plus+® system is a free on-screen listing for all the TV channels in your area. You can also use it to control a cable box.

The GUIDE Plus+® system features five screen components:
•) The video window
•) Program information
•) A line of available OSD menus
•) The channel guide
•) Advertising information (Promotional Panel)

Using the Guide Plus+® system

Starting the GUIDE Plus+® system:
Press **GUIDE/TV** on the remote control.

Closing the GUIDE Plus+® system:
•) Select a program and press the **OK** button to leave the GUIDE Plus+® system and view the program you selected.
•) Press **GUIDE/TV** on the remote control to leave the GUIDE Plus+® system and view the program in the video window.
•) Press **CLEAR** to leave the GUIDE Plus+® system and continue viewing the program you were viewing before you started the GUIDE Plus+® system.

Using the buttons on the front
Starting the GUIDE Plus+® system: GUIDE button.
Closing the GUIDE Plus+® system: GUIDE button.
Confirming the functions (OK button): ► button.
Green function button: RECORD button.
Cursor buttons: UP , DOWN , LEFT , RIGHT buttons.

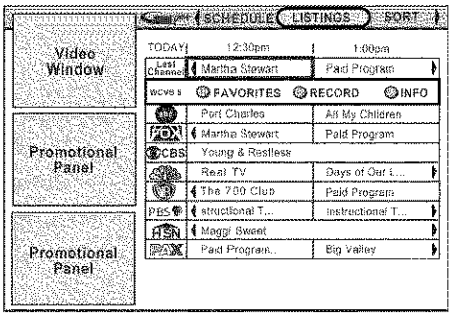
Navigating the GUIDE Plus+® system

If you press **GUIDE/TV** , the main menu will appear. Press **▲CH+** and then you can press ◄ or ► to select from the following:
'*LISTINGS*': Program guide
'*SORT*': TV shows sorted by category (movies, sport, etc.)
'*PROMOTIONS*': Information on GUIDE Plus® system, instructions and advertisements.
'*SETUP*': For changing the basic settings. For further information, see chapter 'Set up the GUIDE Plus+® system'.
'*MESSAGES*': Messages to the user
'*SCHEDULE*': Scheduled (pre-programmed) recordings

Function buttons
If GUIDE Plus+® system information has been loaded, you can perform various actions in the GUIDE Plus+® system screens.
There are two color buttons (blue and green), the actions of which depend on the respective menu displayed. Always check before pressing a button.
If no color buttons are displayed, pressing them will have no effect.

INFO button
An **i** button is also available. If additional information is displayed, you can use this button to enlarge the relevant area.
In some cases, this button can also be used to scroll through pages of information.

The '*LISTINGS*' screen



This list appears when you press the **GUIDE/TV** button. You can view the listing for all the TV channels from today to the same day next week.

1 Press **GUIDE/TV** . The '***LISTINGS***' screen will appear.

× The '*LISTINGS*' screen appears but is empty
✓ Either the antenna is not connected or GUIDE Plus+® system data is not yet available. The DVD Recorder needs some time to collect this data. Leave it switched off during this period (button **STANDBY** ⏻). If you have connected a cable box, it must be switched on.

Problem

2 Select the corresponding TV channel with **CH-▼** or **▲CH+** . You can also use the number buttons **0..9** to select a TV channel directly.
You can use the ▶▶| and |◀◀ buttons to scroll a page at a time.

3 Use the ◀ or ▶ button to select the show you want.

4 In the top left of the screen you will see a video picture of the TV channel you have just selected.

Locking the picture of the TV channel in the top left corner

As a rule, the video picture here changes when you select different channels.
If you prefer to view just one TV channel here you can lock this window:

'**Lock** ': You will only ever see the video picture of the TV channel you selected before you started the GUIDE Plus+® system.

'**Unlock**': You will see the video picture of the TV channel you have just selected.

Select the TV channel and select with ◀ the channel logo.
Toggle between Lock and Unlock by pressing the blue function button.

Tip

5 Press **OK** to confirm your selection. The guide will disappear and you can now view the TV show you have selected.

How do I cancel?
Press **CLEAR** instead of **OK**. The guide will disappear and you will be able to view the show you selected before you started the GUIDE Plus+® system.

Tip

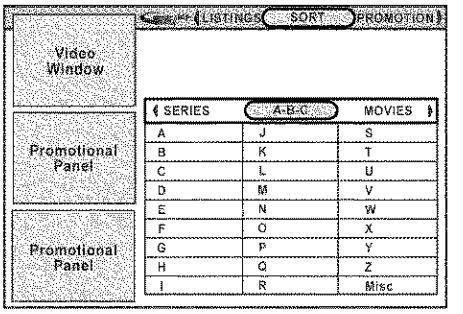
Function buttons in the '*LISTINGS*' screen

You can use the color buttons on the remote control to select the following:

'*FAVORITE*' (blue function button):
The highlighted TV show will be stored together with its start time in a list.

'*RECORD*' (green function button):
The highlighted show will be programmed for recording.

The '*SORT*' screen



This menu allows you to access show listings organized by category. This is an easier way of finding the shows you want to watch.
Make your selection from a major category (Alphabetical, Movies, Sports, Children's, Series, etc.) and a minor category (Adventure, Comedy, Drama, etc.)

Colors of the categories:
Green-Sport,
Purple-Movies,
Blue-Children's,
Teal-Others,
Yellow-Selected show
The sorting service gives you show listings for the next 7 days.

1 Press **CH-▼**

2 Select the category with **◄**, **►**.
Confirm with **CH-▼**. Select the minor category with **CH-▼**, **▲CH+**, **◄**, **►**.

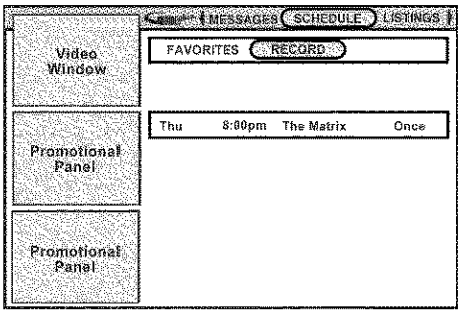
3 Confirm with **OK**.
Use the **CH-▼** and **▲CH+** buttons to scroll through the shows.

Function buttons in the '*SORT*' screen

If you have highlighted a show you can use the colored buttons to perform the following actions:

set to record green function button or
set as favorite blue function button.

The '*SCHEDULE*' screen



This menu displays the shows that are set to record or set as favorite.

The following information is also displayed for each scheduled recording:
'Thu': Day of the week (e.g.: Thursday)
'8:00pm': Start time
'The Matrix': Title of the show
'Once': Frequency of the recording. ('Once'... one time/ 'Regulary'... every time the show is available / 'Weekly'...every week/'off'... switched off for the recording.

1 Press **CH-▼** . Select with ◄ , ► '*FAVORITE*' or '*RECORD*'.

2 Select the event you want to change with **CH-▼** , **▲CH+** .

Change Start/End time
Press the **OK** button.
Change the recording quality
Press the **REC MODE** button.
Delete an event
Press the blue function button.
Program a timer
Press the green function button in the '*FAVORITE/RECORD*' line.

Tip

The '*MESSAGES*' screen

Messages to the user are stored here.
If a message has been received but has not yet been read, a closed yellow envelope appears in the 'video window'.
Messages are automatically deleted when the message's "lifetime" expires (60 days) unless they have already been deleted with the green action button.
Moreover, the GUIDE Plus+® system ID number is displayed at the end of the list. This number is always visible and cannot be deleted.

Colors in this listing:
Teal: All unread messages
Grey: All read messages
Yellow: Selected message

Function buttons in the '*MESSAGES*' screen

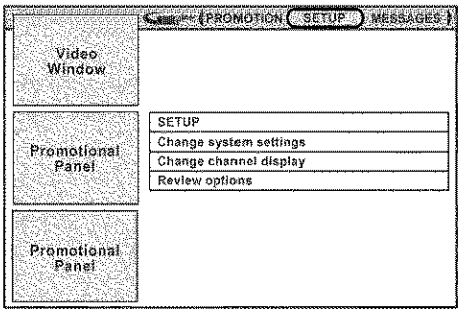
Green action button: Deletes the message
OK button: Opens an info box

The '*PROMOTIONS*' screen

Here you can retrieve information on various products or the GUIDE Plus+® system. Press the **i** button to view detailed descriptions of the products.

Colors in this menu:
Teal: Promotion titles or information
Yellow: Selected promotion/information

The '*SETUP*' screen



The basic settings of the GUIDE Plus+® system are automatically stored after the initial set-up has been completed. You can change these basic settings here.
Choose the function with **CH-▼** or **▲CH+** and confirm with **OK**.

'*Change system settings*'

Here you can change the basic settings. Choose with **CH-▼** or **▲CH+** the appropriate answer:

'Yes, everything is correct'
All settings are correct. Nothing should be changed. End with **OK**. Read the information on the screen.
Leave the GUIDE Plus+® system with **OK**.

'Yes, but my channel lineup is incorrect'
The basic settings are correct (Zip/Postal code, cable box,...) but there were more than one channel line ups recognized.

1 Confirm with **OK**.

2 Choose with **CH-▼** or **▲CH+** the channel line up which fits to your location. If necessary ask your Cable TV provider.
After the confirmation with **OK** the TV channels were automatically adapted.

3 If no channel line up match that from your location, select '***No Match***'. After the confirmation with **OK** you get automatically the '***Change channel display***' screen. Please follow the description in the next chapter.

'No, repeat setup process'
After the confirmation with **OK** you will start the setup process of the GUIDE Plus+® system again. Please note that after the installation is complete it can take up to 24 hours to load the actual data.

'*Change channel display*'

Here you can change the order of the TV channels for the '***LISTINGS***' screen. Moreover, you can assign the channel numbers to the TV stations and switch them on or off.

1 Press **OK** .
A TV station is displayed in two columns.

2 Use the **CH-▼** and **▲CH+** buttons to select the TV station you want to modify. Use the ◄ and ► buttons to switch between tiles.

Left column
The TV station logos and names are shown here.

Rearrange channel order for the '*LISTINGS*' screen
Use the green button or the blue button to reposition the channel.
You can use the number buttons **0..9** on the remote control to select a specific position directly.
In the '***LISTINGS***' screen only switched on channels appears.

Tip

right column
The state of the channels and the channel numbers are displayed here. If a TV station can only be received via an external cable box, select the jack to which the cable box is connected and the channel number of the station on the cable box. If you have connected a cable box, enter the channel number of the TV station that you would normally enter for this station on the cable box.

Please note that if you have changed TV stations it can take up to 24 hours to get the actual data,

3 Use the number buttons **0..9** to enter the channel number of the TV station.You can only enter valid cannel numbers.

Switching the TV station on and off
Use the green action button to toggle between displaying ('ON') and hiding ('OFF') the TV station in the listing and for the selection with **CH-▼** , **▲CH+** .

How do I cancel?
You can cancel by pressing the blue action button.

Tip

'*Review options*'

Here you can choose with **CH-▼** or **▲CH+** between 'Auto display' 'On' or 'Off'.
When 'On' is selected, the GUIDE Plus+® system screen appears every time the DVD Recorder is switched on with the **STANDBY** ⏻ button.
When 'Off' is selected, you will have to press the button **GUIDE/TV** to access the GUIDE Plus+® system.

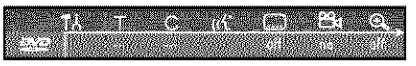
6 Information on the TV screen

You can check/change many functions and settings of your DVD Recorder via the system menu bar. The menu bar cannot be displayed during recording.

Menu bar icons

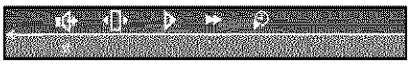
The **SYSTEM-MENU** button is used to call up the menu bar (main menu) and to close it. The ◀ and ▶ buttons are used to select the corresponding function. The **CH-▼** button confirms the function and either leads you to an additional menu or executes the function.
Depending on the disc inserted, some functions may not be available.

Menu bar 1



	User preferences
T	**Current Title/Track**
C	**Current Chapter/Index**
	Audio Language
	Subtitle Language
	Camera Angle
	Zoom

Menu bar 2



While menu bar 1 is being displayed, you can press ▶ repeatedly to display menu bar 2.

	Sound
	Picture by Picture
	Slow motion
▶▶	**Fast motion**
	Search with time entry

Field for temporary messages

There is a field in the top left corner of the menu bar which displays temporary information regarding different operating functions. This information appears briefly on the screen when certain disc functions are activated.

shuffle	**Shuffle**: Shuffle tracks
scan	**Scan**: Play introduction to each track
repeat	**Repeat entire disc**

title	Repeat current title
track	Repeat current track
chapter	Repeat current chapter
A	Repeat A until end
A-B	Repeat A to B
	Camera Angle
locked	Child lock on
resume	Resume
	Action prohibited

Status box

The status box displays the current status of the DVD Recorder and the type of disc inserted. This display can be turned off.

Disc type icons

RW	DVD+RW
RW	DVD+R
DVD	DVD-Video
VCD	Video-CD
no disc	No disc
error	Disc error

Disc status icons

rec	Recording
stop	Stop
play	Playing
pause	Pause play
pause	Pause record
8x	Fast forward (x8)
8x	Fast reverse (x8)
slow	Slow motion

Tuner info box

This box appears in the bottom left corner of the TV screen. It displays the current antenna signal, the TV channel, and the channel name of the program you just selected.

Y	**Current channel / selected device**
Yx	**No Signal** TV channel is not available or reception to too weak / Device is not connected or is turned off
Y🔒	**Copy-protected signal**

Timer info box

This box is located above the tuner info box. When a recording is programmed (timer), it shows the time symbol and the start time or the date of the first programmed recording.
When no timer is programmed, the current time will be displayed.
This box is not displayed during disc playback or recording. However, you can access it during an OTR recording by pressing **SYSTEM-MENU** .

🕘!	**Timer set for day shown or time shown (if set for today).**
🕘⇥	**OTR recording will run until displayed stop time**
🕘	**Current time** No recording (timer) programmed

7 Playback

General information regarding playback

The DVD Recorder can be used with the following systems:
•) DVD Video
•) Video CD or Super Video CD
•) DVD+RW
•) DVD+R
•) DVD-RW (video mode, finalized)
•) DVD-R
•) CD-R
•) CD-RW
•) Audio CD
•) MP3-CD
You can operate the DVD Recorder using the remote control or the buttons on the front of the DVD Recorder.

×'PIN' appears on the display.

✓ The child lock was activated for the inserted disc. Read 'Child lock' and 'Authorizing discs' in the 'Child lock' chapter.

×I see an 'X' in the menu bar on the screen.

✓ DVDs can be manufactured in such a way that certain operations are required or only specific functions are possible during playback. When the 'X' symbol appears on the screen, the selected function is not available.

×I see region code information on the screen.

✓ Because DVD films are usually not released at the same time in all regions of the world, all DVD players are keyed to a specific region code. Discs can be assigned an optional region code. If the region codes of the player and disc do not coincide, playback is not possible.

✓ The region code for a DVD player can be found on a label at the back of the device.

✓ There are no region codes for DVD+Rs.

Problem

Inserting a disc

1 Press the **OPEN/CLOSE ⏏** button on the front of the Recorder. The disc tray will open. 'OPENING' will appear in the display, then 'TRAY OPEN' when the disc tray has already been opened.

2 Carefully place the disc into the tray with the label facing up, then press **PLAY ►** or **OPEN/CLOSE ⏏** . 'CLOSING' then 'READING' will appear on the display. This indicates that the disc is being read.

How do I insert double-sided DVDs?

Double-sided DVDs do not have labels on either side. The label for each side is placed in the middle (on the inner ring). To play a specific side, the label on the side you want to play must be on top.

Opening/Closing the tray using the remote control

You can also use the remote control to open and close the disc tray.
To do this, hold down the **STOP ■** button on the remote control until 'OPENING' (opens) or 'CLOSING' (closes) appears in the display.

Tip

3 Playback starts automatically.

A menu may appear during playback of a DVD. If the titles and chapters are numbered, press a number button on the remote control. You can also select a menu item with ◄ , ► , **▲CH+** , **CH-▼** , or with the number buttons **0..9** and confirm with **OK** .
You can also call up the menu any time by pressing **DISC-MENU** on the remote control.
For more information, read section 'Playing a DVD video disc'.

When playing a DVD+RW, the Index Picture screen appears. Choose the title you want to play with **CH-▼** , **▲CH+** or **I◄◄** , **►►I** .
Confirm with **OK** .
For more information, read section 'Playing a DVD+RW or DVD+R'.

DVD+ReWritable

If playback does not start automatically, press **PLAY ►** .
For more information, read section 'Playing Audio CDs'.

If '■' lights up on the screen, begin replay with **PLAY ►** .
If a menu appears on the screen, select the corresponding menu item with the buttons of the remote control indicated on the screen (PREV= **I◄◄** , NEXT= **►►I**) or with the remote control buttons **0..9** .
For more information, read section 'Playback of a (Super) Video CD'.

Playing a DVD video disc

1 If playback does not start automatically, press **PLAY ►** .
The following will appear on the display:
title, chapter, elapsed time.

2 To stop playback, press **STOP ■** on the remote control or ■ on the DVD Recorder.

3 To eject the disc, press **OPEN/CLOSE ▲** on the front of the DVD Recorder.

Playing a DVD+RW or DVD+R

1 If the inserted disc has been write-protected or it is a finalized DVD+R, playback starts automatically.

2 If playback does not start automatically, select the title you want to play from the index screen using **CH-▼** or **▲CH+** .
You can also use the **|◄◄** or **►►|** buttons on the front of the recorder.

3 Press the **PLAY►** button.
The following will appear on the display:
title/chapter number, elapsed time.

Problem

×I see the message 'EMPTY DISC' on the display
✓ There are no recordings on this disc.

4 To stop playback, press **STOP■** on the remote control or **■** on the DVD Recorder.

5 To eject the disc, press **OPEN/CLOSE▲** on the front of the DVD Recorder.

?

What do I must pay attention to with regard to recordings that have been recorded in different recording modes?
During playback, the device will automatically switch to the proper mode '***M1***, ***M2***, ***M2x***, ***M3***, ***M4***, ***M6***, ***M8***'.
For more information, please read the section 'Selecting the recording mode (quality)' in the chapter 'Manual recording'.

Playing audio CDs

You can also use the DVD Recorder to play audio CDs

Tip

1 Insert an audio CD. Playback starts automatically.

Audio CD display
If the TV is turned on, the Audio CD display will appear on the screen.
During playback, the number of the current track will be shown on the screen and display.

2 Stop playback with **STOP■** . Track number and total play time are displayed.

Playing MP3 CDs

MP3 (MPEG1 Audio Layer-3) files are highly compressed pieces of music. Using this technology the data volume can be compressed by a factor of 10. This enables you to fit up to 10 hours of CD quality music on a single CD-ROM.

When creating MP3 CDs, keep the following in mind:
Data system supported: ISO9660
Directory structure: maximum of 8 levels
Formats: *.mp3
File names: maximum of 12 characters (8+3)
Maximum of 32 albums, 999 titles
Sampling frequency supported: 32, 44.1, 48 (kHz). Music pieces with different frequencies will be skipped.
Bit rate supported: 32, 64, 96, 128, 192, 256 (kbit/s)
ID3 Tag: Version 1, 1.1. In the case of later versions, the directory name will appear as the album and the file name as the title.

Important information regarding playback:
Only the first session of a multisession CD is played back.

1 Insert an MP3 CD. Playback starts automatically.

MP3 CD display

If the TV is turned on, the MP3 CD display will appear on the TV screen.

During playback, the number of the current track will be shown on the screen and display.
During interrupted playback (using **STOP ■**), the album numbers will be shown on the TV and on the display.

If available on the CD in a so-called ID tag, more information on album, track, and artist will appear on the screen.

Tip

2 Stop playback with **STOP ■** . The number of albums appears on the screen.

Other playback functions

Select the previous or next track with **I◄◄** or **►►I** .

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

1 Press **T/C** and then select symbol 'T' for album or 'C' for track with **►** or **◄** .

2 Select the number of the album/track with **CH-▼** , **▲CH+** or the number buttons **0..9** on the remote control.

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

Tip

Playback of a (Super) Video CD

(Super) Video CDs may feature 'PBC' (Play Back Control). This allows the direct selection of special playback functions (menus). The Video CD must be PBC-compatible (see CD packaging). 'PBC' is turned on by default.

1 Insert a (Super) Video CD.
If the '■' appears on the screen, begin playback with **PLAY ►** .
With 'PBC' switched on, no information will be displayed in the display.

2 If a menu appears on the screen, select the corresponding menu item with the buttons of the remote control indicated on the screen (PREV= ⏮ , NEXT= ⏭) or with the remote control buttons **0..9** .
If the PBC menu contains a title list, the desired title can be chosen directly.

3 The **RETURN** button will take you back to the previous menu.

4 Stop playback with **STOP ■** .

8 Other playback functions

Changing to a different chapter track/title

When a disc contains more than one track, title, or chapter, you can change to a different track, title or chapter as follows. However, if a title contains several chapters, these are selected. Title selection is then possible via the menu bar only.

1 During playback, you can go to the next title/chapter/track using the ▶▶| button. Using the |◀◀ button, you can reach the start of the current title/chapter/track. By pressing the |◀◀ button twice, you can return to the start or the previous title/chapter/track.

Tip

Using the T/C (title/chapter) button

1 Press the **T/C** (title/chapter) button and select the corresponding title with **▲CH+** or **CH-▼** .
Make sure that the 'T' (title) icon is selected in the menu bar.

2 You can also select a chapter within a title using the **T/C** button.
Press **T/C** and select 'C' (chapter) using ▶ .
Then select the corresponding chapter with **▲CH+** or **CH-▼** .

Disc search

You can fast forward a disc at four or thirty two times normal playback speed. You can select other speeds only via the menu bar (▶▶).

1 During playback, hold down |◀◀ (reverse) or ▶▶| (forward) to switch to the search function. You can switch between different speed modes using the |◀◀ / ▶▶| buttons.

2 To continue playback, press **PLAY►** twice at the desired position.

Problem

× No sound

✓ During search the sound is turned off. This is not a defect of your DVD Recorder.

Search function via menu bar

1 During playback, press the **SYSTEM-MENU** button on the remote control. The menu bar will appear at the top of the screen.
2 Select the '▶▶' symbol on the second menu bar using ▶ or ◀ and confirm with **CH-▼** .
3 Now you can select different search speeds forwards or backwards using ◀ or ▶ .
4 If necessary, turn off the menu line with the **SYSTEM-MENU** button.
5 To continue playback, press **PLAY►** twice.

Tip

Still picture

1 During playback, press **PAUSE II** to stop playback and display a still picture.

Still picture features via the menu bar

1 While playback is paused, press the **SYSTEM-MENU** button on the remote control. The menu bar will appear at the top of the screen.
2 Select '◀▯▶' in the second menu bar with ▶ or ◀ then press **CH-▼** .
3 You can now move the still picture forward or backward using ◀ or ▶ .
4 If necessary, turn off the menu line with the **SYSTEM-MENU** button.

Tip

2 To continue playback, press **PLAY►** .

Slow motion

1 Press **PAUSE II** on the remote control during playback. Then hold down **|◀◀** or **▶▶|** to switch to slow motion.

2 You can switch between the different speeds with **|◀◀** or **▶▶|** .

Slow motion via menu bar

1 During playback, press the **PAUSE II** button and then the **SYSTEM-MENU** button on the remote control. The menu bar will appear at the top of the screen.
2 Select '▷' in the second menu bar with ► or ◄ and confirm with **CH-▼** .
3 You can now move forwards or backwards at different speeds using ◄ or ► .
4 If necessary, turn off the menu line with the **SYSTEM-MENU** button.

Tip

3 To continue playback, press **PLAY►** twice.

Search with time entry

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

1 During playback, press the **SYSTEM-MENU** button on the remote control. The menu bar will appear at the top of the screen.

2 Select '🕘' in the second menu bar with ► or ◄ and confirm with **CH-▼** . The playback is stopped and the screen displays how much play time has already elapsed.

3 Enter the desired start time for the playback using the number buttons **0..9** .

4 Confirm with **OK** .

× The time that I entered is blinking on the screen
✓ The selected title is shorter than the time entered. Enter a new time or cancel the function with **SYSTEM-MENU** .

Problem

5 Playback will now start at the time you entered.

Repeating/Shuffle

You can select an entire section or the entire disc for repeat playback. Depending on the disc type (DVD-Video, DVD+RW, Video-CDs), you can select chapters, titles or the entire disc.

1 Select the desired chapter, title or disc and start playback.

2 During playback, press **PLAY MODE**. By pressing **PLAY MODE** again, you can select from the following options:
- •) 'chapter': Repeat chapter (DVD only)
- •) 'title': Repeat track/title
- •) 'repeat': Repeat entire disc (video CD, audio CD only)
- •) 'shuffle': Shuffle
- •) No display: no repeat

3 To cancel the repeat, press **STOP ■**.
You can also keep pressing **PLAY MODE** until the displays disappear.

Repeat a specific segment A-B

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

1 During playback, press the **PAUSE II** at the desired starting position.
You will see a still picture.

2 Keep pressing **PLAY MODE** until the 'A' symbol appears on the TV screen. This will store the start point.
Start playback with **PLAY ►**.

3 At the desired stop point, press the **OK** button. 'A-B' appears on the TV screen. Playback will now resume repeating the selected segment.

4 To cancel the repeat, press **STOP ■**.
You can also keep pressing **PLAY MODE** until the displays disappear.

Scan function

Using this function, you can play the first 10 seconds of each chapter (DVD) or track (CD or VCD) on the disc.

1 During playback, press **PLAY MODE** repeatedly until 'scan' appears on the screen.

2 After 10 seconds, the DVD Recorder will switch to the next chapter/track. To resume the playback at the corresponding chapter/track, press **STOP ■** and then **PLAY ►**.

Camera angle

If a disc contains video sequences that were recorded with different camera angles, you can select different angles for playback.

1 During playback, press **PAUSE II** . You will see a still picture.

2 Press the **SYSTEM-MENU** button and select '📹' using ▶ .

Problem

× The '📹' icon cannot be selected.

✓ The selected scene was only recorded with one camera angle. This function is, therefore, not available. For more information, please read the label of your DVD disc.

3 Select the desired angle with **CH-▼** or **▲CH+** . You can also directly enter the number with the number buttons **0..9** .

4 After a short pause, playback will resume from the new angle. The '📹' icon will remain visible until a section starts that only has one camera angle.

Zoom function

Using this function, you can enlarge the video image and pan through the enlarged image.

1 During playback, press **ZOOM** . The DVD Recorder switches to 'PAUSE'. You will see a still picture.

2 Use **CH-▼** or **▲CH+** to select the desired zoom factor.

3 As soon as '***press OK to pan***' appears, the zoom process is complete.

4 Press **OK** . Use **▲CH+** , **CH-▼** , ▶ , and ◀ to select an area of the image that you want to look at more closely.

5 Confirm with **OK** .

6 To stop zooming, press **PLAY►** and then **SYSTEM-MENU** .

Changing audio language

Pre-recorded DVDs often come in different languages. The language used for playback is the one that you selected during the initial installation of the Recorder or the default language of the DVD. However, you can change the audio language of a disc at any time.
Please note that the audio language can be changed via the menu (**DISC-MENU** button) of the inserted disc as well as with the **AUDIO** button. The audio languages for DVD playback in the two menus may be different. Some DVD's only allow you to change the language in the DVD menu.

1 Press **AUDIO** during playback.

2 Use **CH-▼** or **▲CH+** to select the desired audio language.
You can also directly enter the number with the number buttons **0..9** .

3 Playback will now resume with the new audio language.

Subtitles

Pre-recorded DVDs sometimes come with different subtitle languages. The language used for playback is the one that you selected during the initial installation or the default of the DVD. However, you can change the subtitle language of a disc at any time.
Please note that the subtitle language can be changed via the menu (**DISC-MENU** button) of the inserted disc as well as with the **SUBTITLE** button. It is possible for the subtitle languages of the two menus to be different.

1 Press **SUBTITLE** during playback.
Use **CH-▼** or **▲CH+** to select the desired subtitle language.
You can also directly enter the number with the number buttons **0..9** .
You can shut the subtitles off with number buttons **0** or by selecting '***off***.

2 Playback will now resume with the new subtitle language.

9 Disc Manager (DM)

General information

The 'Disc Manager' is an integrated database in the DVD Recorder that remembers all recordings made by this DVD Recorder. This gives you a complete overview of your entire video collection at the touch of a button. Moreover, the Disc Manager gives you quick and easy access to every recording **made with this DVD Recorder**. The Disc Manager also tells you which film was recorded on which disc and how many unrecorded minutes remain on the discs. And: You can go automatically to the beginning of the selected recording and start playback.

How many discs can I save in the Disc Manager?

You can store up to 999 discs on this DVD Recorder. The maximum number of titles is more than 9000. Each disc can have a maximum of 49 titles.

Caution when recording with other DVD Recorders

Don't use a disc stored in the Disc Manager for recording on other DVD Recorders. If you use a disc to record on another DVD Recorder, then this disc will no longer be recognized by the Disc Manager. In this case, delete the disc from the Disc Manager's memory and then add it after it has been recorded.

Adding 'child-proof discs'

If you want to add child-proof discs you need to enter the PIN code.

Adding a disc to the Disc Manager

You can only add DVD+RW or DVD+R discs to the Disc Manager since other discs do not hold any information on the titles or lengths of the recordings. These discs have to be at least once recorded in the DVD-Recorder. A table of contents has to be available.
DVD+R discs can also be finalized. Other discs cannot be added to the Disc Manager.

Recordings are saved automatically

On a disc that has been added to the Disc Manager, you can make new recordings as often as you like using this DVD Recorder. The titles of these recordings will be stored in the Disc Manager automatically.

Tip

1 Insert the DVD+RW/+R disc that you want to add to the Disc Manager in the DVD Recorder.

× **When I insert a disc I see a number on the screen in the title overview in the top left-hand corner**

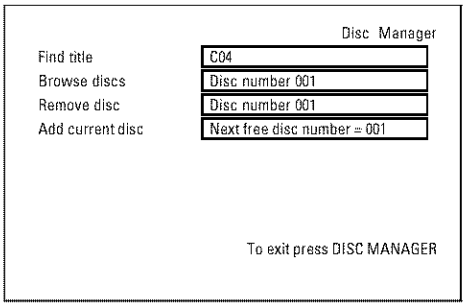
✓ You have inserted a disc that has already been registered by the Disc Manager.

Problem

2 Press the **DISC MANAGER** button on the remote control.

3 Select the '***Add current disc***' line using ▲**CH+** or **CH-**▼ and confirm with ▶ .

4 Confirm with **OK** .
The disc number will be added to the Disc Manager. This will appear on the screen:



5 The disc number is then displayed and the disc tray opens automatically.

6 The disc is now stored in the Disc Manager under the displayed disc number.
Please write this number on the disc and on the cover.

Why do I need to label the discs?
When searching for unrecorded free space or available recordings, you will asked to insert the appropriate discs (disc numbers).

7 To end, press **DISC MANAGER** .

The DVD Recorder will immediately recognize that this disc is saved in the Disc Manager. When this disc is inserted the disc number will appear in the title overview in the top left-hand corner.

Removing discs from the Disc Manager

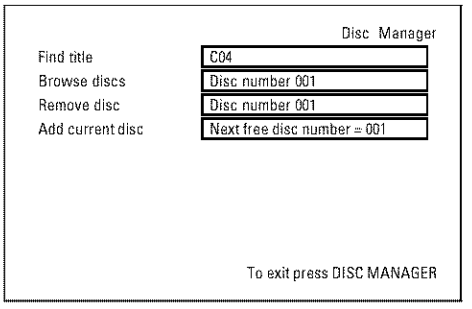
Every DVD+RW/+R is stored with a number in the Disc Manager (DM). You can remove this disc number from the Disc Manager to use the Disc Manager's memory for new discs or to remove damaged discs from memory.

1 Press **DISC MANAGER** on the remote control.

2 Select '***Remove a disc***' using **▲CH+** or **CH-▼** and confirm with **►** .

3 Select the disc number with **▲CH+** , **CH-▼** and confirm with **OK** .

Disc contents are not deleted!
The disc is only removed from the Disc Manager's memory. Its contents remain unchanged!



4 To end, press **DISC MANAGER** .

Searching for a title in the Disc Manager

This function can be used to quickly and easily find and play back a recording saved in the Disc Manager.

1 Press **DISC MANAGER** on the remote control.

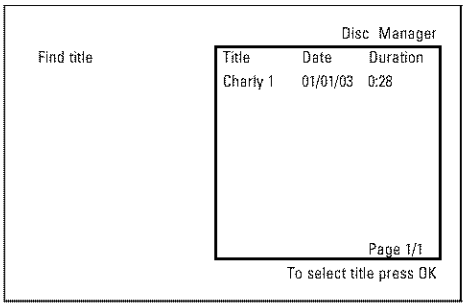
2 Select '***Find title***' using **CH-▼** or **▲CH+** and confirm with ▶ .

3 A list of the titles of all recordings stored in the Disc Manager (DM) will appear on the TV screen.

What do the displays on the screen mean?

'***Title***' = Title
'***Date***' = Date of the recording
'***Duration***' = Length of the recording

Tip



4 Select the title that you want to play back with **CH-▼** or **▲CH+** .
You can use the **|◀◀** and **▶▶|** buttons to scroll a page at a time.

5 Confirm with ▶ . The DVD Recorder will jump to the start of the selected recording.

× I see the message '*Insert disc number*' on my screen

✓ The selected recording is located on the Disc Manager disc with the displayed disc number. Please insert the appropriate disc. After a brief check, the DVD Recorder will jump to the start of the selected recording.

Problem

Searching discs

You can easily search for the title of a recording stored in the Disc Manager. To do this, the appropriate disc does not have to be in the DVD Recorder.

1 Press **DISC MANAGER** on the remote control.

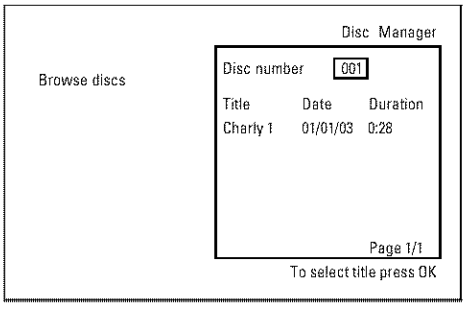
2 Select '***Browse discs***' using **CH-▼** or **▲CH+** .

3 Confirm with ▶ . The screen will show the contents of the last Disc Manager disc used.

4 If necessary, use **▲CH+** or **CH-▼** to select a different disc number and confirm with ▶ . You can also enter the disc number directly with the **0..9** buttons on the remote control.

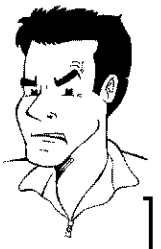
What do the displays on the screen mean?

'***Title***' = Title
'***Date***'= Date of the recording
'***Duration***'= Length of the recording



5 Press **▲CH+** or **CH-▼** to select the desired title.
You can use the **|◀◀** and **▶▶|** buttons to scroll a page at a time.

6 Confirm with **OK** .



×I see the message '*Insert disc number*' on my screen

✓ The selected recording is located on the Disc Manager disc with the displayed disc number. Please insert the appropriate disc.

Problem

7 The DVD Recorder searches for the start of the desired recording.

Searching for a blank section

You can search for space for a new recording on the disc (at least 1 minute of blank space), for example at the end of existing recordings.
This only works with discs which have already been stored in the Disc Manager.

1 Press **DISC MANAGER** on the remote control.

2 Select '***Browse discs***' using **CH-▼** or **▲CH+**.

3 Confirm with **OK**. A list of the recordings on the disc you have selected will appear on the TV screen.

4 Use **▲CH+** or **CH-▼** to select a disc (disc number) on which there is enough space for the recording.

How can I see how much space is available for the recording?

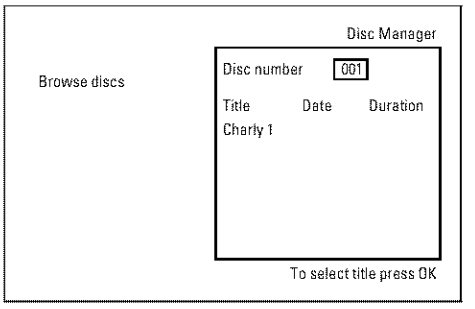
The space available is designated as '***Empty***'. The time is displayed next to the title '***Empty***'. You can use the **REC MODE** button to change the recording mode (recording time).

5 Press **▲CH+** or **CH-▼** to select the title '***Empty***'.
You can use the **|◀◀** and **▶▶|** buttons to scroll a page at a time.

6 Confirm with **OK**.

×I see the message e.g. '*Insert disc number*' on my screen

✓ The selected recording is located on the Disc Manager disc with the displayed disc number. Please insert the appropriate disc.



The DVD Recorder rewinds to the beginning of that particular part and automatically switches to Stop.

10 Recording

ENGLISH

General information

What kind of discs can be used for recording?

You can use two different types of DVDs with this DVD Recorder:

DVD+RW

This disc can be recorded on and then erased.

DVD+R

This disc can only be recorded on once.

For this DVD to be played in a DVD player, it must be finalized with '***Finalize disc***'. After this is done, no more recordings can be added to this disc.

If this disc is only to be played in the DVD Recorder, then it does not have to be finalized. Recordings can be added and then deleted. However, the location (playing time) of the deleted recording (title) will no longer be available.

?

With the 'Manual recording' function you can make a spontaneous recording (for example, a program currently being shown).

To do this, select the title to be overwritten or choose an '***Empty title***' in the 'index screen' with the **CH-▼** , **▲CH+** buttons.

If the recording is to be inserted between existing recordings, please note the length of the old and new recording. If the new recording is too long, the recording (title/chapter) following it will be overwritten.

Adding new recordings after the end of all recordings (Safe Record)

To add a new recording after the last recording on a disc, press and hold the **REC/OTR ●** button until 'SAFE REC' appears in the display.

For DVD+R, each new recording is always placed after all previous recordings since previous recordings cannot be overwritten.

End of disc is reached

If the end of a disc is reached during recording, recording will stop and the Recorder will turn itself off automatically.

Tip

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

Please refer to **'Recording with automatic switch-off'**, if you want to start a recording manually and conclude it within a specific amount of time. This permits accidentally recording to the end of the disc.

Tip: If the end of a disc is reached during recording, recording will stop and the Recorder will turn itself off automatically.

Recording without automatic switch-off

1 Switch on the TV and, if required, select the channel number for the DVD Recorder (channel 3 or 4 or Audio/Video In channel).

2 Insert a disc to be used for the recording. The system and content of the disc will be checked. 'READING' will appear on the display.

× Index display

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

× 'EMPTY DISC' appears in the display.

✓ The inserted DVD is empty.

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

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

× *'Title limit'* appears on the screen when a recording is attempted.

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

Problem

3 If necessary, switch to TV programming by pressing the **MONITOR** button on the remote.

4 Use **▲CH+** or **CH-▼** to select the channel you want to record. The following will appear on the display:

Channel number of the external inputs:

'EXT2' SVHS jack (Y/C) **S-VIDEO IN** Video jack (CVBS) **Video in** , Audio jack **IN L AUDIO R** for SVHS-jack and Video jack.

Switching between jack **S-VIDEO IN** and **Video in** is done automatically. In case both jacks are occupied, the signal at jack **S-VIDEO IN** is given priority.

'EXT1' Component Video jacks on the back **IN COMPONENT VIDEO** , Audio jacks **IN AUDIO LR** for Component Video

'CAM1' SVHS-/Audio front jacks **S-VIDEO / left AUDIO right**

'CAM1' Video/Audio front jacks A/V **VIDEO / left AUDIO right**

Switching between jack **S-VIDEO** and **VIDEO** is done automatically. In case both jacks are occupied, the signal at jack **S-VIDEO** is given priority.

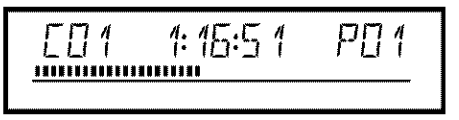
'CAM2' Digital video (i.Link) front jack **DV IN**

Tip

5

To start recording, press **REC/OTR** ● on the remote control or **RECORD** on the DVD Recorder.

To start the recording after all other recordings on the disc, press and hold the **REC/OTR** ● button until 'SAFE REC' appears in the display.
For DVD+Rs, each recording is always started after all previous recordings since previous recordings cannot be overwritten.
The display panel will appear similar to the example shown below.



Inserting chapter markers

During recording, scenes can be marked so they can be found or hidden later.
During recording, press **FSS** ✂ at the start of the desired location. '***Inserting marker***' appears on the TV screen. In the display, the number of 'CHAPTERS' is increased by one.
For more information about title/chapter, please read the section 'Changing to a different chapter track/title' in the chapter 'Other playback functions'.

Tip

6

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

× If display reads 'DISC ERR'

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

Problem

Making recordings on DVD+R discs compatible

If you want to playback recordings on a DVD player, you must first finalize the disc in the DVD Recorder. You can use the '***Finalizing***' function on the DVD so that it can be read by the DVD player without problem. Please read paragraph 'Finalizing DVD+R discs' in the chapter 'Managing disc content'.

Tip

Pausing recording

1 During recording press **PAUSE II** , for example to avoid recording the commercials.

2 To continue recording, press **REC/OTR ●** .

Tip

Ending recording

To stop recording, press the **STOP ■** button. Wait until 'MENU UPDT' disappears from the display before you try another feature.

Recording with automatic switch-off (OTR one-touch-recording)

1 Insert a disc.

2 If necessary, switch to TV programming by pressing the **MONITOR** button on the remote.

3 Use **▲CH+** or **CH-▼** to select the channel you want to record.

4 Press **REC/OTR ●** on the remote control repeatedly. Each time you press **REC/OTR ●** you will add 30 minutes to the recording time.

?

How can I delete the recording time I just entered?

To delete an entry, press **CLEAR** while the display shows the recording time.

How can I check the remaining recording time?

Press **SYSTEM-MENU** while an OTR is in progress. The time at which the recording will end will appear on the TV screen in the timer info box.

Preventing accidental erasing of discs

You can lock the entire disc to prevent important recordings from being erased by accident. You can only lock the entire disc. It is not possible to lock individual recordings.

What happens with DVD+R discs?

As long as these discs have not been finalized, you can protect them against being overwritten just like DVD+RW.

?

1 Put the disc to be locked into the recorder.

2 While the Index Picture Screen is displayed, press **STOP ■** on the remote control. The first title is selected.

3 Press **▲CH+** . The disc information screen is displayed.

4 Press the ▶ button.
Select the '***Protection***' line.
Confirm with ▶ .

5 Select '***Protected***' using **CH-▼** and confirm with **OK** .

6 Press ◀ , then press **DISC-MENU** to play the disc.

The entire disc is now protected. If you attempt a recording, 'DISC LOCK' will appear on the display and '***Disc locked***' will appear on the TV screen.

If you later decide to record on the disc, follow these steps but select '***Unprotected***' at step **5** .

Tip

Lining up recordings within a title (assemble cut)

You can add further recordings to a title already contained on a DVD+RW. The new recording will be added to the title as a chapter. Previous information will be overwritten from this location onward. Depending on the length of the recording, this will also overwrite titles that follow the current title. The recording mode (quality) is automatically transferred from the current title.
To play back this recording, press **SYSTEM-MENU** and select 'C' (chapter) using ▶ . You can also use **T/C** .

For more information, read section 'Changing to a different chapter track/title' in chapter 'Other playback functions'.

What happens with DVD+Rs?

New recordings on DVD+R can only be made on existing space. You cannot overwrite existing recordings on 'DVD+R' discs.

1 In the index display, find the title to which the new recording is to be added.

2 Look at the last minute of the old recording.

3 Press **PAUSE II** on the remote control at the location where the new recording is to start. '**II** ' will appear on the screen.

4 If you want to monitor the recording, you can switch to the internal tuner using the **MONITOR** button.

5 Now start recording as usual by pressing **REC/OTR ●** on the remote control.
The new recording is added.

6 Stop recording with **STOP ■** .

Selecting the recording mode (quality)

By selecting a recording mode, you define the picture quality of recordings and the maximum recording time for a disc.
You can check the quality by switching to a recording mode watching the picture via the built-in tuner. (Press the **MONITOR** button).
For playback, the correct picture quality will automatically be selected.

1 Switch on the TV. If required, select the channel number for the DVD Recorder (channel 3 or 4 or the Audio/Video In channel).

Select the record mode with the button **REC MODE** on the remote control.

Which recording modes can I choose?

'M1': High Quality offers the best picture quality with a total recording time of 1 hour.

'M2': Standard Play (pre-recorded DVD quality) offers excellent picture quality with a total recording time of 2 hours.

'M2x': Standard Play plus (better than S-VHS picture quality) offers excellent picture quality with a total recording time of 2.5 hours.

'M3': Long Play (S-VHS picture quality). Total recording time of 3 hours.

'M4': Extended Play (better than VHS picture quality). Total recording time of 4 hours.

'M6': Super Long Play (VHS picture quality). Total recording time of 6 hours.

'M8': Super Extended Play (VHS picture quality). Total recording time of 8 hours.

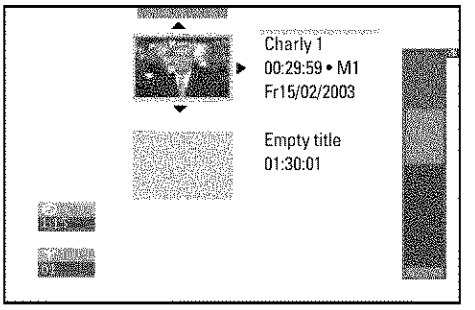
Can I also change the recording mode via a menu?

1 Press the **SYSTEM-MENU** button.
2 Select '⚙' using ◄ or ► .
3 Select line '***Record settings***' using **CH-▼** or **▲CH+** and confirm with ► .
4 At '***Rec Mode***,' select the recording mode using ◄ or ► .
5 Confirm with **OK** and end with **SYSTEM-MENU** .
6 If you select the '***M3***', '***M4***', '***M6***' or '***M8***' recording modes, you can select the '***Stndrd***' (standard) or '***Sport***' (for quick movements) settings in the '***Filter mode***' line.

Tip

11 Managing disc content

General



When a recording is made on a disc, the following information is saved at the start of each recording:
•) Name of the recording
If no name is sent by the broadcaster, then
the channel number (channel name) and time the recording started is saved as the name
•) Length of recording
•) Recording mode (quality)
•) Date of the recording
•) Recording index screen

If '***Auto chapters***' is turned on in the '***Record settings***' menu, a marking will be made every 5-6 minutes. These markers are called chapter markers.
These markers can be changed after the recording is complete.

Can markings also be made on DVD+Rs?
Markings can be made on these discs as long as they have not been finalized.

It is also possible to create additional chapter markings. This allows you to hide or skip things you don't want to see (e.g. commercials). During playback you would then see your recording without the hidden chapter as a complete sequence.

Select from the following chapters:

Read **'Favorite scene selection'** to learn how to divide titles into chapters and how to manage chapters.

Read **'Editing recording titles (name)'** to learn how to change recording names.

Read **'Playing the entire title'** to learn how to play the entire title, including hidden chapters.

Read **'Deleting recordings/titles'** to learn how to erase the title.

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

Favorite Scene Selection

In this menu, you can adjust a title to your personal preferences.
You can insert/delete chapter markers, hide chapters, select a new index screen, or split the title. Press **FSS** ✂ on the remote control during recording to open this menu.

Inserting chapter marker

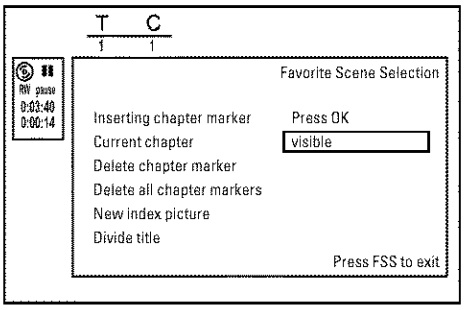
During playback, you can set and delete chapter markers within a title.
Each disc can have a maximum of 124 chapters, and an individual Title can have up to 99 chapters. When one of these values is reached, the following appears on the screen: '***Chapter limit***'. Some markers will need to be deleted in order to create new ones or to make recordings.

1 During playback, press **FSS** ✂ on the remote control at the appropriate point. The '***Favorite Scene Selection***' menu will appear on the screen.

2 Press **▲CH+** or **CH-▼** to select '***Inserting chapter marker***' then press **OK**. '***Inserting marker***' appears on the TV screen.

Tip

'X' appears on the TV screen.
This DVD is protected or a finalized DVD-R was inserted. You cannot make any changes to it.



3 To remove the menu, press **FSS** ✂.

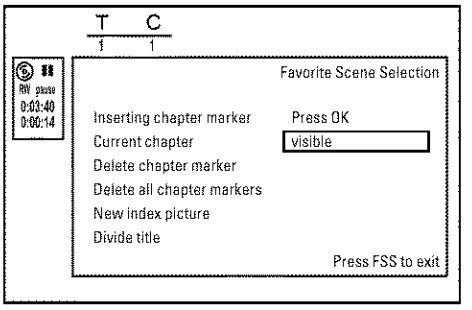
Hiding chapters

Initially all chapters are visible. You can hide chapters for playback (e.g. commercial skipping) or make them visible again. In editing mode, hidden chapters are displayed in dimmed mode.

1 During playback of the corresponding chapter, press **FSS** ✂ on the remote control. The '***Favorite Scene Selection***' menu will appear on the screen.

Tip

How can I select other chapters?
1 Press **T/C** on the remote control. Titles and chapters will be displayed at the top of the screen.
2 Select the title (T) or chapter (C) with ▶ or ◀.
3 Select the title/chapter you want to edit with **▲CH+** or **CH-▼**.



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

3 Select '***hidden***' by pressing ▶ repeatedly. The picture is displayed darker.

Tip

Fast switching options

Using **SELECT** in the editing menu, you can quickly and easily switch between chapter view ('***visible***') and chapter hide ('***hidden***').

4 To end, press **FSS** ✂ .

During playback this chapter will be skipped.
If you want to view the chapter again, select '***visible***' using ▶ in step **3** .

Deleting chapter markers

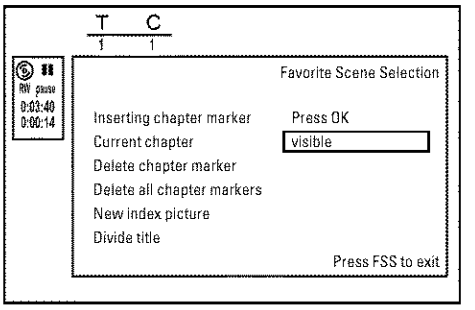
Within a title, you can either delete individual chapter markers or all markers.

1 During playback of the corresponding chapter, press **FSS** ✂ on the remote control. The '***Favorite Scene Selection***' menu will appear on the screen.

Tip

How can I select other chapters?

1 Press **T/C** on the remote control. Titles and chapters will be displayed at the top of the screen.
2 Select the title (T) or chapter (C) with ▶ or ◀ .
3 Select the title/chapter you want to edit with ▲**CH+** or **CH-**▼ .



2 Using **CH-**▼ , select either '***Delete chapter marker***' for this chapter or '***Delete all chapter markers***' for all chapters of the selected title.

3 Confirm with **OK** . (You will be prompted to press **OK** again to make sure you really want to delete all markers. If you do not want to, press the ◀ button.)

4 To remove the menu, press **FSS** ✂ .

Changing the index picture

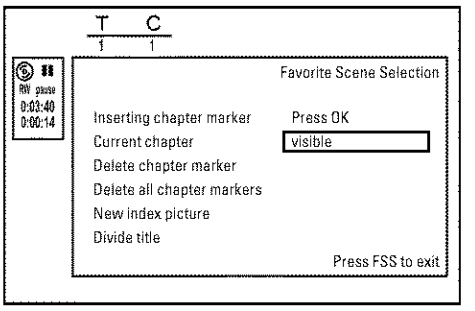
Normally, the first frame of a recording is shown as the title's index picture. You can, however, use any picture as an index picture.

1 During playback, find the location that you want to use as the new index picture. Press the **PAUSE II** button to pause play.

2 Press the **FSS** ✂ button. The '***Favorite Scene Selection***' menu will appear on the screen.

3 Select the line '***New index picture***' and confirm with **OK** .

4 Start the action with **OK** . '***Updating menu***' appears on the TV screen.



When successfully completed, the DVD Recorder automatically brings you back to the index picture screen.

Splitting titles

A title can be split into several parts (titles) no matter how large. Each of these parts (titles) is characterized by its own index picture.
Warning! Once a title is split, it cannot be reversed.

Can I also divide titles on DVD+Rs?

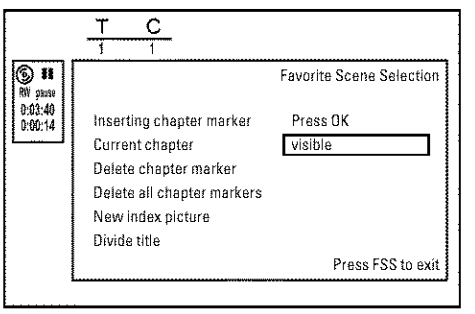
Because recordings on DVD+Rs cannot be overwritten, it is not possible to divide titles.

1 Press **FSS** ✂ on the remote control during playback of the corresponding title. The '***Favorite Scene Selection***' menu will appear on the screen.

2 Select '***Divide title***' and confirm with the **OK** button.

3 If you are certain, start the process with **OK** . '***Dividing title***' will appear on the screen.

4 Wait until the new title is displayed with an index picture in the index picture overview.



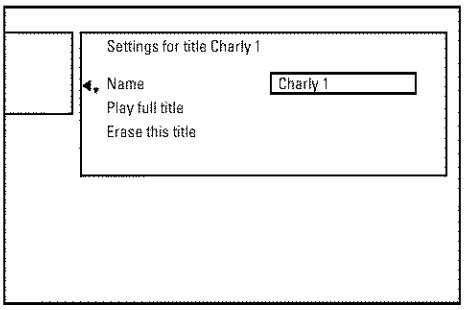
The process of splitting the title is now complete.

Editing recording titles (name)

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

1 Press **STOP** ■ to stop playback if necessary.

2 Using **▲CH+** or **CH-▼** , select the title you want to edit and confirm with ▶ . The menu for editing names will appear.



3 Select '***Name***' using **▲CH+** or **CH-▼** and confirm with ▶ .

4 Using ▶ or ◀ , select the character position where the letter/number/symbol is to be changed or reentered.

5 Change the desired character using **▲CH+** or **CH-▼** . You can switch between uppercase and lowercase letters with the **SELECT** button. You can re-delete a character with the **CLEAR** button.

6 Repeat steps **4** and **5** until you have made the desired changes.

7 Save the new name with **OK** . '***Storing name***' appears on the TV screen for confirmation.

8 To end, press ◀ .

Playing the entire title

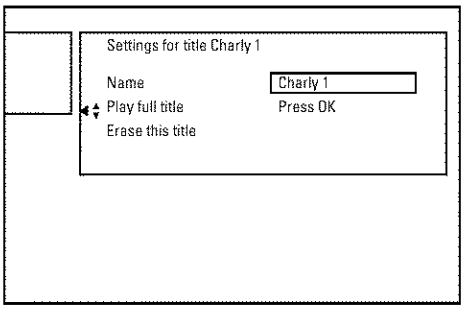
If you have hidden certain chapters of a title, with this setting you can view the entire title including the hidden chapters. Proceed as follows:

1 Press the **STOP ■** button, or during playback press **DISC-MENU** .

2 Using **▲CH+** or **CH-▼** select the title that you want to play back and confirm with **▶** . The title editing menu will appear.

3 Select '***Play full title***' using **▲CH+** or **CH-▼** and confirm with **OK** .

4 Playback starts automatically. The full title - including the hidden chapters - is played.



Deleting recordings/titles

You can delete specific recordings from a disc. Proceed as follows:

1 Press the **STOP ■** button, or during playback press **DISC-MENU** .

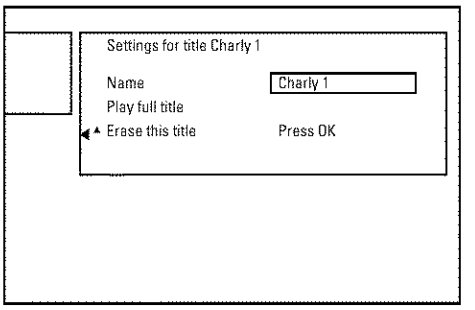
2 Use **▲CH+** or **CH-▼** to select the title to be deleted and confirm with **▶** . The title editing menu will appear.

3 Select '***Erase this title***' using **▲CH+** or **CH-▼** and confirm with **OK** . '***This will completely erase this title***'. '***Press OK to confirm***' will appear on the screen.

4 If you want to delete this title, confirm with **OK** . Otherwise, end by pressing **◀** .

5 '***Erasing title***' will appear on the screen.

6 An '***Empty title***' box will now appear at this location in the index picture screen. New recordings can now be added at this location.
If the deleted title was too short (less than one minute), no '***Empty title***' will appear at this point.

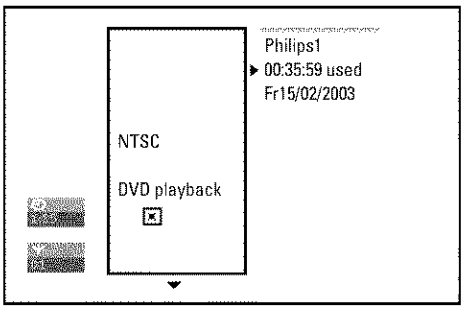


Can titles also be deleted on DVD+Rs?

Titles on DVD+R are only marked as deleted. '***Deleted title***' appears on the TV screen instead of '***Empty title***.' During playback, the deleted title will be skipped. The location on the disc used for this title cannot be reused since the title has not been physically deleted. After a disc has been finalized, no further changes can be made.

Disc settings

This display is located **before** the first title and contains general information about the inserted disc.



You can:
•) change the disc name
•) protect or unprotect a disc
•) finalize editing (make DVD compatible)
•) finalizing DVD+Rs
•) Erase DVD+RWs

To show this display, proceed as follows:

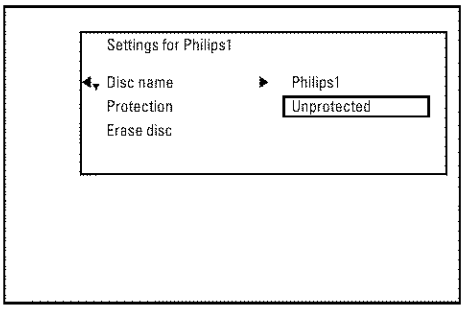
1 Press the **STOP ■** button, or during playback press **DISC-MENU** .

2 Select the first title with **▲CH+** or press **STOP ■** .

3 Press the **▲CH+** button. The disc information screen will appear.

Changing disc name

1 Press ▶ in the 'Disc info display'. The '***Settings for***' menu will appear on the screen.



2 Select the '***Disc name***' line using **▲CH+** or **CH-▼** and confirm with ▶ .

3 Using ▶ or ◀ select the position where the letter/number/symbol is to be changed/re-entered.

4 Change the desired character using **▲CH+** or **CH-▼** . You can switch between uppercase and lowercase letters with the **SELECT** button. You can re-delete a character with the **CLEAR** button.

5 Repeat step **3** and step **4** until you have made the desired changes.

6 Save the new title with **OK** . '***Storing name***' appears on the TV screen for confirmation.

7 To end, press ◀ .

Finalize editing

If one or more titles have been edited, it is possible that another DVD Player will display the original titles. You can prepare your disc so that a DVD player can play the edited version.

1 Press ▶ in the 'Disc info display'. The '***Settings for***' menu will appear on the screen.

2 Select the line '***Make edits compatible***' using **▲CH+** or **CH-▼** and confirm with **OK**.

×The line '*Make edits compatible*' does not appear

✓ Your disc is already compatible. It does not need to be converted. To end, press **SYSTEM-MENU**.

Problem

3 '***This will take***...' will appear on the screen to show how long this process will last.

4 To confirm, press **OK**. '***Working***...' will appear on the screen. A bar moving from left to right will show the progress of the conversion.

Finalizing DVD+R discs

This function is necessary so that a DVD+R can be played in a DVD player. When this function is completed, no further recordings or changes can be made to the disc.

1 Press ▶ in the 'Disc info display'. The '***Settings for***' menu will appear on the screen.

2 Select '***Finalize disc***' using **▲CH+** or **CH-▼** and confirm with **OK**.

×'*Finalize disc*' does not appear in the display.

✓ Either no DVD+R was inserted or the disc has already been finalized. To end, press **SYSTEM-MENU**.

×The '*Settings for*' menu does not appear

✓ If the disc was made on another DVD Recorder, it is possible that this menu cannot be opened. In this case, use the '***Finalize disc***' function in the '🔧' menu, submenu '***Features***'.

Problem

3 '***This will take***...' will appear on the screen to show how long this process will last.

4 To confirm, press **OK**. '***Working***...' will appear on the screen. A bar moving from left to right will show the progress of the editing process.

Erasing DVD+RWs

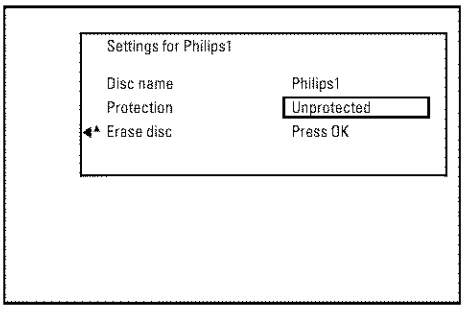
1 Press ▶ in the 'Disc info display'. The '***Settings for***' menu will appear on the screen.

2 Select '***Erase disc***' using ▲**CH+** or **CH-**▼ and confirm with **OK**. '***This will erase all titles***' ***Press OK to confirm***' appears on the screen.

3 If you want to delete all titles, confirm with **OK**. Otherwise, end by pressing ◀.

4 '***Erasing disc***' will appear on the TV screen.

5 After the disc has been successfully erased, the index picture screen will be empty.



Tip

If the disc is empty already, you cannot select '***Erase disc***'.

12 Programming a recording (TIMER)

ENGLISH

General

Use programmed recording (TIMER) to automatically start and stop a recording at a later date. The DVD Recorder will switch to the right channel and begin recording at the correct time. With this DVD Recorder, you can pre-program up to 15 recordings within a period of one year.

To make a programmed recording, your DVD Recorder needs to know:
* the date of the recording
* the channel number of the TV channel
* the start and stop time of the recording
* the recording mode ('***M1/M2/M2x/M3/M4/M6/M8***')

This information is saved in a TIMER block.
Before you begin, make sure the clock is set. If the clock is not set, the '***Time/Date***' menu will appear when you press the **TIMER** ⏲ button.

Programming a recording with the 'GUIDE Plus+® system'

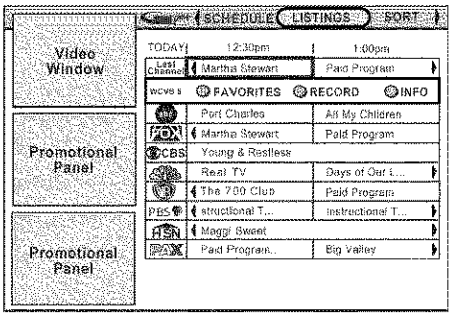
The GUIDE Plus+® system has made it even easier to program recordings. All you have to do is select the show you want to record from a channel listing and do the programming at the touch of a button.

1 Switch on the TV. If required, select the channel number for the DVD Recorder (channel 3 or 4 or the Audio/Video In channel).

2 Press **GUIDE/TV** on the remote control.

3 Use ▲**CH+** or **CH-**▼ to select the TV station, and ◄ or ► to select the show to record.

4 Press the green function button (labeled '***RECORD***' on the screen).
WARNING! Do not press REC/OTR ●!
The TV show will be stored in memory for recordings.
Read the information on the screen.



You can also program TV shows as 'Favorites'

Press instead the green function button the blue one (labeled '***FAVORITE***' on the screen).
The TV show will be stored in memory for Favorites.

Setting up repeat recordings

You can choose from the following settings with the green function button:

Frequency : '***Once***': one-time recordings
'***Regularly***': Repeated when the show is available.At least twice a week
'***Weekly***': Repeated weekly recordings (every week on the same day).
'***Off***': this will stop any future occurrences of the program from being recorded but will keep the show in the list.

Tip

5 Repeat steps **3** to **4** to program all your recordings.

6 End with the **GUIDE/TV** button.
To find out how you can check which shows you have programmed, read the section on 'How to check, change or delete a programmed recording (TIMER)'.

7 Insert a recordable disc in the Recorder.
The disc is checked.

8 Locate on the disc the position where you want to start the recording.

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

Programming a recording with the 'VCR Plus+® system'

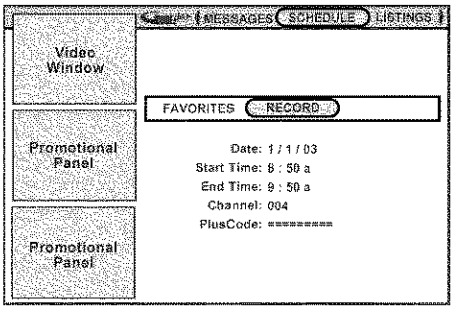
Thanks to this programming system, you no longer need to tediously enter the date, TV channel, start and end times. All the information needed for programming is contained in the PlusCode programming number. This 8-digit PlusCode number is found in most TV listings magazines.

ATTENTION!
Without GUIDE Plus+® system data it is not possible to program a recording with the VCR Plus+® system

1 Switch on the TV. Select the channel number for the DVD Recorder (channel 3 or 4 or the Audio/Video In channel).

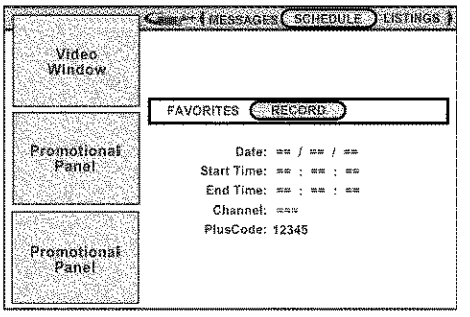
2 With the Recorder on, press **TIMER** ⏲ on the remote control. The information will be displayed.

× I will see some informations about the GUIDE Plus+® system
✓ The GUIDE Plus+® system was not installed yet. Read therefore in the chapter 'The GUIDE Plus+® system' the section 'Set up the GUIDE Plus+® system'.



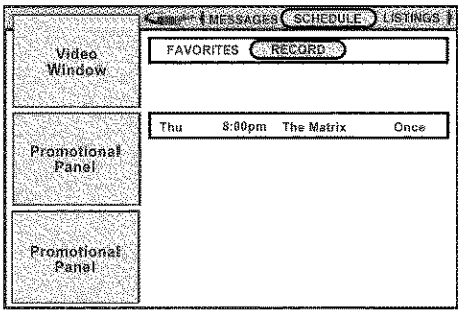
3 Select line '***PlusCode***' using **CH-▼** .

4 Enter the entire PlusCode number. This number is up to 8 digits long and can be found next to the start time of the TV program in your TV listings magazine.
e.g.: 5-234-89 or 5 234 89
Enter 523489 for the PlusCode number.
If you make a mistake, press **▲CH+** . Select line '***PlusCode***' using **CH-▼** .



5 Confirm with **OK** .

6 The decoded data appears after confirmation.



Changing the start/end times

1 Use **CH-▼** or **▲CH+** to select the line (programmed recording) where you want to change the times.
2 Press **OK**.
3 Select '***Start early by***' or '***End late by***' using **▲CH+** or **CH-▼**.
Enter the information in the line using the **0..9** number buttons on the remote control.
4 Confirm with **OK**.
This takes you back to the listing.

Setting up repeat recordings

You can choose from the following settings with the green function button:

Frequency : '***Once***': one-time recordings
'***Daily***': Repeated daily recordings from Monday to Friday.
'***Weekly***': Repeated weekly recordings (every week on the same day).
'***Off***': this will stop any future occurrences of the program from being recorded but will keep the show in the list.

Entering the recording quality

You can choose with the **REC MODE** button.

Quality : Recording quality '***M1***, ***M2***, ***M2x***, ***M3***, ***M4***, ***M6***, ***M8***'.

Tip

7 If all information is correct, press the **OK** button. The information will be stored.

8 To end, press the **GUIDE/TV** button.

9 Insert a recordable disc in the Recorder.
The disc is checked.

10 Locate on the disc the position where you want to start the recording. Press **STOP ■**.

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

Programming a recording without the VCR Plus+® system

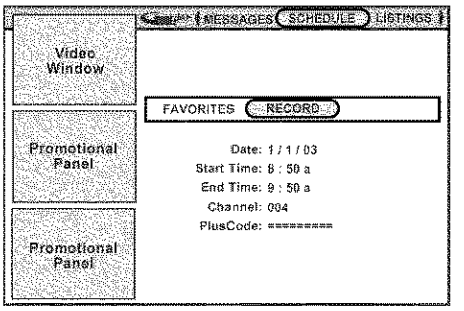
1 Switch on the TV. Select the channel number for the DVD Recorder (channel 3 or 4 or the Audio/Video In channel).

2 Press **TIMER** ⏲ on the remote control.
The current information will appear on the screen.

Problem

×I will see some informations about the GUIDE Plus+® system

✓ The GUIDE Plus+® system was not installed yet. Read therefore in the chapter 'The GUIDE Plus+® system' the section 'Set up the GUIDE Plus+® system'.



3 Select the line with **CH-▼** , **▲CH+** .
Select the entry field with ◄ or ► .

4 Enter information with the number buttons **0..9** .
In the entry field '***Date***', you first enter the month and then the date.

Tip

Change '*AM/PM*'

Use the blue function button to select '***AM***' or '***PM***' in the last input fields of '***Start time***' and '***End time***'.

5 When all settings are correct, confirm with **OK** . You can delete all the entries with the green button.

Setting up repeat recordings

If you have highlighted an entry, you can choose from the following settings with the green function button:

Frequency : '***Once***': once recordings
'***Daily***': Repeated daily recordings from Monday to Sunday.
'***Regularly***': Repeated daily recordings when the show is available.
'***Weekly***': Repeated weekly recordings (every week on the same day).
'***Off***': this will stop any future occurrences of the program from being recorded but will keep the show in the list.

Tip

7 An entry with the data will appear in the '***SCHEDULE***' menu. To find out how you change the data, read the section on 'How to change or delete a programmed recording (TIMER)'.

8 Insert a DVD ready for recording (without write protection).
The disc is checked.

9 Locate on the disc the position where you want to start the recording. Press **STOP ■** .

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

How to change or delete a programmed recording (TIMER)

1 Switch on the TV. If required, select the channel number for the DVD Recorder (channel 3 or 4).

2 With the Recorder switched on, press **GUIDE/TV** on the remote. The '***LISTINGS***' screen will appear.

3 Press **▲CH+** .

4 Select '***SCHEDULE***' with **◄** , **►** . Confirm with **CH-▼** .

5 Select '***RECORD***' with **◄** , **►** . Confirm with **CH-▼** .

6 Select the programmed recording (TIMER) you want to change or delete with **CH-▼** or **▲CH+** .

Delete programmed recording

Press the blue function button.

Extending the start/finish time

1 Press **OK** .

2 Select '***Start early by***' or '***End late by***' using **▲CH+** or **CH-▼** .
Enter the information in the line using the **0..9** number buttons on the remote control.

3 Confirm with **OK** .

Setting up repeat recordings

You can choose from the following settings with the green function button:

Frequency : '***Once***': once recordings
'***Daily***': Repeated daily recordings from Monday to Friday.
'***Regularly***': Repeated recordings when the show is available. At least twice in 7 days
'***Weekly***': Repeated weekly recordings (every week on the same day).
'***Off***': this will stop any future occurrences of the program from being recorded but will keep the show in the list.

Entering the recording quality

You can select with the **REC MODE** button.

Quality : Recording quality '***M1***, ***M2***, ***M2x***, ***M3***, ***M4***, ***M6***, ***M8***'.

Tip

7 To end, press **GUIDE/TV** .

Problem solving for programmed recordings

PROBLEM	SOLUTION
DVD Recorder does not respond	✓While a programmed recording is being made, you cannot operate your DVD Recorder manually. If you want to cancel the programmed recording, press **STANDBY** ⏻ .
'*Recording about to start*' flashes on the TV screen.	✓A recording is about to start in few minutes. Check that the right disc is loaded and the right position for the recording were located.
Error message: '*Insert recordable disc*'	✓Either no disc was inserted or a disc was inserted that cannot be used for recordings. Insert a disc that can be recorded upon. Turn off the DVD-Recorder with **STANDBY** ⏻ . Press **STOP** ■ .
The error message '*Disc locked*' appears briefly on the screen.	✓A protected disc was inserted. Undo the erase protection (chapter 'Manual recording', section 'Preventing accidental erasing of discs '), or insert a different disc.

13 User preferences

This section explains how to customize the DVD Recorder to your preferences. These icons indicate the following:

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

1 Switch on the TV. If required, select the channel number for the DVD Recorder (channel 3 or 4 or Audio/Video In channel).

2 Press **SYSTEM-MENU** on the remote control. The menu bar will appear at the top of the TV screen.

3 Select '' with ◄ or ► and confirm with **CH-▼** .

4 Select the corresponding function with **CH-▼** or **▲CH+** and confirm with ► .

5 Select the corresponding line with **CH-▼** or **▲CH+** and confirm with the ► button. Choose an item you want to adjust, using the instructions provided on the following pages.

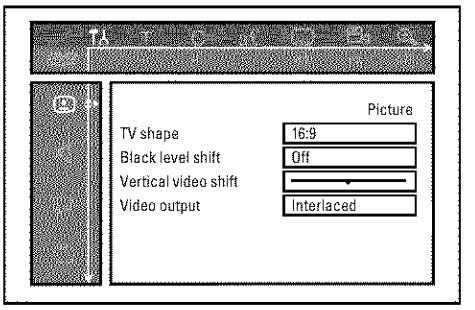
6 Select the corresponding function with **CH-▼** or **▲CH+** , or select the setting with ◄ or ► . Choose an item you want to adjust, using the instructions provided on the following pages.

7 Confirm the new setting by pressing **OK** .

8 To close the menu item, press ◄ .

Picture settings

You can select the following functions in this menu:



'*TV shape*'

The picture signal can be adjusted to fit your TV:

'***4:3 letterbox***': for a 'wide-screen' display with black bars on the top and bottom

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

'***16:9***' : for wide-screen TV (frame ratio 16:9)

'*Black level shift*'

Adapts the color dynamic for NTSC playback when set to '***On***'.

'*Vertical video shift*'

This allows you to move the picture left or right using the ◀ , ▶ buttons in order to adjust the picture to your TV screen.

'*Video output*'

This allows you to switch the Component Video signal between 'Interlaced' and 'Progressive Scan.'

Warning If your TV has separate connections for 'Interlaced' and 'Progressive Scan' or it does not switch automatically between the two, it is possible that no picture will appear on the TV after it is switched from one to the other.

1 Select the setting you need with **SELECT** . Choose Progressive Scan only if your TV has Progressive Scan.

2 Confirm with **OK** .

× No picture appears on the TV after switching

Check the display of your DVD Recorder.
'PRO': 'Progressive Scan' is on
No display: 'Interlaced' is on. Switch your TV to the corresponding input jack or select the corresponding connection. You can also switch the Component video output signal as follows:

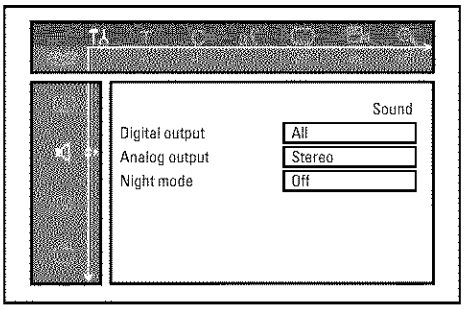
1 Disconnect the recorder's power cord.

2 Hold down ▶▶| on the DVD Recorder while reconnecting the power cord. 'PRO' (progressive scan) appears on the display.

3 If you want to switch back, repeat steps **1** and **2** . 'PRO' disappears from the display. The DVD Recorder is switched to 'Interlaced.'

Sound settings

Depending on the audio outputs being used, this menu provides you with a selection of settings. If you are only using the analog audio outputs (red and white **OUT L AUDIO R**, **OUT AUDIO LR** jacks), select '***Off***' in the '***Digital output***' menu.



'*Digital output*'

You can select from the following settings for devices connected to the **DIGITAL AUDIO OUT** jack:

'***All***' : Dolby Digital and DTS signals are going out unchanged to the digital output. MPEG-2 multi-channel signals are converted to PCM (Pulse Code Modulation).
Use receivers/amplifiers **with a digital multi-channel sound decoder**.

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

'***Off***' : digital output is off.
For devices **with an analog audio input**.

'*Analog output*'

You can select from the following settings for devices connected to the analog outputs (**OUT L AUDIO R**, **OUT AUDIO LR**).

'***Stereo***' : For devices that use neither DolbySurround nor TruSurround. Only use this setting when the DVD Recorder is connected to a stereo TV.

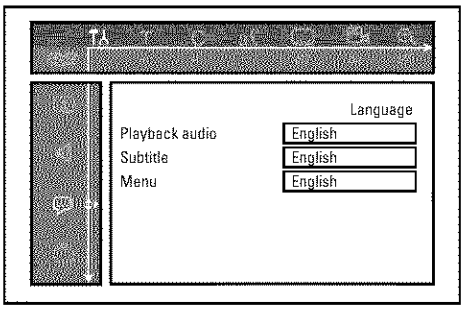
'***Surround***' : Dolby Digital and MPEG-2 multi-channel are mixed to a Dolby Surround-compatible two-channel output signal.
For devices **with a Dolby Surround / Pro Logic decoder** .

'*Night mode*'

Night mode optimizes the sound dynamics at low volume. This causes less disturbance in quiet environments. This setting only functions with Dolby Digital Audio on DVDs.

Language settings

You can select the following settings in this menu:



'*Playback audio*'

Audio language of DVDs

'*Recording audio*'

Audio recording

'*Subtitle*'

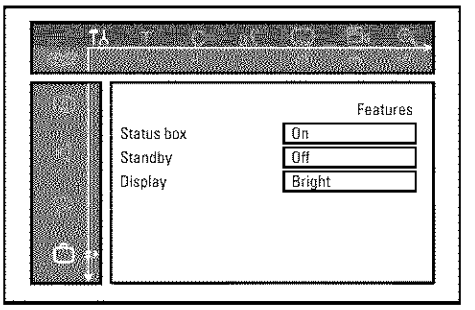
Subtitle language

'*Menu*'

Screen menu language

Additional settings

You can select the following functions in this menu:



'*Status box*'

Along with the on screen menu, the OSD (On Screen Display) also displays the current operating status on the TV screen (counter, playback, recording, TV channel,...).
You can switch off the information about the operating status so as to avoid recording this information when making recordings.

'***On***': The OSD information appears with every selected mode for a few seconds, then disappears again.

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

'*Standby*'

To save energy, you can switch off the clock display on the DVD Recorder. Programmed (TIMER) recordings will still take place.
Moreover, you can present the most important features of the DVD Recorder in scrolling text in the display (demo).

'***Low power***': If the DVD Recorder is switched off using **STANDBY** ⏻ , the clock display is not visible.

'***Off***': If the DVD Recorder is switched off using **STANDBY** ⏻ , the clock display is visible.

'***Demo mode***': If the DVD Recorder is switched off with the **STANDBY** ⏻ button, a list of the most important features is shown in the display.

'*Display*'

You can change the brightness of the display on the DVD Recorder. This setting only affects the DVD Recorder when it is switched on.
You can also adjust this setting with the **DIM** button on the remote control.

'***Bright***': The display appears with normal brightness. The disc tray light is switched on.

'***Dimmed***': The display appears less bright. The disc tray light is switched off.

'***Off***': The display and the disc tray light are switched off.

Remote control settings

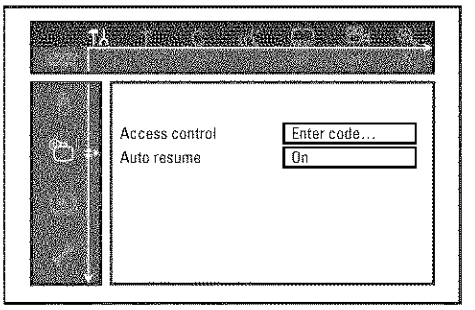
In this menu you can set the remote control type to which your DVD Recorder should respond:

'***DVD player***': Next to your DVD Recorder remote control, the DVD Recorder also responds to a DVD player remote control (remote control code RC-6).
Choose this setting if your Philips TV remote supports DVD functions.

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

Disc feature menu

In this menu you can make changes that relate to the disc:



'Access control'

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

'Auto resume'

If playback of a pre-recorded DVD or VCD is interrupted (**STOP ■** or **OPEN/CLOSE ▲**), playback will be restarted at the exact location when the disc is reinserted. This function does not only apply to the current disc but also to the last 20 discs you played.
If desired, this function can be turned off.

'PBC'

This line only appears when a VCD has been inserted.
This function is used to activate or deactivate the PBC menu (playback control) of Video CDs.
For more information, please see the chapter on 'Playback', 'Playback of a (Super) Video CD'.

'Finalize disc'

This feature allows you to finalize DVD+R discs. If the disc has already been finalized this line will appear darker.

'Adapt disc format'

If a DVD+RW has been recorded in a computer drive or in another DVD Recorder, the index screen may not be displayed correctly.
This feature allows you to change the format of the disc.
This function is therefore only visible if the disc format is different.

14 Access control (Child lock)

Child lock (DVD and VCD)

This function can prevent children from viewing discs.
When in use, a four-digit code (PIN) must be entered in order to play a disc.
In addition, you can set a disc to be played 'always' or 'once' despite the child lock.

•)'***Play always***':
This disc has been placed in a list that fits 50 such 'child safe discs'. When more than 50 discs have been added to the list, the oldest disc is removed to make room for the new one. 'Child safe' will appear on the screen at the start of playback.

•)'***Play once***':
This disc can be played only once. The PIN must be reentered the next time you try to play the disc.

Activating/Deactivating the child lock

1. Switch on the TV. If required, select the channel number for the DVD Recorder (channel 3 or 4 or the Audio/Video In channel).
2. Turn on the DVD Recorder by pressing **STANDBY-ON** ⏻ .
3. Press **SYSTEM-MENU** . The menu bar will appear at the top of the screen.
4. Select '🔧' using ◄ or ► .
5. Select line '(***Disc features***)' using **CH-▼** or **▲CH+** and confirm with ► .
6. '***Access control***' will be selected. Press ► .
7. Press the number buttons to enter a four-digit code of your choice. If you are entering the code for the first time, you must enter it again to confirm.
8. Select '***Child lock***' using **▲CH+** or **CH-▼** and press ► .
9. Select '🔒' using **CH-▼** or **▲CH+** .
10. Confirm with **OK** .
11. To end, press ◄ and **SYSTEM-MENU** .

If you activated Child Lock, you will need to enter the four-digit PIN in order to play locked discs.
To deactivate the child lock, select the '🔓' icon in **9** .

Authorizing discs

1 Insert the disc. After a short check, the access control menu will appear on the screen.

2 Using **▲CH+** or **CH-▼** , select '***Play once***' or '***Play always***.'

3 Use the number buttons **0..9** to enter your PIN.

Double-sided DVDs can have a unique ID number for each side. To completely authorize these discs, you must authorize each side separately. 'Multi-volume' VCDs can also have a unique ID number for each volume. To authorize the complete set, each volume must be authorized separately.

Locking authorized discs

Proceed as follows to lock an authorized disc.

1 Insert the disc. Playback starts automatically. If playback does not start automatically, press **PLAY►** .

2 Press **STOP■** while the icon ' ' is being displayed. The icon will change to ' '. This disc is now locked for further use.

Parental control (DVD video only)

Movies on DVDs may contain scenes which are not suitable for children. DVDs sometimes come with rating information for the entire DVD or only for certain scenes.
Affected scenes are rated from 1 to 8. If a scene with such a rating is recognized during playback, the DVD Recorder compares the Parental control rating with that of the DVD scene. If the scene rating exceeds the Parental control rating, an alternative scene will be played back (if available).
Most DVDs apply the rating to an entire DVD. Therefore, if certain scenes exceed the rating you select, the entire disc will be blocked from viewing.

Activating/Deactivating the parental control

1 Switch on the TV. If required, select the channel number for the DVD Recorder (channel 3 or 4 or the Audio/Video In channel).

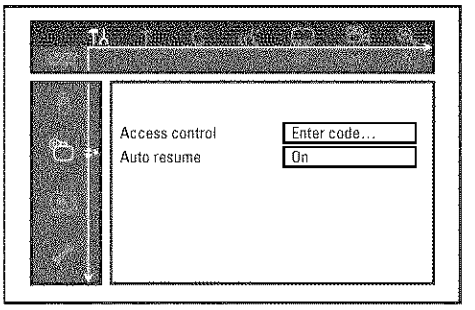
2 Turn on the DVD Recorder by pressing **STANDBY-ON** ⏻ .

3 Press **SYSTEM-MENU** . The menu bar will appear on the top of the TV screen.

4 Select '🔧' using ◄ or ► .

5 Select line '(***Disc features***)' using **CH-▼** or **▲CH+** and confirm with ► .

6 Confirm the line '***Access control***' by pressing ► .



7 Enter a four-digit code of your choice. If you are entering the code for the first time, you must enter it again to confirm.

8 Select '***Parental level***' with **▲CH+** or **CH-▼** and confirm with ► . A bar appears for selecting the parental control level.

9 Select the corresponding parental level using **CH-▼** , **▲CH+** or the number buttons **0..9** .

What do the parental levels mean?

Rating 0 (displayed as '--') parental control is not active.
Rating 1 (childsafe)
Rating 8 (for adults only)

What happens when a DVD scene with a higher rating than authorized is played?

If the Recorder cannot find a suitable alternative, playback is stopped until the four-digit code is entered.

Tip

10 Confirm with **OK**. To end, press repeatedly ◄ and then **SYSTEM-MENU**.

Changing the country

The Parental control levels depend on the country in which the DVD was manufactured. Therefore, it is necessary that you enter the country for which these filter values apply.

1 Switch on the TV. If required, select the channel number for the DVD Recorder (channel 3 or 4 or the Audio/Video In channel).

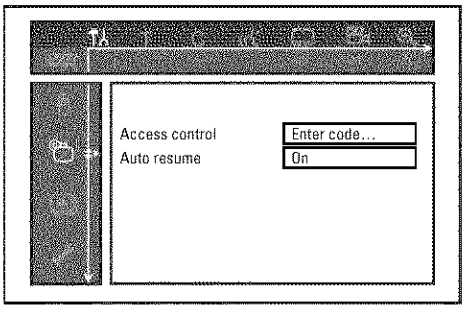
2 Turn on the DVD Recorder by pressing **STANDBY-ON** ⏻.

3 Press **SYSTEM-MENU**. The menu bar will appear.

4 Select '🔧' using ◄ or ►.

5 Select line '(***Disc features***)' using **CH-▼** or **▲CH+** and confirm with ►.

6 Confirm the line '***Access control***' by pressing ►.



7 Press the number buttons to enter a four-digit code of your choice. If you are entering the code for the first time, you must enter it again to confirm.

8 Select '***Change country***' using **▲CH+** or **CH-▼** and confirm with ►.

9 Select your country or that of the DVD using **▲CH+** or **CH-▼** and confirm with **OK**.

10 To end, press ◄ and then **SYSTEM-MENU**.

Changing the PIN

1 Switch on the TV. If required, select the channel number for the DVD Recorder (channel 3 or 4 or the Audio/Video In channel).

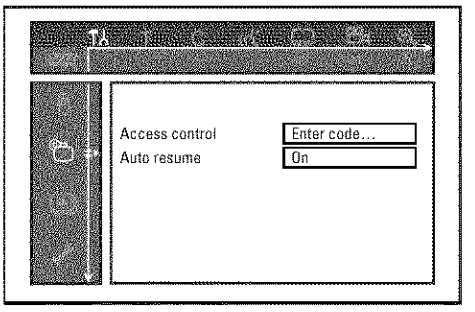
2 Turn on the DVD Recorder by pressing **STANDBY-ON** ⏻ .

3 Press **SYSTEM-MENU** . The menu bar will appear.

4 Select '🔧' using ◄ or ► .

5 Select line '(***Disc features***)' using **CH-▼** or **▲CH+** and confirm with ► .

6 Confirm the line '***Access control***' by pressing ► .



7 Press the number buttons to enter your four-digit code. If you are entering the code for the first time, you must enter it again to confirm.

8 Select the line '***Change code***' using **▲CH+** or **CH-▼** and confirm with ► .

9 Enter the new code with the number buttons **0..9** . Re-enter the code for confirmation.

10 To end, press ◄ and **SYSTEM-MENU** .

Tip

I forgot my code.

When it asks for the code (step **7**), press the **STOP ■** button four times and then press **OK** . The code entry is now deactivated. You can now enter a new code as described above.

15 Before you call technical support

ENGLISH

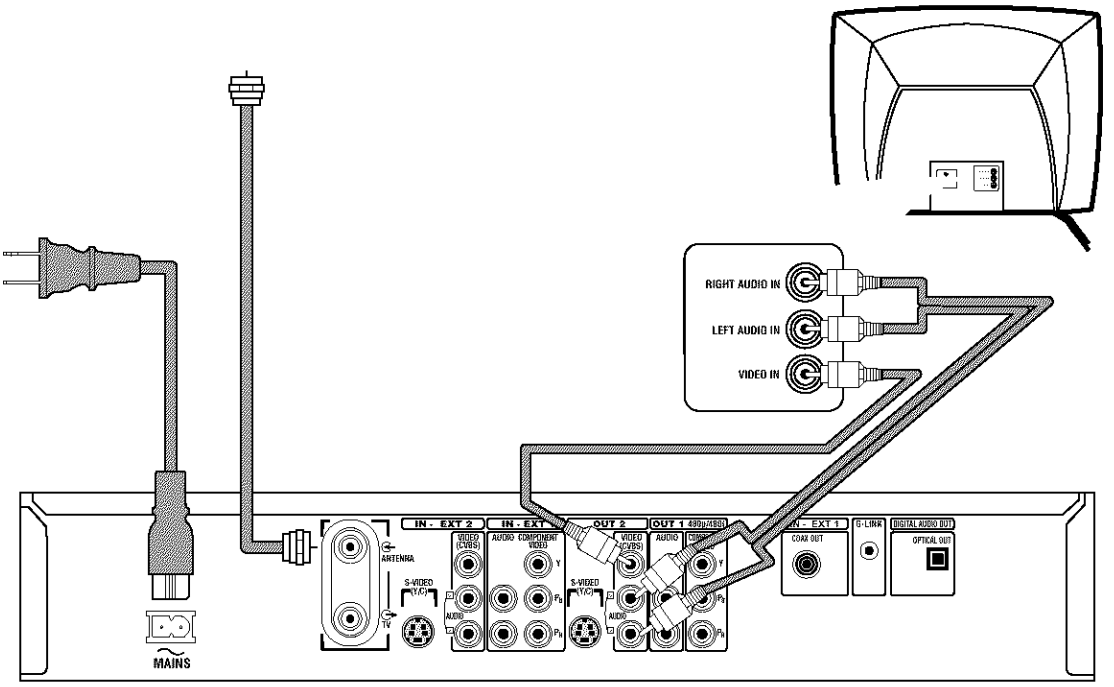
If you have any problems using this DVD Recorder, it may be caused by one of the following reasons. You can also call the **customer service center** in your country.
The telephone numbers can be found in the back of this owner's manual.
Have the model number (MODEL NO) and the production number (PROD.NO) ready.
The serial number (PROD. NO.) is printed on the type plate fixed at the rear of the set.

PROBLEM	SOLUTION
Your DVD Recorder does not respond to any button being pressed, and 'INSTALL DVD' appears in the display:	✓Device is in initial installation mode: Switch on the TV, switch over to the DVD Recorder jack or, if you have only connected the DVD Recorder to an antenna cable, select channel 3 or 4 on the TV. Now the menu for language selection should appear. Read paragraph 'Initial Installation' in 'Installing your DVD Recorder'.
The device does not react to the touch of a button, the remote control is working:	✓'Dealer Mode' is on: All buttons at the front of the DVD Recorder are locked. To switch off this function: 1 Disconnect the DVD Recorder from the power outlet. 2 Press and hold down ■ and **OPEN/CLOSE** ▲ and re-connect the Recorder to the power supply. 3 As soon as the time or '--:--' appears in the display (6 - 10 seconds), release ■ and **OPEN/CLOSE** ▲ .
Your DVD Recorder does not respond to any button being pressed.	✓There is no power. Check the power supply. ✓A programmed recording (TIMER) is currently being made: If desired, cancel the programmed recording (Timer) with **STANDBY** ⏻ . ✓There is a technical problem: Disconnect from the power outlet for 30 seconds, then connect again. If this doesn't help, reset your DVD Recorder to the default factory settings.
Resetting the DVD Recorder to default factory settings	✓**Warning:** All the information stored in the memory (programs, time, TIMER) will be reset (deleted). 1 Disconnect the DVD Recorder from the power outlet. 2 Press and hold down the **STANDBY-ON** ⏻ button on the front of the Recorder while reconnecting to the power outlet. 3 Release **STANDBY-ON** ⏻ when a 'scrolling text' appears in the display. All the information stored in the memory (programs, time, TIMER) will be reset (cleared). Read paragraph 'Initial Installation' in 'Installing your DVD Recorder'.
Remote control does not work:	✓Remote control is not pointing at the device: Point the remote control at the DVD Recorder. See if the 'o(((' appears on the display briefly each time you press a remote control button. If it does, the Recorder is receiving information from the remote correctly. ✓There is a technical problem: Take out the batteries, wait for 10 seconds, and then re-insert them. ✓Batteries are weak: Replace the batteries.
No playback on DVD Recorder:	✓There is no recording on the disc: Change disc. ✓You inserted the wrong disc type: Your Recorder can play the following disc types: DVD Video, (Super)Video-CD, DVD+R(W), Audio-CD , MP3-CDs ✓You inserted the disc the wrong way: Insert the disc with the label facing up. ✓The disc is dirty. Clean the disc. ✓Wrong region code: The region code of the DVD and the DVD Recorder must match. ✓The child lock is on. Read chapter 'Access Control (Child Lock)' ✓You have selected or set the wrong channel number on the TV for the DVD Recorder: Select the correct channel number on the TV (channel 3 or 4). ✓The cable connecting the TV and the DVD Recorder may be loose. Check the cable.

PROBLEM	SOLUTION
I cannot playback (Super) Video CDs	✓It is possible that this (Super) Video CD contains a menu and the 'PBC' is switched off. You can see this in status field '***PBC OFF***'. To activate this function, proceed as follows: 1 Press **SYSTEM-MENU** while the (Super) Video-CD is inserted. 2 Select '🔧' using ◄ or ► . 3 Select line '(***Disc features***)' using **CH-▼** or **▲CH+** and confirm with ► . 4 Select '***On***' in line '***PBC***' using **CH-▼** or **▲CH+** . 5 Confirm with **OK** and end with **SYSTEM-MENU** .
Poor playback on DVD Recorder (distorted picture/distorted sound)	✓Your TV is not properly adjusted. ✓The disc is dirty: Clean the disc. ✓Sometimes the picture may be temporarily distorted. This is not a defect of your DVD Recorder.
No recording possible.	✓The TV channel you want to record is not stored or you selected the wrong program number: Check TV channels stored. ✓Disc is write-protected (cannot be recorded on): Remove write-protection or change the disc. For more information, please see 'Preventing accidental erasing of discs' on the 'Manual Recording'. ✓A finalized DVD+R has been inserted. Change disc.
Programmed recording does not work:	✓You have set the wrong time or date: Check time/date. ✓You have not set the TIMER properly: Check the programmed recordings (TIMER block). ✓A locked disc was inserted: Remove disc lock. ✓A finalized DVD+R has been inserted. Change disc. ✓Cabelbox (if available) switched off: Switch it on ✓IR-Blaster not connected: Connect the IR-Blaster andset up the GUIDE Plus+® system with the cable box. (Chapter 'The GUIDE Plus+® system, section 'Setting up the GUIDE Plus+® system').
Missing or wrong TV channels	✓Wrong cable connection selected ✓Wrong channel line up selected.
'DEMO' appears if I press the GUIDE/TV button.	✓The Demo Pin from the **G-LINK** jack on the backside of the DVD Recorder was not removed. 1 Disconnect the DVD Recorder from the power outlet. 2 Remove the DEMO pin from the **G-LINK** jack on the backside of the DVD Recorder 3 Re-connect the Recorder to the power supply.
The cable box do not always react to the IR Blaster	✓The Infrared (IR) Remote control signal interfere with the IR signal of the IR Blaster Put the IR Blaster closer to the front of the cable box.
In the GUIDE Plus+® '*LISTINGS*' screen, I see too many or too less TV Channels	✓The number of TV channels depends on the setting in the GUIDE Plus+® sytem settings. If you have a Cable Box installed (Cable Box 'YES'), then you should switch on the available channels (Channels above 125). ✓If you have no Cable Box installed (Cable Box 'NO'), then you should switch off the channels which are not available.

PROBLEM	SOLUTION
My Cable Box does not react on the remote control from the Cable Box or automatically switches through the channels	✓If the DVD-Recorder is switched off (**STANDBY** ⏻ button) the Cable Box will be used from the GUIDE Plus+® system via the DVD-Recorder. If you want to watch TV-Channels from the Cable Box, you have to switch the DVD-Recorder on. Then you can select the TV Channels with the remote control from the DVD-Recorder or from the Cable Box.
There is picture or sound interference with the TV reception.	✓During playback via the internal TV tuner (**MONITOR** button), switch to recording mode '***M1***' by pressing **REC MODE** . This will give you the best possible picture quality. Before making the recording, select the recording mode as described in chapter 'Manual recording', section 'Selecting the recording mode (quality)'. ✓Change the modulator channel. During standby hold on the remote the button **3** pressed to switch to channel 3. With button **4** you switch to channel 4. ✓Have your antenna or cable TV signal checked.
Distorted sound coming from a connected hi-fi amplifier	✓The DVD Recorder is connected to the 'Phono-input' of your amplifier: This input jack is provided only for record players without a preamplifier. Connect to a different audio input.
The picture is distorted or black-and-white during playback.	✓The TV system of the disc does not match that of your TV (PAL/NTSC). ✓The recording can be made in color only when the TV channels or the connected additional device sends a color signal. Black-and-white signals without color information (color subcarriers) cannot be recorded in color.
No sound signal at the digital output	✓Check whether the sound settings match the selected inputs and the connected additional devices.
A DVD+RW cannot be played on certain DVD players	✓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 '***M1***': 5 minutes, '***M2***': 10 minutes, '***M2x***': 13 minutes, '***M3***': 15 minutes, '***M4***': 20 minutes '***M6***': 30 minutes '***M8***': 30 minutes ✓Some DVD players cannot playback DVD+RW recordings. You can solve this problem by using a special function: 1 Open the disc tray with **OPEN/CLOSE** ⏏ . Insert the disc but do not close the tray. 2 Hold down the number button **2** on the remote control until the tray closes. The disc is modified. 3 If this fails to produce the desired result, repeat the procedure using the number button **3** on the remote control. 4 You can restore the disc to its original condition by pressing and holding **1** . **Warning!** There is a risk that you can no longer play the disc on other DVD players after this procedure. Therefore, apply this function with particular care.

PROBLEM	SOLUTION
Other disc errors	✓If it is impossible to play a disc, you can try and repair it for new recordings using the following function. The disc will only be prepared for deletion. It will be deleted only after the next recording has taken place. 1 Clean the disc. 2 Open the disc tray with **OPEN/CLOSE ▲** . Insert the disc but do not close the tray. 3 Hold down **CLEAR** on the remote control until the tray closes. The disc is prepared for deletion. 4 Start recording as with an empty disc.



1 **Connect your Antenna or Cable TV signal to the ANTENNA jack on the rear of the DVD Recorder.**

2 **Connect the supplied video cable (which has yellow markings) to the yellow VIDEO (CVBS) OUT 2 jack of the DVD Recorder and to the VIDEO IN jack on your TV.**

3 **Connect the supplied audio cable(s) (red/white markings) to the red/white, right/left AUDIO OUT 2 jacks on the Recorder and to the TV's right/left AUDIO IN jacks.** Match the cable colors to the jack colors.

4 Because you are not using a Cable Box, you should **remove the Demo Pin from the G-LINK jack** on the rear of the DVD Recorder. *Details are on page 7 of this Quick-Use Guide.*

5 **Connect the supplied power cord to the MAINS (AC Power) jack on the rear of the DVD Recorder. Connect the power cords of the Recorder and the TV to a power outlet.**
The first time you connect the Recorder's power cord, available features will scroll across the display panel on the front of the Recorder. This will stop when you turn on the Recorder's power.

6 **Press STANDBY ⏻ to turn on the DVD Recorder. Turn on the TV and set it to the correct Audio/Video In channel.**

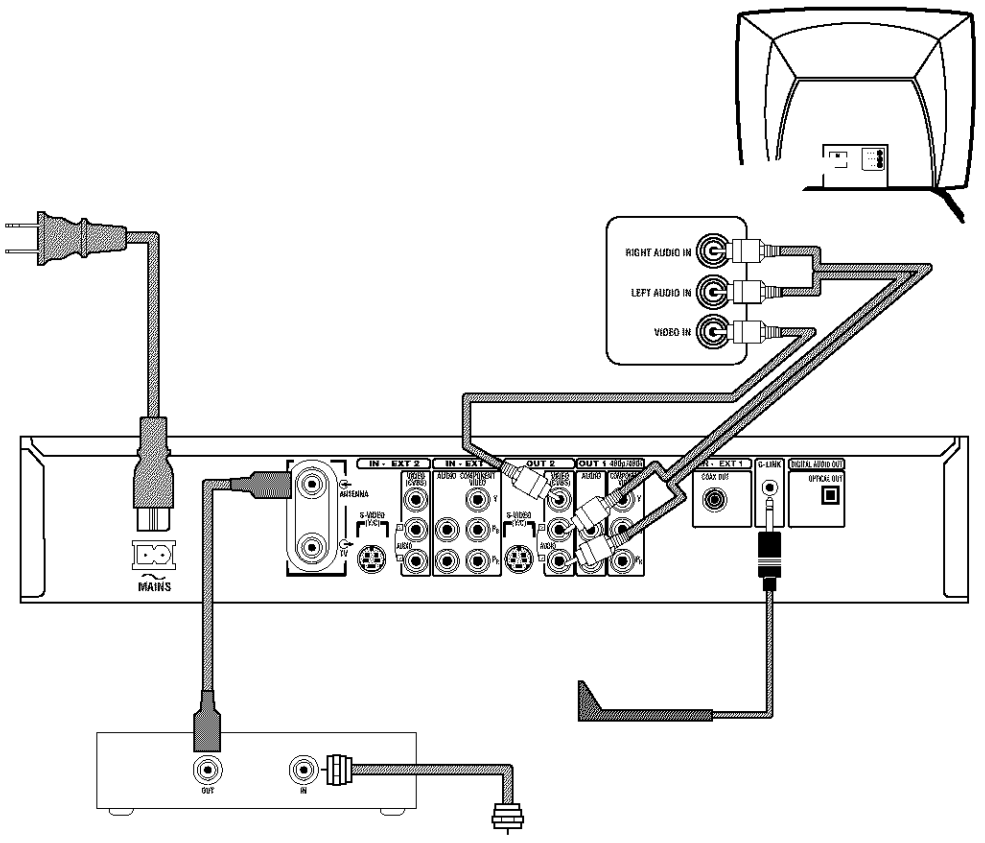
- ***Your TV's Audio/Video In channel may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1 or External In, etc., and may be near channel zero (0). See your TV manual for details. Your TV's remote may have a button or switch that selects different Video In channels. Or, go to your lowest TV channel and change channels down until you see the blue Philips DVD background picture or the Initial Setup Screen on the TV (when the DVD Recorder is on).***
- ***If your TV has a single Antenna In (or RF IN or 75 ohm input) jack, see the DVD Recorder's owner's manual for connection instructions.***

Quick-Use Guide

Follow these simple instructions to get your new DVD Recorder working quickly. For other connections and features, refer to the owner's manual.

Connecting the DVD Recorder (No Cable Box)

You should see the DVD Recorder's Initial Setup menu on the TV the first time you turn on the Recorder. Go to pages 4-5 of this Quick-Use Guide to set up the Recorder for the first time.



1 **Connect the Cable TV signal to the IN jack on your Cable Box.** The IN jack may be labelled differently. See the Cable Box owner's manual for details.

2 **Connect an RF coaxial cable to the OUT jack of the Cable Box and to the ANTENNA jack on the rear of the DVD Recorder.** The OUT jack may be labelled RF OUT, TO TV, or ANTENNA OUT. See the Cable Box owner's manual for details.

3 **Connect the supplied video cable (with yellow markings) to the yellow VIDEO (CVBS) OUT 2 jack of the DVD Recorder and to the VIDEO IN jack on your TV.**

4 **Connect the supplied audio cable(s) (with red/white markings) to the red/white, right/left AUDIO OUT 2 jacks on the Recorder and to the TV's right/left AUDIO IN jacks.** Match the cable colors to the jack colors.

5 You will need the G-Link cable in order to use the GUIDE Plus+® System. **Connect the supplied G-Link cable to the G-LINK jack on the rear of the DVD Recorder.** (Remove the Demo Pin first if it is still attached to the G-LINK jack.) Place the sensor of the G-Link cable in front of the Cable Box so it faces the remote sensor of your Cable Box. The G-Link cable's sensor should be within one inch of the front of your Cable Box.

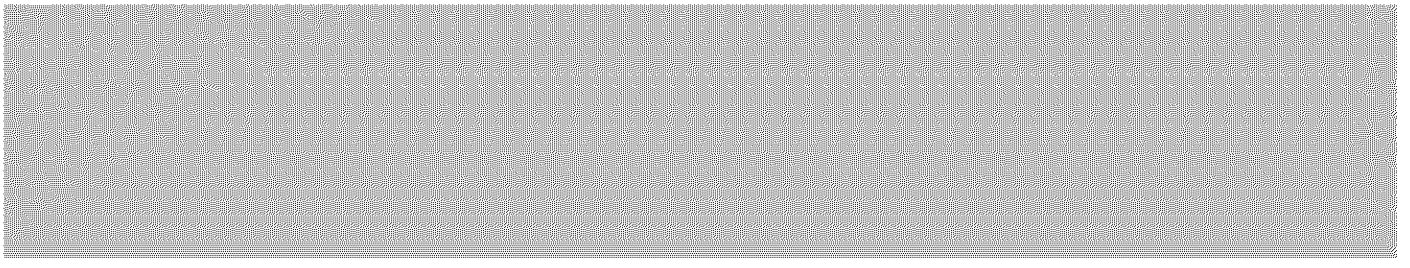
6 **Connect the supplied power cord to the MAINS (AC Power) jack on the rear of the DVD Recorder. Connect the power cords of the DVD Recorder, Cable Box, and TV to a power outlet.**
The first time you connect the DVD Recorder's power cord, the features of the Recorder will scroll across the display panel on the front of the Recorder. This will stop when you turn on the DVD Recorder's power.

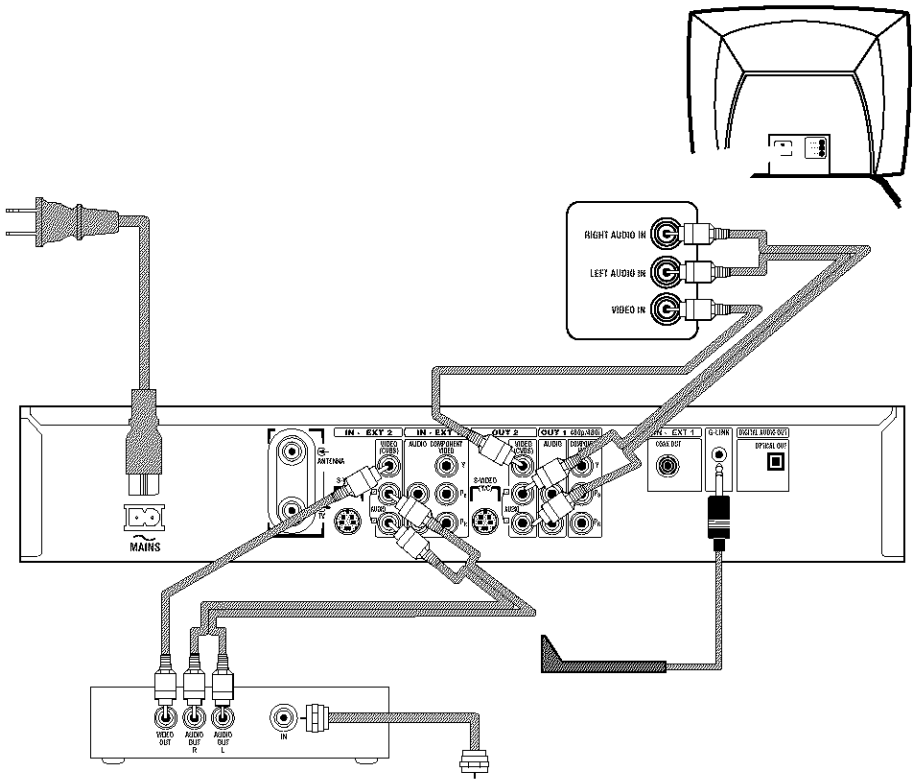
7 **Press STANDBY ⏻ to turn on the DVD Recorder. Set the DVD Recorder to channel 3 or 4 (the output channel of your Cable Box). Turn on the TV and set it to the correct Audio/Video In channel.**

- ***Your TV's Audio/Video In channel may be called AUX or AUXILIARY IN, AUDIO/VIDEO or A/V IN, EXT1 or External In, etc., and may be near channel zero (0). See your TV manual for details. Your TV's remote may have a button or switch that selects Video In channels. Or, go to your lowest TV channel and change TV channels down until you see the blue Philips DVD background picture or the Initial Setup Screen on the TV (when the DVD Recorder is on).***
- ***If you have a Satellite Receiver, the hookup resembles that of a Cable Box. However, you cannot use the GUIDE Plus+® System, so do not connect the G-Link cable.***

Connecting the DVD Recorder with a Cable Box

You should see the Initial Setup menu on the TV screen the first time you turn on the DVD Recorder. Go to pages 4-5 of this Quick-Use Guide to set up the DVD Recorder for the first time.





Your Cable Box may have Audio and Video Out jacks instead of a single ANTENNA OUT, TO TV, or RF OUT jack as shown on page 2 of this Guide. If so, use the Audio and Video Out jacks to connect the Cable Box to your DVD Recorder.

1 **Connect the Cable TV signal to the IN jack on your Cable Box.**

2 **Connect a composite video cable (usually yellow) to the VIDEO OUT jack on the Cable Box. Connect the other end of the same video cable to the yellow VIDEO (CVBS) IN - EXT 2 jack on the Recorder.**

3 **Connect audio cables to the right/left AUDIO OUT jacks on the Cable Box. Connect the other ends of the same audio cables to the Recorder's red/white AUDIO (right/left) IN - EXT 2 jacks.** Match the cable colors to the jack colors.

4 **Connect the supplied audio cables (red/white) to the red/white, right/left AUDIO OUT 2 jacks on the DVD Recorder and to the right/left AUDIO IN jacks on your TV.** Match the cable colors to the jack colors.

5 **Connect the supplied video cable (yellow) to the DVD Recorder's yellow VIDEO (CVBS) OUT 2 jack and to the TV's VIDEO IN jack.**

6 You will need the G-Link cable in order to use the GUIDE Plus+® System. **Connect the supplied G-Link cable to the G-LINK jack on the rear of the DVD Recorder.** (Remove the Demo Pin first if it is still attached to the G-LINK jack.) Place the sensor of the G-Link cable in front of the Cable Box so it faces the remote sensor of your Cable Box. The G-Link cable's sensor should be within one inch of the front of your Cable Box.

7 **Connect the supplied power cord to the MAINS (AC Power) jack on the rear of the DVD Recorder. Connect the power cords of the Recorder, TV, and Cable Box to a power outlet.** The first time you connect the Recorder's power cord, the features of the Recorder will scroll across its display panel. This will stop when you turn on the DVD Recorder's power.

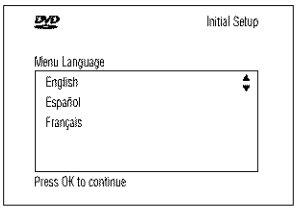
8 **Press STANDBY ⏻ to turn on the DVD Recorder. Set the Recorder to EXT 2 (because those are the jacks to which you connected the Cable Box).** (To get to EXT 2, go to channel 1, then press ▼CH- until you reach the EXT 2 channel.) **Turn on the TV; set it to the Audio/Video In channel.**

- ***If you have a Satellite Receiver, the hookup resembles that of a Cable Box. However, you cannot use the GUIDE Plus+® System, so do not connect the G-Link cable.***

Connecting the DVD Recorder with a Cable Box (with Audio/Video Cables)

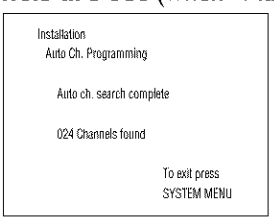
You should see the Initial Setup menu on the TV the first time you turn on the DVD Recorder.
See pages 4-5 of this Quick-Use Guide to set up the DVD Recorder for the first time.

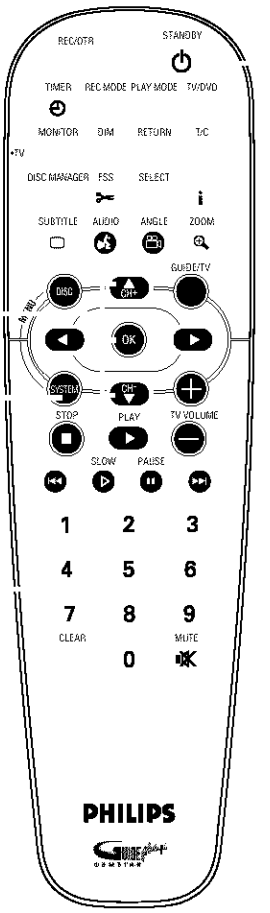
1 **Before you can use your new DVD Recorder, you must complete the Initial Setup.**
Press STANDBY ⏻ to turn on the Recorder. When you turn on the Recorder for the first time, the first Initial Setup menu (for Menu Language) will appear on the TV screen. "IS TV ON? C03" will appear on the Recorder's display panel. This reminds you to turn on the TV and set it to the Video In channel (Video In, Auxiliary, etc., depending on your hookup).



2 **Use the ▲CH+, ▼CH-, and OK buttons on the remote to select items during Initial Setup. Follow the on-screen instructions.**
You will choose languages for different features, choose a TV Shape, and set up TV channels. This will take a couple of minutes, but you must do it before you can use the Recorder. You cannot turn off the Recorder or use any of the buttons on the Recorder until you finish the Initial Setup. The only way to quit is to disconnect the power cord. The Initial Setup will appear again the next time you turn on the Recorder. The menus will not go away until you finish the Initial Setup.

3 **Press SYSTEM MENU to clear the screen when channels are set** (when "Auto ch. search complete" appears).





4 When you finish the Initial Setup, GUIDE Plus+® System information will appear on the TV. **Press OK** to continue.

5 **When "Identifying Your Location" appears, press ▲CH+ or ▼CH- to highlight your country in yellow, then press OK.**

6 **Next, press the Number buttons on the remote to enter your postal zip code, then press OK.**

7 **The next message will ask whether you have Cable TV service. Press ▲CH+ or ▼CH- to choose Yes or No, then press OK.** Choose Yes if you have a Cable TV subscription. Choose No if you have only a regular antenna connected to the DVD Recorder.
If you chose No, go to step 14.
If you chose Yes, go to step 8.

8 **The next message will ask if you connected a Cable Box to the DVD Recorder. Press ▲CH+ or ▼CH- to choose Yes or No, then press OK.**
If you chose No, go to step 14.
If you chose Yes, go to step 9.

9 **Press ▲CH+ or ▼CH- to select your Cable Box output channel, then press OK.**
If you used an RF coaxial cable to connect the Cable Box to the DVD Recorder (as shown on page 2 of this Guide), choose channel 2, 3, or 4. If you used Audio and Video cables as shown on page 3 of this Guide, choose EXT2. If you connected the Cable Box to other jacks of the DVD Recorder, select EXT 1, CAM 1, or CAM 2.

10 Directions for connecting the G-Link cable will appear on the TV screen. **If you have not connected the G-Link cable yet, do so now. Press OK** when the G-Link cable is connected and you are ready to continue. *More connection details are on pages 2-3 of this Guide.*

11 A list of Cable Box brands will appear. **Press ▲CH+ or ▼CH- to select your Cable Box brand, then press OK.** If your brand is not listed, select "Not Listed."

12 You will be advised to **turn on the Cable Box and set it to channel 2.** After doing this, **press OK to continue.**

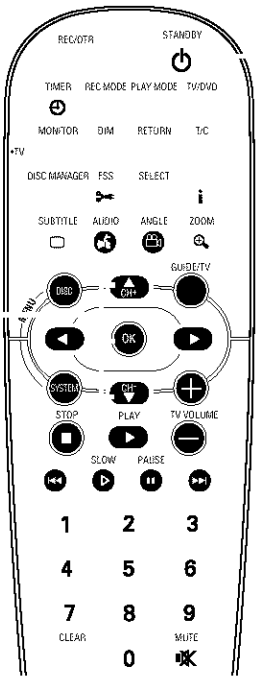
13 The DVD Recorder will start testing codes, which will allow the G-Link cable to change the Cable Box to channel 9. **A message will ask you to confirm whether the Cable Box has changed to channel 9. Press ▲CH+ to select Yes if the Cable Box has changed to channel 9, then press OK.**
If the Cable Box does not change to channel 9, check all connections. Then, press ▲CH+ or ▼CH- to select "Test this code again," then press OK. Or, press ▲CH+ or ▼CH- to choose No, then press OK. The DVD Recorder will try a different code.
Repeat this process as necessary until the Cable Box changes to channel 9. Several codes may have to be tested before the correct one is found.

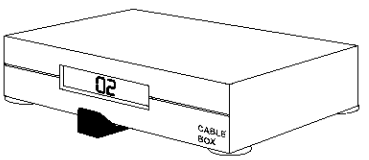
14 The GUIDE Plus+® System settings will appear ("Confirming Your Settings"). **If the settings are correct, press ▲CH+ to choose "Yes, end setup," then press OK.**
If the settings are incorrect, press ▼CH- to choose "No, repeat setup process," then press OK. You will go through the setup screens again. Change any incorrect information.

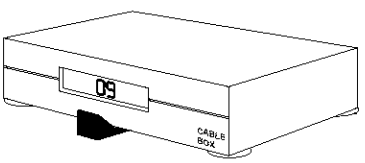
15 Helpful information about the GUIDE Plus+® System will appear. **Press OK to continue.**

16 Another message confirming completion of setup will appear. You will be prompted to press OK to activate "Watch TV." **Press OK. You are finished!**
Within a few seconds, the DVD Recorder will turn itself off, then on again.

17 **Press STANDBY ⏻ to turn off the DVD Recorder. The GUIDE Plus+® System programming information will be available in about 24 hours.** When the Recorder is off, channels will change on your Cable Box. This is normal, as the unit is searching for GUIDE Plus+® System information. For best results, turn off the DVD Recorder overnight so it can receive the GUIDE Plus+® System programming information. Leave the Cable Box turned on.

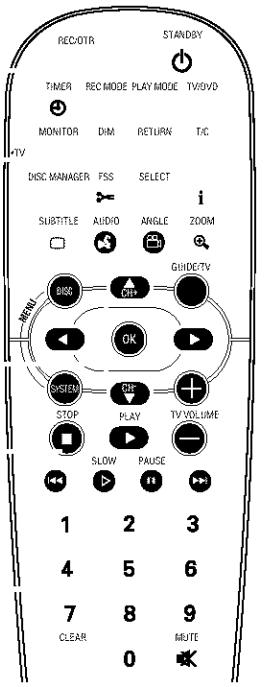






- *You must connect the G-Link cable in order to make programmed recordings with a Cable Box. Otherwise, the DVD Recorder cannot change channels at the Cable Box. The wrong channel may record if you do not use the G-Link cable.*
- *Remember, you cannot use the GUIDE Plus+® System if you connected the DVD Recorder to a Satellite Receiver.*

To quickly record a TV program, follow these steps. See the owner's manual for recording details.



1 **Press OPEN/CLOSE ▲** on the front of the DVD Recorder to open the disc tray. **Insert a recordable DVD+RW or DVD+R, then press OPEN/CLOSE ▲** again to close the disc tray. Place the Disc in the tray with the label facing up and the shiny side facing down. The DVD+RW or DVD+R should have one of the following logos.

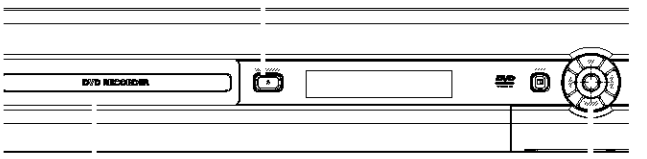
2 **Press ▼CH- to select an empty Title Box/Index Picture in the Index Picture Screen of a DVD+RW.** "Empty title" will appear to the right of the empty Index Picture/Title Box. On a DVD+R, the DVD Recorder records only at the end of the Disc.

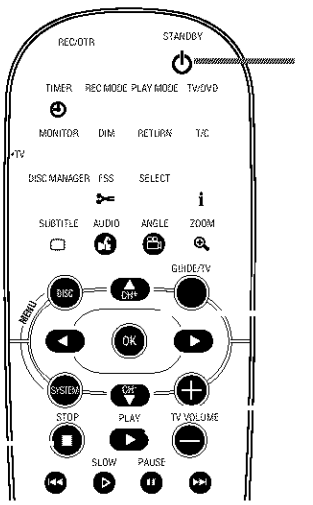
3 **Press MONITOR** to see TV channels at the Recorder.

4 **Press ▲CH+, ▼CH-, or the Number buttons** to select the channel you wish to record.

5 **Press REC/OTR ● to start recording.** Red lights will surround the disc tray and the UP/DOWN/LEFT/RIGHT buttons on the front of the DVD Recorder during recording.

6 **Press STOP ■ to stop recording.** The Index Picture Screen will reappear after a few seconds.





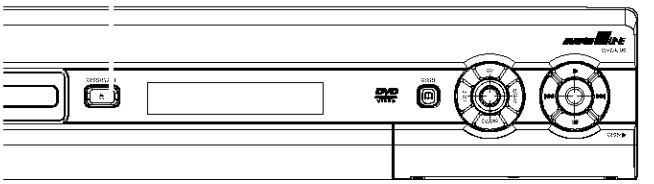
1 **Press STANDBY ⏻ to turn on the DVD Recorder.**

2 **Turn on your TV. Set it to the correct Audio/Video In channel.**

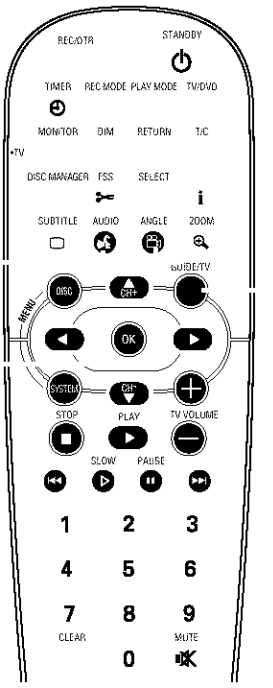
3 **Press OPEN/CLOSE ▲** on the front of the DVD Recorder to open the disc tray. **Put a Disc in the tray**, with the label facing up and the shiny side facing down. **Press OPEN/CLOSE ▲ again to close the tray.**

4 **Play may start automatically. If not, use ▲CH+, ▼CH-, ◄, ►, and OK on the remote to select items in a Disc menu. Or, press PLAY ► to start play.**
(Some DVD Disc menus are accessible only if you press the DISC MENU button on the remote during playback.)

5 **To stop play at any time, press STOP ■.**



Your DVD Recorder has the GUIDE Plus+® System, which lists TV programs available in your area. Use it to select or record TV programs. Complete details are in the accompanying owner's manual.

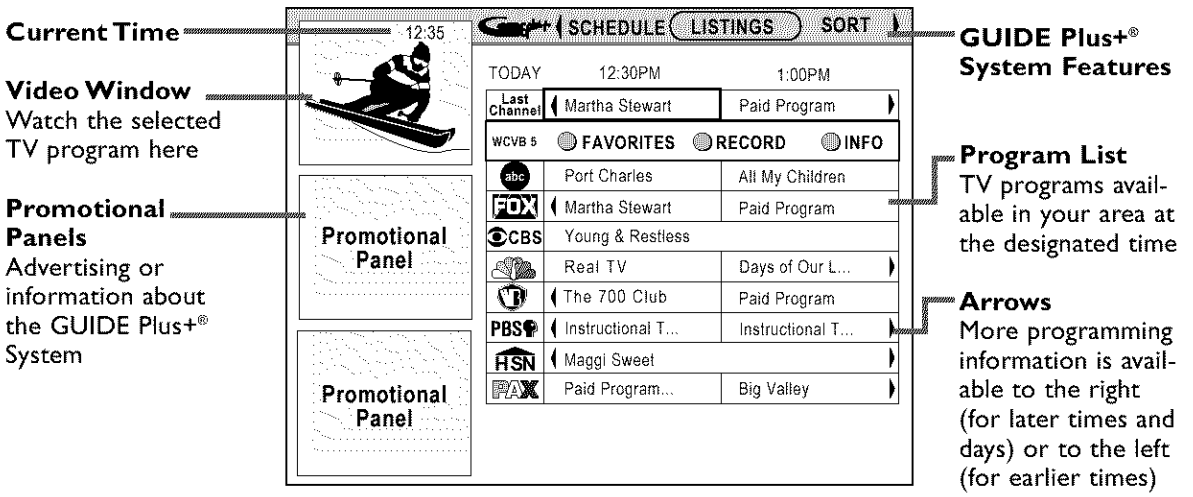


1 **Press GUIDE/TV to see the GUIDE Plus+® System screen.** The TV channel you were viewing will appear in the Video Window in the top left corner of the screen. (To remove the GUIDE Plus+® System screen, press CLEAR or press GUIDE/TV again.)

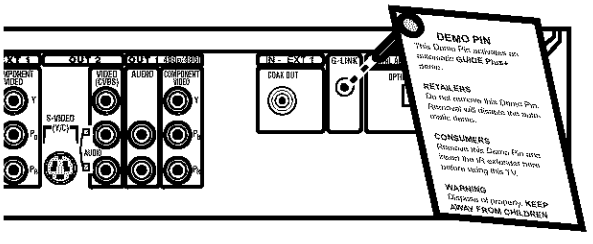
2 **Press ▲CH+ or ▼CH- to select a TV program.** The selected show will appear in the Video Window. **Press OK** to view the selected program and remove the GUIDE Plus+® System screen.
(You can add or delete TV channels to customize the channel list for your area. See the owner's manual for details.)

3 Or, in the top line of the GUIDE Plus+® System screen, you can access different features. **Press ▲CH+ to access the features, then press ◄ or ► to choose:**
LISTINGS: TV programs and their descriptions
SORT: See TV shows by category (Movies, Sports, etc.)
PROMOTIONS: Advertisements for special TV programs
SETUP: Change the settings of the GUIDE Plus+® System
MESSAGES: Messages about the GUIDE Plus+® System, including an identification of your software version. This may be useful if you need assistance or service.
SCHEDULE: Lists planned recordings or Favorite programs

4 **Use the Blue AUDIO button or the Green ANGLE button on the remote** to activate GUIDE Plus+® System features that are marked with a Green or Blue circle. **Or, use the i button** on the remote to see more information about a TV show or feature.



When you first receive the DVD Recorder, a Demo Pin is inserted in the G-LINK jack on the rear of the DVD Recorder. When this pin is in place, the automatic demonstration of the GUIDE Plus+® System will run continuously.
Remove the Demo Pin to stop the demonstration. Grasp the tag near the metal pin and pull the pin out of the G-LINK jack. The demonstration will stop.
You must remove the Demo Pin before you can connect the G-Link cable to the G-LINK jack. This will be necessary if you are using a Cable Box with the DVD Recorder.

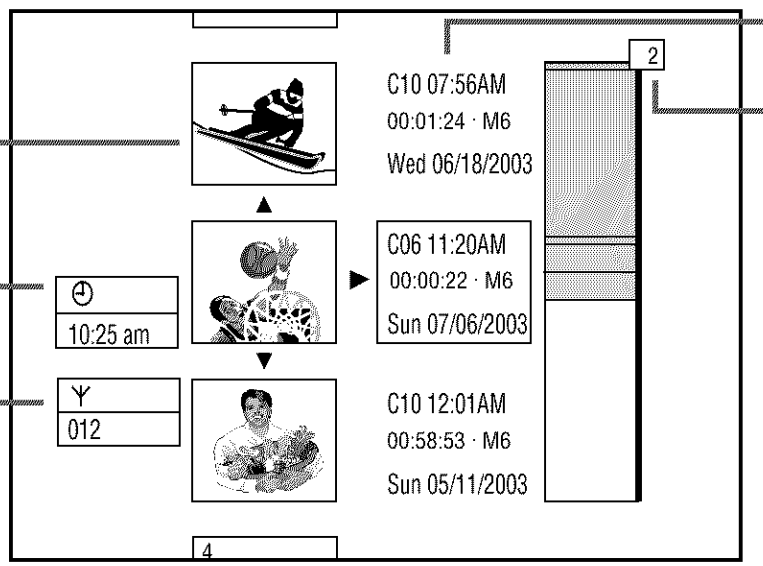


Discs with these logos will play on the DVD Recorder.

- *When you record on a DVD+R with this DVD Recorder, finalize the Disc at the Recorder if you plan to play the Disc on other DVD Players.*

DVDs must be labelled for ALL REGIONS or REGION ONE as shown below. Also make sure your Discs are labelled as NTSC or PAL compatible. These logos and information should appear on the Disc case or on the Disc.

The Index Picture Screen appears when Disc play is stopped. It shows the recordings of a DVD+R or DVD+RW and provides access to editing features for the recordings. For complete details, refer to the accompanying owner's manual.



Index Picture/Title Box
Recording or space available for recording

Timer Information Box
Current time or time/date of next timer recording

Tuner Information Box
Current TV channel or video source (CAM1, CAM2, etc.)

Title description
Program name and details

Disc Pointer
Current Title number and its position within the Disc

Use the System Menu to set up features of the DVD Recorder or Discs. Access the System Menu by pressing the SYSTEM MENU button on the remote. The symbols in the System Menu have these meanings. For details, see the accompanying owner's manual.

User Preferences | **Title/Track** | **Chapter** | **Audio Language** | **Subtitle Language** | **Angle**

Zoom | **Sound Mode** | **Frame-by-frame playback** | **Slow motion** | **Fast motion** | **Time Search**

EL6559E001
Printed in Hungary

DVD Recorder

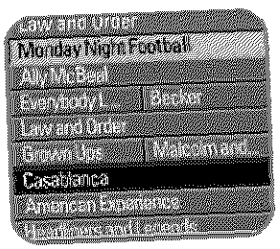
Ultimate DVD Recording with Point & Click Programming.

Best Picture

- **Faroudja Progressive Scan output:** *For razor-sharp pictures*
- **Real-time MPEG2 Variable Bit-Rate video encoder:** *For artifact-free DVD recording*
- **i.LINK digital connection:** *For perfect copies of home videos*
- **Component Video Inputs:** *For the best digital recording quality*
- **Virtual Time Base Corrector:** *For better-than-original copies of old video tapes*
- **Motion-compensated Noise Filter**

Best Sound

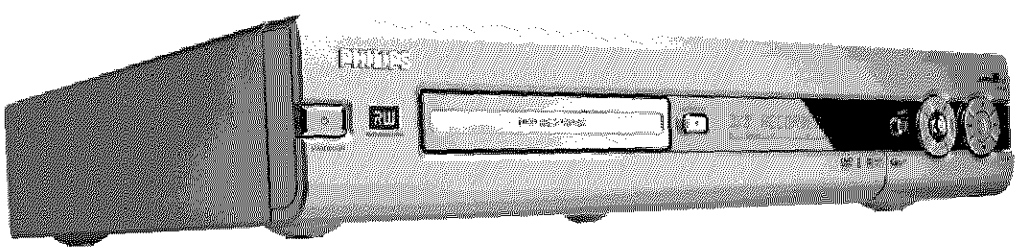
- **2-channel Dolby Digital encoder:** *For perfect recording of stereo and Dolby Pro Logic audio*
- **24-bit digital-to-analog conversion:** *For top quality sound*



Guide Plus+® listings screen.

Great Convenience

- **Guide Plus+® on-screen TV Program Guide:** *For the ultimate timer programming*
- **On-screen Gemstar TV Guide:** *For the ultimate timer programming*
- **Recorded discs play on DVD players**
- **Up to 8 hours video recording:** *Per side*
- **Index Picture Screen:** *For visual Table Of Contents*
- **Favorite Scene Selection:** *For easy editing of your home movies*
- **Disc Manager:** *For instant overview of all your discs*
- **Sat Mouse included:** *To control your Set Top Box*



PHILIPS

DVD Recorder

Standard product information

Disc types

	Playback	Recording
DVD+RW	•	•
DVD+R	•	•
DVD-R/-RW, video mode	•	—
DVD-Video	•	—
Super VCD	•	—
Video CD	•	—
Audio CD	•	—
MP3 CD, DVD	•	—
CD-R/RW	•	—

Video Format

Digital compression: DVD, SVCD: MPEG2; VCD: MPEG1

Mode	Rec. time	Resolution	Bit rate Video (Mbit/s)	Bit rate Audio (kbit/s)
1h	60'	D1	9.72	384
2h	120'	D1	5.07	256
2.5h	150'	D1	4.06	256
3h	180'	1/2 D1	3.38	256
4h	240'	1/2 D1	2.54	256
6h	360'	1/2 D1	1.70	256
8h	480'	SIF	1.27	128

Resolution H x V (pixels)	60Hz
Full D1 (DVD-Video)	720[1] x 480
Half D1	360[2] x 480
SIF (VCD)	352 x 240

[1] equivalent to 500 analog TV lines
[2] equivalent to 250 analog TV lines

TV Standard

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

Video Performance

DA Converter	10 bit
AD Converter	9 bit
Signal handling	Components
Video (CVBS) out	1 V_{pp} into 75 ohm
S-video (Y/C) out	Y: 1 V_{pp} into 75 ohm C: 0.286 1V_{pp} into 75 ohm
Component/Progressive video out (YP_BP_R)	Y: 1 V_{pp} into 75 ohm P_B: 0.7 V_{pp} into 75 ohm P_R: 0.7 V_{pp} into 75 ohm

Audio Format

	Playback	Recording
Compressed digital		
• Dolby Digital (AC-3)	5.1-channel*	2-channel 16-bit, 48kHz
• DTS, MPEG2	5.1-channel*	—
• MPEG1, MP3	2-channel	—
SPDIF		
• PCM	2-channel 16/20/24 bit 48/96 kHz	—

*6.1-channel compatible

Audio Performance

DA Converter	24 bit
AD Converter	16 bit
Signal / Noise (1kHz)	95 dB
Dynamic range (1kHz)	85 dB
Crosstalk (1kHz)	95 dB
Distortion / Noise (1kHz)	85 dB

Front Connections

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

Rear Connections

Component video in	Cinch (green/blue/red)
Progressive Scan/ Component video out	Cinch (green/blue/red)
S-video in	Hosiden 4-pin
S-video out	Hosiden 4-pin
Video in	Cinch (yellow)
Video out	Cinch (yellow)
Audio L/R in (2x)	Cinch (white/red)
Audio L/R out (2x)	Cinch (white/red)
Digital audio out	Coaxial, optical
RF antenna in	Coaxial 75 ohms (F type)
RF TV out	Coaxial 75 ohms (F type)
Mains	Standard (IEC type)

User Interface

OSD languages	English, French, Spanish

Electronic Program Guide

EPG	GUIDE Plus+
Number of events	6; 1 year; daily/weekly
Timer programming	EPG/Manual
Set Top Box control	Sat Mouse (Infra Red Blaster)

Disc Manager

- Stores library of at least 1000 DVD+RW/+R titles
- Ordering alphabetical, chronological or by disc
- Finding of titles and empty spaces

Functionality

- 3D sound
- Automatic Screen Saver
- Backup Presets & Timer Events: 1 year
- Backup Clock & Calendar: 5 hrs
- Time & Date Download
- Automatic Audio Recording Level Control

Recording functions

- Safe Record
- One-Touch Record (OTR)
- Append
- Divide
- Erase
- Automatic/Manual Chapter Marker insertion
- Disc write protection
- Favorite Scene Selection
- Index Picture Screen for instant content overview
- Selectable Index Pictures

DVD/CD playback

- Fast Forward/Backward (3 speeds)
- Step Forward/Backward
- Slow (3 speeds)
- Direct Title / Track access
- Next / Previous Title / Track / Chapter
- Repeat (Chapter / Title / All) or (Track / All)
- A-B Repeat
- Shuffle
- Intro Scan
- Time Search
- Zoom (1.33x, 2x, 4x) with picture enhancement
- Auto Resume (20 discs)

Power Supply

Mains:	polarised (IEC)
Power supply:	90..140 V_{AC} (120 V nom) 50/60 Hz
Power consumption	Operation 31 W Low-power standby 7 W

Cabinet

Dimensions (W x H x D)	435 x 76 x 335mm
Net Weight	4.0 kg
UPC	0 3784993380 0

Remote Control

- 46-key remote control

Package Contents

- DVD Recorder
- Remote Control + batteries
- Sat Mouse
- User Manual in English
- DVD+RW disc
- AC power cable
- Stereo audio cable
- Video cable
- S-video cable
- Coax digital audio cable
- Coax RF antenna cable

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