

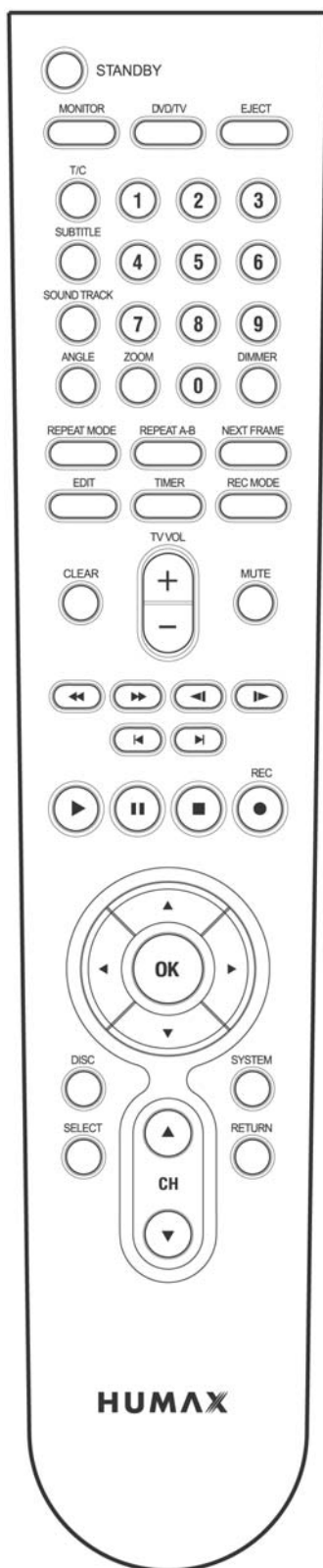
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The remote control



STANDBY

Switch on or off: To switch the recorder set on or off, interrupt menu function, interrupt a programmed recording (TIMER).

MONITOR

Monitor: This button lets you switch between the (internal) TV tuner in the DVD recorder (TV picture on the TV set) and playback on the DVD recorder.

TV/DVD

TV/DVD switch: Switches the scart socket **EXT 2 AUX I/O** directly to the TV set. This lets you watch the picture from any unit connected to this scart socket (set-top box', video recorder or satellite receiver) and at the same time record from another source.

If you have not connected a device to scart socket **EXT 2 AUX I/O** you can use this button to switch between TV reception and DVD recorder. This, however, functions only if you have connected your TV set to the DVD recorder using a scart cable (socket **EXT 1 TO TV-I/O**) and your TV set reacts to the switching.

EJECT

Eject: Tray open/close.

T/C

Title/Chapter: Choose the 'T'(Title)'/C'(Chapter) directly from the menu bar.

SUBTITLE

Subtitle: Change the subtitle language.

SOUNDTRACK

Soundtrack: Change the audio track(language).

ANGLE

Angle: Change the camera angle.

ZOOM

Zoom: Activate zooming feature.

DIMMER

Dimmer: Change the brightness of the front display.

0..9

Number buttons: 0 - 9.

REPEAT MODE

Playback type: Choose between repeat, shuffle play and intro-scan.

REPEAT A-B

Repeat sequence: Repeat a certain sequence within a title/chapter.

NEXTFRAME

Next frame: Shows the next frame while the title is playing.

EDIT

Edit: For displaying the edit menu for DVD+R(W) discs, for setting chapter markers.

TIMER












Timer: Program recordings, or alter/clear programmed recordings.

REC. MODE

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

CLEAR

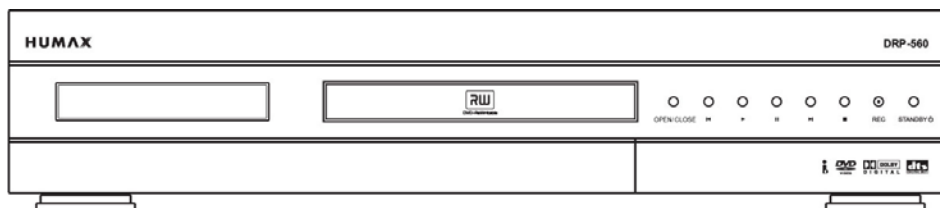
Clear: To delete last entry or clear programmed recording (TIMER).







	Reverse Search: Search the disc x4/x8/x32 speed backward.
	Forward Search: Search the disc x4/x8/x32 speed forward.
	Reverse Slow motion: Change playback speed 1/2, 1/4, 1/8 backward.
	Forward Slow motion: Change playback speed 1/2, 1/4, 1/8 forward.
	Select previous title: Press the button during playback: Previous chapter or previous title.
	Select next title: Press the button during playback: Next chapter or next title.
	Play: Playback a disc.
	Pause: If this button is pressed during playback, the DVD recorder switches to pause. If this button is pressed during recording, the DVD recorder will also switch to pause.
	Stop: Stop playback / recording, except with programmed recordings (TIMER).
	Record: Record the current TV channel.
OK	Store/confirm: To store or confirm entry.
	Cursor keys: Left, right, up, down.
DISC	Disc: To show the DVD menu or the index screen.
SYSTEM	System: Call up/cancel the main menu (menu bar at the left of the screen).
SELECT	Select: Select function/value.
RETURN	Back: Return to previous menu on a video CD (VCD). This function works also on some DVD's.
CHANNEL +	Plus: Next programme number
CHANNEL -	Minus: Previous programme number

■ Additional TV functions

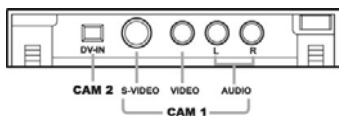
TV VOLUME +	TV volume: Increase TV volume (Supports only RC-5 remote control code)
TV VOLUME -	TV volume: Reduce TV volume (Supports only RC-5 remote control code)
MUTE	Mute: TV volume mute (Supports only RC-5 remote control code)

Front of the device



STANDBY 	Switch on or off: To switch off or on, interrupt a function, interrupt a programmed recording (TIMER).
REC	Record: Record the current TV channel.
OPEN/CLOSE	Open/close disc tray: Open/close disc tray.
	Select previous title.
	Select next title.
	Stop: Interrupt playback/recording.
	Play: Playback a disc.
	If this button is pressed during playback, the DVD recorder switches to pause. If this button is pressed during recording, the DVD recorder will also switch to pause.

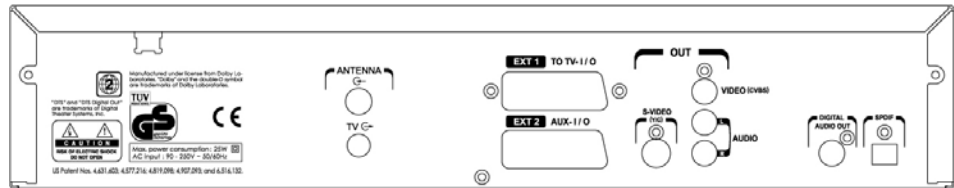
Behind the flap at the right-hand corner on the front



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

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

Back of the unit



~ MAINS	Mains socket: Connection to the mains supply (90~250 V, 50/60 Hz).
ANTENNA	Aerial input: Connection of the aerial.
TV	Aerial output: Connection of the TV set.
EXT 1 TO TV-I/O	Scart socket 1: Connection of a TV set. RGB- output.
EXT 2 AUX I/O	Scart socket 2: Connection of an additional device (satellite receiver, set-top box, video recorder, camcorder, etc.) .
OUT S-VIDEO (Y/C)	S-Video output: Connection of an S-Video compatible TV set.
OUT VIDEO (CVBS)	Video output (yellow socket): Connection of a TV set with a video input (CVBS, Composite Video).
OUT L AUDIO R	Analogue audio output (white/red socket): Connection of a TV set with audio input sockets or connection of an additional device.
DIGITAL AUDIO OUT	Digital audio output: Connection of a digital audio device (amplifier/receiver).
OPTICAL AUDIO OUT	Optical audio output : Connection of a digital audio device (amplifier/receiver).

The symbols on your DVD recorder display

These symbols can light up on your DVD recorder display:

TITLE	Displays the title number selected/played (DVD)
TRACK	Displays the track selected/played (VCD/CD)
DVD DVD+R DVD+RW	Displays the inserted DVD disc: DVD / DVD+R / DVD+RW. Disc types 'DVD-R / DVD-RW ' are shown as DVD.
CD VCD SVCD	Displays the CD-disc inserted: CD / VCD / SVCD

HQ / SP / LP / EP / EP+	Displays recording type (Quality) / 'HQ, SP, LP, EP, EP+'.
CHAPTER	Displays the chapter selected/played
TOTAL TIME	Total playback time
REMAIN TIME	Time remaining
TIME	Time used
DTS	A DTS audio signal is available on the digital audio output
DIGITAL	A Dolby digital audio signal is available on the digital audio output
MPEG	An MPEG audio signal is available on the digital audio output
PCM	A PCM audio signal is available on the digital audio output
PRE	Pre-programme number
EXT CAM	Indicates external or camcoder input
▶	Playback in progress
 	Playback/record interrupted (Pause)
REC	Recording in progress
•))	A valid remote control signal or front button press detected.
TIMER	A recording (timer) has been programmed
VPS/PDC	Video programming system / programme delivery control: A VPS or PDC code will be transmitted for the selected TV program
00000000	Multi-function display/Text line <ul style="list-style-type: none"> • Clock • Disc/title playing time. • OTR switch-off time. • Display of programme number of TV channel/position/channel name/function. • Display of information, warnings.

Messages in the DVD recorder display

The following messages may appear in your DVD recorder display

<i>SETUP</i>	The DVD recorder is currently in the initial installation mode. Switch on your TV set and read section 'Installing your DVD recorder' in chapter 'Initial Installation'.
<i>NO S I9</i>	No input signal available (signal inadequate or unstable)
<i>OPEN</i>	Disc tray opening
<i>CLOSE</i>	Disc tray closing
<i>NO COPY</i>	You have tried to copy a copy-protected DVD/video cassette.
<i>BUSY</i>	Please wait until this message disappears. The DVD recorder is busy performing a task.
<i>NO d ISC</i>	No disc has been inserted for recording. If a disc has been inserted, perhaps it cannot be read.
<i>INFO</i>	Information on the inserted DVD is displayed on the screen
<i>rREADY</i>	The disc inserted is either new or has been completely erased (no recordings).
<i>d ISCFULL</i>	The disc is full. There is no space for new recordings.
<i>PAL d ISC</i>	A disc with PAL recordings has been inserted. The machine is trying to record an NTSC signal. Insert a new disc or one that contains NTSC recordings.
<i>NTSC d ISC</i>	A disc with NTSC recordings has been inserted. The machine is trying to record a PAL signal. Insert a new disc or one that contains PAL recordings.
<i>d ISC Err</i>	An error occurred when the title was being written. If this error keeps occurring, please clean the disc or use a new one. You will find information on how to clean the disc in the next chapter in the section 'Cleaning the discs'.
<i>EASyL INH</i>	The 'EasyLink' function is currently transferring information from the TV set.
<i>P IN</i>	The access control feature is activated and you must enter the four-digit code.

1 Introduction

Dear Humax customer,

These are icon conventions we will use throughout this manual.



Excuse me?

Excuse me?

Here I will be explaining seemingly unimportant things.



Tip

Tip

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



Problem

Problem

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



For experts

For experts

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

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

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

The machine should **not be placed in a warm room** immediately after transport from a cold room or vice versa. The machine should not be switched on if humidity is very high. Wait at least **three hours** after transporting the machine. The DVD recorder needs this time to acclimate itself to the new environment (temperature, relative humidity, etc.).

■ **What is a DVD?**

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

■ **How good is the resolution of DVD compared with VHS?**

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

■ **What can DVD+RW do?**

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

■ **What can the DVD+R do?**

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

■ What can my DVD recorder do?

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

- Existing DVD video discs can be played on the recorder.
- Recordings made on your DVD recorder can be played on other DVD video players and DVD ROM drives.

|| Which discs you can use

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

- Few discs may not be playable or recordable depending on the disc manufacturer.

■ Playback and recording



DVD+RW (Digital Versatile Disc + Rewritable)



DVD+R (Digital Versatile Disc + Recordable)

■ Playback only:



DVD Video (Digital Versatile Disc)



DVD-R (DVD-Recordable)



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



Audio CD (Compact Disc Digital Audio)



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



Video CD (format 1.0, 1.1, 2.0)



Super Video CD



CD-R (CD recordable) Audio/ MP3 contents



CD-RW (CD rewritable) Audio/ MP3 contents

Regional code

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



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

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

Regional code 2 includes:

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

Technical data

Voltage: 90-250V, 50/60Hz

Power consumption: 25W

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

Measurements in cm (W/H/D): 43.0/8.3/36.4 (Disc tray closed).

Weight without packaging approx.: 4.6 kg

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

Operating position: maximum 10 degree inclination in all directions

Ambient temperature: 15°C - 35°C

Humidity: 25% - 75%

Accessories

Operating Manual

Quick install guide

Remote control and batteries

Aerial cable

Scart cable (AV-Euro cable)

Audio cable (Cinch cable with red/white connector)

Video cable (Cinch cable with yellow connector)

DVD+RW disc



|| Important Safety Instruction

Caution:

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

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

LASER

Type: InGaAIP (DVD), AlGaAs(CD) semiconductor laser

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

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

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

Danger. High voltage! Do not open.

You run the risk of getting an electric shock.

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

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

If you disconnect the DVD recorder from the mains, make sure to pull out the mains plug from the wall outlet. Children playing near the device could suffer injuries at the free end of the cable.

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

Please dispose of old batteries safely.

Please take the packaging to your local recycling centre.

This electronic equipment contains a large number of materials that can be recycled. If you are disposing of an old machine, please take it to a recycling centre.

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

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

The apparatus shall not be exposed to dripping or splashing and make sure that no objects filled with liquids, such as vases, shall be placed on the apparatus.

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

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

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

|| Cleaning the discs

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

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

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

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

Therefore, refrain from using a CD lens cleaner disc!



Excuse me?

|| Special functions of your new DVD recorder

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



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



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



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



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



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



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



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

These music CDs can be played on this machine.



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



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

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

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



"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.



"US Patent Nos. 4,631,603; 4,577,216; 4,819,098; 4,907,093; and 6,516,132."

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



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

2 Connecting the DVD recorder

Important information for customers in Great Britain

This set is fitted with an approved moulded 13 amp plug. To change the fuse in this plug or to attach a different plug, please proceed as follows:

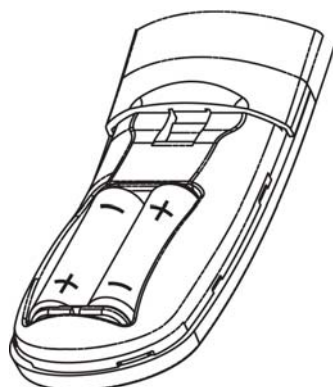
1. Take off the fuse cover and remove the old fuse.
2. Insert a new fuse. Suitable fuses are those of the type BS 1362 3A, A.S.T.A. standard or BSI standard.
3. Close the fuse cover.

If the attached plug does not meet your requirements, you can cut it off and replace it with a suitable plug. Please observe the following conditions:

1. If your new plug uses a built-in fuse, this should be a 3A fuse.
2. If your new plug does not contain a built-in fuse, please do not use any fuses in your fuse box with a rating of more than 5A.
3. Please destroy the old, cut-off plug so that it cannot be used elsewhere.
4. Connect the blue cable (neutral "N") to the terminal in the plug which is marked with the letter "N" or
5. Connect the brown cable (live, "L") to the terminal in the plug which is marked with the letter "L" or coloured red.
6. Do not in any circumstances connect either of the two cables to the terminal in the plug which is marked with the letter "E", the symbol \perp or coloured green or green / yellow.

Before you refit the plug cover, make sure, that the grip at the bottom of the plug is clamped over the plastic cover of the lead, not just over the two wires.

Preparing the remote control for operation



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

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

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

'Aim' correctly

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



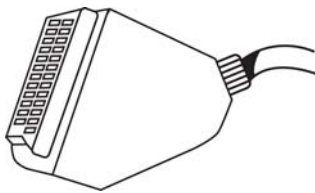
Tip

The remote control unit is easily damaged by mechanical stress such as pressure and shock. Take the precautions not to sit on it or drop it on the floor.

Connecting your DVD recorder to the TV set

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

Connect the DVD recorder **directly** to your TV set. If there is a video recorder in between the picture quality may be poor because of the copy protection system built into the DVD recorder. We recommend that you use a scart cable to connect your TV set and DVD recorder.



What is a scart cable?

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



Excuse me?

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

'Connecting with a scart cable and Easy Link'

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

What is Easy Link?

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



Excuse me?

'Connecting with a scart cable without Easy Link'

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

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

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

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

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



Excuse me?

'Connecting with video (CVBS) cable'

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

What is 'Video(CVBS)'?

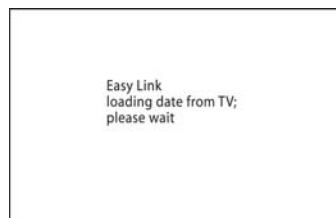
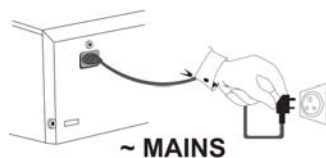
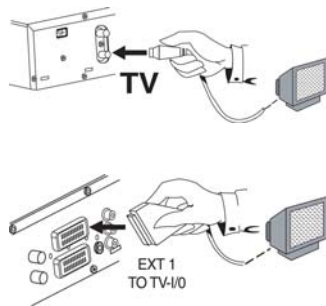
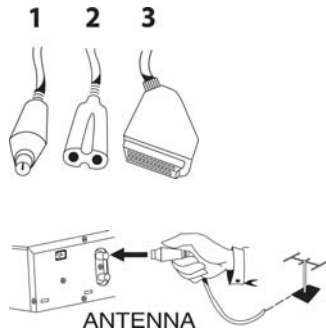
This socket, usually referred to as the Cinch socket, is used for transmitting the composite video signal (FBAS, CVBS). In this method of transmission the colour signal and the brightness signal are transmitted on the same cable. In certain circumstances, this can lead to problems with the picture, such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



Excuse me?

Connecting with a scart cable and 'Easy Link'

*easy*LINK



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

Have the following cables ready:

an aerial cable (1, supplied), a mains cable (2, supplied), a special (full) scart cable (3, suitable for Easylink).

1. Switch off your TV set.
2. Remove the aerial cable plug from your TV set. Insert it into the **ANTENNA** socket at the back of the DVD recorder.
3. Insert one end of the supplied aerial cable into the **TV** socket at the back of the DVD recorder and the other end into the aerial input socket at the back of the TV set.
4. Plug a special (full) scart cable (for Easylink) into the scart socket **EXT 1 TO TV-I/O** at the back of the DVD recorder and the corresponding scart socket at the back of the TV set (see TV set operating instructions).
5. Switch on the TV set.
6. Insert the power cable into the wall socket.
7. A message appears on the screen announcing that the transfer has started. **'EASYLINK'** appears on the display during transfer.
The TV set transfers all stored TV channels, in the same order, to the DVD recorder.
8. After the data transfer has been completed, the following appears on the screen:
'EasyLink loading complete'.

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

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

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



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

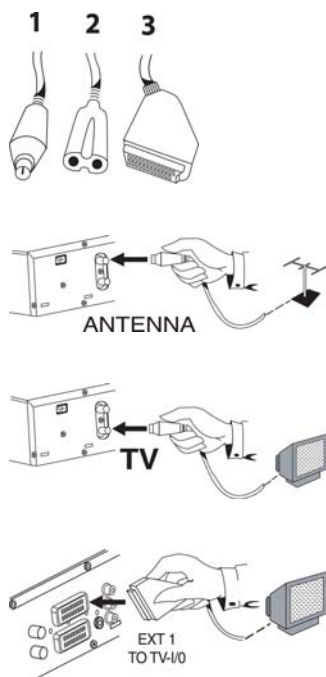
Not all the necessary data has been transferred. Please enter the settings by hand as follows. For more information on the various functions see 'Initial installation' in 'Installing your DVD recorder'.

1. Select the desired audio language using **▼** or **▲** and confirm with **OK**.
2. Select the desired subtitle language with **▼** or **▲** and confirm with **OK**.
3. Select the desired picture format using **▼** or **▲**.
'4:3 letterbox' For a 4:3 TV set; cinema format (black bars above and below the picture)
'4:3 panscan' For a 4:3 TV set; full height format with the sides cut off
'16:9' For a 16:9 TV set
4. Confirm with **OK**.
5. Select your country with **▼** or **▲**.
If your country does not appear, select '**Other**'.
6. Confirm with **OK**.



Initial installation is now complete.

Connecting with a scart cable without 'Easy Link'



Have the following cables ready:

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

1. Remove the aerial cable plug from your TV set. Insert it into the **ANTENNA** socket at the back of the DVD recorder.
2. Insert one end of the supplied aerial cable into the **TV** socket at the back of the DVD recorder and the other end into the aerial input socket at the back of the TV set.
3. Plug a scart cable into the scart socket **EXT 1 TO TV-I/O** at the back of the DVD recorder and the scart socket for the DVD recorder at the back of the TV set (see TV set operating instructions).

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

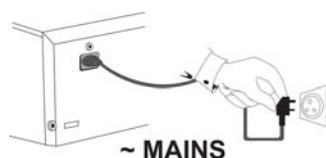
Select the scart socket that is suitable for both video output and for video input.

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

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



4. Switch on the TV set.
5. Insert the power cable into the wall socket. **'SETUP'** will appear on the display.
6. If the connection was properly made and your TV was **automatically switched** to the programme number for the scart socket, e.g. 'EXT', '0', 'AV', you will see the following picture:



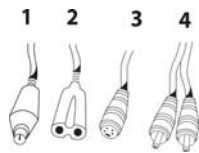
* My screen is empty.

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



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

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



Have the following cables ready:

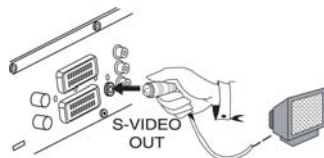
an aerial cable (1, supplied), a mains cable (2, supplied), an S-Video (SVHS) cable (3), an audio cable (4, supplied, red/white plug).



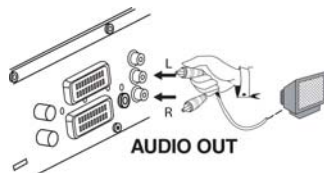
1. Remove the aerial cable plug from your TV set. Insert it into the **ANTENNA** socket at the back of the DVD recorder.



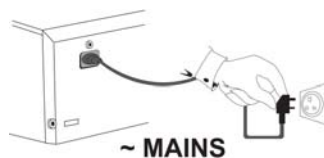
2. Insert one end of the supplied aerial cable into the **TV** socket at the back of the DVD recorder and the other end into the aerial input socket at the back of the TV set.



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



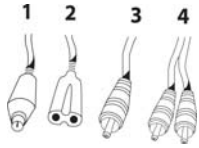
4. Insert one end of the supplied audio (Cinch) cable into the red/white Cinch socket **OUT L AUDIO R** at the back of the DVD recorder and the other end into the audio input socket (usually red/white) on the TV set (usually labelled 'Audio in' or 'AV in'. See TV operating instructions).



5. Switch on the TV set. Switch the TV set over to this input socket or select the relevant channel number. Please see your TV's operating instructions for the channel number you need.
6. Insert the power cable into the wall socket. **SETUP** will appear on the display.

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

Connecting with video (CVBS) cable

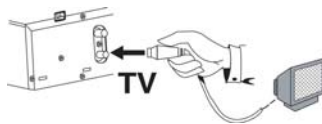


Have the following cables ready:

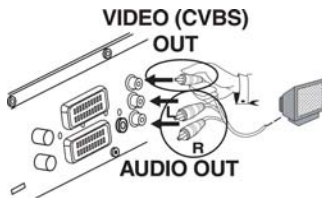
an aerial cable (1, supplied), a mains cable (2, supplied), a video (CVBS) cable (3, supplied, yellow plug), an audio cable (4, supplied, red/white plug).



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



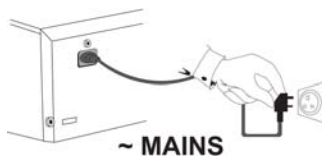
2. Insert one end of the supplied aerial cable into the **TV** socket at the back of the DVD recorder and the other end into the aerial input socket at the back of the TV set.



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

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

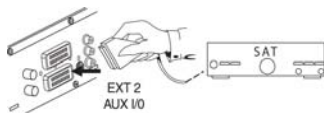
5. Switch on the TV set. Switch the TV set over to the Video/Audio input socket or select the relevant programme number. Please see your TV's operating instructions for the programme number you need.



6. Insert the power cable into the wall socket. **'SETUP'** will appear on the display.

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

Connecting additional devices to the second scart socket



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

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

■ Connecting additional video recorders

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

Please note:

Most pre-recorded video cassettes and DVDs are copy-protected. If you try to copy them you will see the message **'NO COPY'** on the DVD recorder's display.

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

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

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

- This happens if you try to copy DVDs or video cassettes that have been copy-protected. Even though the picture on the TV is fine the recording on a DVD+R(W) is faulty. This interference is unavoidable with copy-protected DVDs or video cassettes.



Connect camcorder to the front sockets

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

■ Best Picture Quality

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

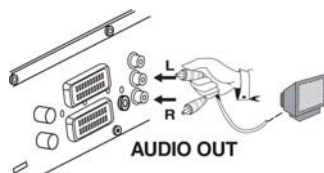
■ Very good Picture Quality

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

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

■ Good Picture Quality

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



Connecting audio devices to the analogue audio sockets

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

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

These can be used to connect the following:

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

Can I connect the audio output to the 'Phono' input on my A/V amplifier?

'Phono' input is designed only for outputs without preamplifiers. Do **not** use 'Phono' input to connect the audio output of the DVD recorder.

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



Excuse me?

Connecting audio devices to the digital audio socket



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

These can be used to connect the following:

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

Digital multi-channel sound?

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



Excuse me?

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

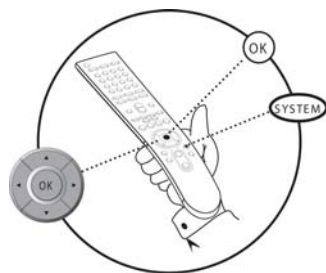
The receiver is not compatible with the digital audio format of the DVD recorder. The audio format of the DVD disc is displayed in the status window when you switch to another language. Playback in six-channel digital surround sound is only possible if the receiver has a digital multi-channel sound decoder.



Problem

3 Installing your DVD recorder

Initial installation



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

Aim correctly with the remote control

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

Connecting additional devices

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

No aerial connected

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



Tip



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

What is an on-screen menu?

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



Excuse me?

2. Confirm with **OK**.



3. Select the desired audio language using ▼ or ▲ .

What is an audio language?

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



Excuse me?

4. Confirm with **OK**.



5. Select the desired language for the subtitles by pressing ▼ or ▲ .

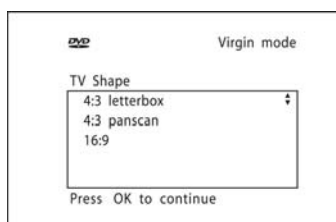
What is the subtitle language?

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



Excuse me?

6. Confirm with **OK**.



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

Which screen formats can I select?

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



Excuse me?

8. Confirm with **OK**.



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

Why do I have to set the country?

To call up the specific settings for the respective country.



Excuse me?

10. Confirm with **OK**.

11. After you connect the aerial (or cable TV, satellite receiver, etc.) to the DVD recorder, press **OK**.

'Autoinstall' starts.

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

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



Problem

12. Wait until all available TV channels have been found. This can take several minutes.
13. When AUTOINSTALL is complete, '**Autoinstall complete**' will briefly appear on the TV screen.
14. To end, press **SYSTEM**.

The initial installation is now complete.

Check the date and time. Please read 'Setting the time and date' in this chapter.

Satellite receiver

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

Decoder

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



|| Using a satellite receiver

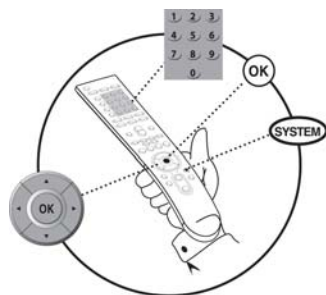
TV channels from a satellite receiver (connected to scart socket **EXT 2 AUX I/O**) are received on the DVD recorder on programme number '**EXT2**'.

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

Optionally, after pressing **MONITOR** to switch to the internal tuner, you can jump into '**EXT1**' by pressing '**0**'. Now select programme number '**EXT2**' by pressing **CHANNEL +** or **CHANNEL -**.

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

Allocating a decoder



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

How do I allocate the decoder for Easy Link?

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



Excuse me?

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

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

How can I switch the decoder off again?

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

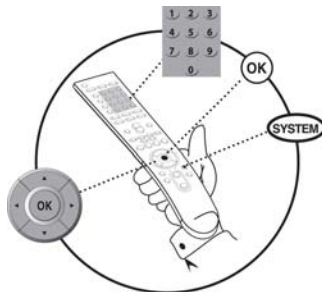


Excuse me?

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

Your decoder has now been allocated to this TV channel.

Manual TV channel search



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

Manual search with EasyLink

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



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

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

What is hidden behind the settings?

'**Freq.**': Display/entry of frequencies

'**CH**': Display/entry of channels

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

What is a special channel?

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



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

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

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



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

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

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



Tip

What is NICAM?

NICAM is a digital sound transmission system. Using NICAM, you can transmit either 1 stereo channel or 2 separate mono channels. However, if reception is poor and the sound distorted you can turn off NICAM. In '**NICAM**', select '**Off**' using ◀ or ▶ .

How can I improve the automatic process for storing channels?

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

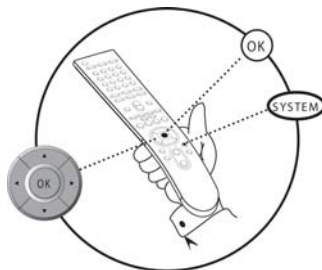
Using ◀ or ▶ you can try to fine-tune the TV channel manually.



For experts

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

Automatic TV channel search (Autoinstall)



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

What does Easy Link do?

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

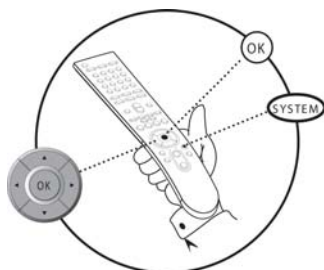


1. Switch on the TV set. If required, select the programme number for the DVD recorder.
2. Switch on the DVD recorder using **STANDBY/ON**.
3. Press the **SYSTEM** button on the remote control. The menu bar will appear at the top of the screen.
4. Select 'T₁' using ▼ or ▲.
5. Select line '**Installation**' using ◀ or ▶ and confirm with ▼.
6. Select line '**Automatic Search**' using ▼ or ▲.
7. Press ▶.
8. 'Autoinstall' starts. Wait until all TV channels have been found. This can take several minutes.
9. When Autoinstall is completed, '**Autoinstall complete**' will appear on the TV screen.
10. Date and time have been set and saved.
11. To end, press **SYSTEM**.



You can read about how to search for a TV channel manually in section 'Manual TV channel search'.

Sorting and clearing TV channels manually



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

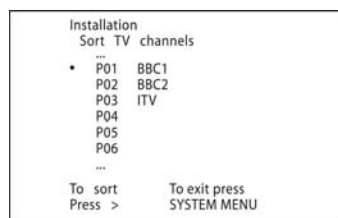
What does Easy Link do?

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



Excuse me?

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



Deleting TV channels

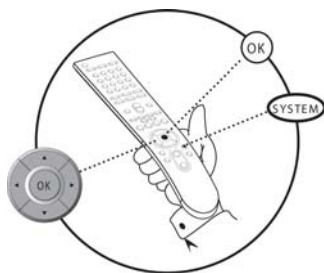
Unwanted channels or those with poor reception can be deleted using **CLEAR**. After that you can continue at step ⑥.



Tip

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

Setting the language/country



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

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



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

Which settings can I choose?

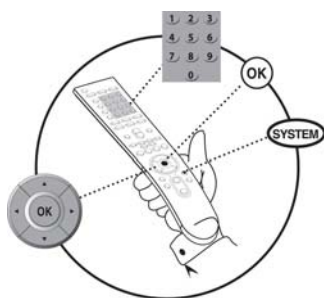
Audio Language:	Playback language (audio language)
Subtitle:	Subtitle language
Menu:	Language of the OSD menu
Country:	Location (country)



Tip

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

Setting the time and date



If the display shows an incorrect time or '--:--', the time and date must be reset manually.



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

4 Information on the TV screen

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

Icons in the menu bar

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

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

Menu bar 1







	User preferences
	Title/Track
	Chapter/Index
	Audio language

Menu bar 2

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



	Subtitle language
	Camera angle
	Zoom
	Sound

Menu bar 3













To display menu bar 3, press ▼ while menu bar 2 is displayed.



	Search by time
---	----------------

Temporary feedback icons







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

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









Status box

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

Disc type icons




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

■ Operating mode icons

 rec	Record
 stop	Stop
 play	Playback
 pause	Pause play
 pause	Record pause
 8x	Search forwards (8x speed)
 8x	Search backwards (8x speed)
 slow	Slow motion




|| Tuner info box

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

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

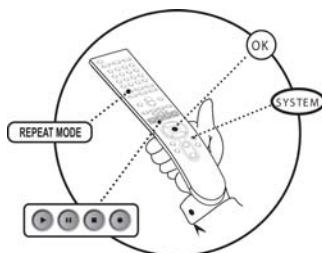
|| Timer information box

This box appears above the tuner information box. When a timer recording is set, it shows the timer icon and the start time or date of the first programme to be recorded. If no timer recording is scheduled, the current time is displayed. This box disappears during playback of a disc or after a recording starts.

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

5 Playback

Playback hints



This DVD recorder will play the following systems:

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

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

Inserting a disc



1. Press the **OPEN/CLOSE** button on the front. The disc tray opens. The dialog box shows **'OPEN'**.
2. Insert the disc carefully into the tray, with the label uppermost and press **OPEN/CLOSE**. The dialog box shows **'CLOSE'**. The information on the disc is read.

How do I insert a double-sided DVD?

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



Excuse me?

Opening/closing the tray using the remote control

You can open and close the disc tray using the remote control. Press **EJECT** button on the remote control. The dialog box shows **'OPEN'** or **'CLOSE'**.



Tip

3. Playback begins automatically.



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

For further information, read chapter 'Playing a DVD video disc'.



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

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



If the playback does not start automatically, press **PLAY ▶**. For further information, read chapter 'Playing an audio CD'.



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

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

|| Playing a DVD video disc

* 'PIN' will appear on the display

The lock feature is activated for the inserted disc. Read section 'Changing the PIN code' in chapter 'Access control'.

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

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

* The screen is showing regional code information

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

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

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

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

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



Problem

How can I access hidden information?

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

Confirm with **OK**.



Tip



1. If playback does not start automatically, press **PLAY ►**.
The display shows: title, chapter, time elapsed.
2. To stop the disc, press **STOP ■** on the remote control or **■ STOP** on the front of the DVD recorder.
3. To eject the disc, press **EJECT** on the remote control or **OPEN/CLOSE** on the front of the DVD recorder.

|| Playing a DVD +RW / +R disc

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

* I see the message 'READY' in the display

- There are no recordings on this disc.



Problem

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

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

The correct recording quality '**HQ, SP, LP, EP, EP+**' will automatically be selected during playback. For more information, please read section 'Selecting the recording type (Quality)' in chapter 'Manual recording'.



Excuse me?

|| Playing an audio CD

You can use your DVD recorder to play audio CDs.

1. Insert an audio CD. Playback starts automatically.

Audio CD display

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

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



Tip

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

|| Playing an MP3 CD

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

When creating MP3 CDs please note the following:

Supported file system: ISO9660, Joliet

Supported formats: *.mp3

File names: maximum 64 ASCII characters (Joliet)

Maximum of 99 albums, 999 tracks

Supported sampling frequencies: 44.1kHz, 48kHz.

Files with less than 44.1kHz will be skipped.

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

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

Important notes for playback:

In agreement with SDMI the digital audio output will not work during MP3 playback. Only the first session of a multi-session CD will play back.

1. Insert an MP3 CD. Playback starts automatically.

MP3 CD display

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

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

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

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



Tip

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

Additional playback features

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

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

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

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



Tip

|| Playing a (Super) Video CD

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

'PBC' is turned on by default.

1. Insert a (Super) Video CD and press **PLAY ▶** .

If the '■' symbol appears in the display, start playback by pressing **PLAY ▶** .

2. If a menu appears on the screen, use the remote control buttons indicated on the screen to select the menu option you want (PREV = ◀, NEXT = ▶) or with the number buttons **0..9**.

If the PBC menu contains a title list, the desired title can be chosen directly.

3. The **RETURN** button will take you back to the previous menu.
4. Stop playback using **STOP ■** .

6 Additional playback features

Changing to another title/chapter

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

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

Using T/C (title/chapter)

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



Tip

Searching a disc

You can search the disc for a recording at 4x, 8x or 32x playback speed.

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

* No sound

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



Problem

Still picture



1. During playback, press **PAUSE ||** to stop the disc and display a still picture.
2. To continue playback, press **PLAY ▶**.

Slow motion

1. During playback, press **◀|** or **|▶** on the remote control.
2. You can choose between the various speeds using **◀|** or **|▶**.
3. To continue playback, press **PLAY ▶**.

Search by time

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

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

* The time entered will flash

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










5. Playback starts before the time entered.

Repeat / Shuffle play

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

1. Select the desired chapter, title or the entire disc and start playback.
2. During playback, press **REPEAT MODE**. By pressing **REPEAT MODE** again you can choose from the following options:



- chapter : Repeat chapter – DVD only

- title : Repeat title/track

- repeat : Repeat entire disc (**Video CD, Audio CD only**)

- repeatA- : Repeat sequence (see the following paragraph)

- shuffle : Shuffle play

- scan : Scan feature (see the following paragraph)

- off : no repeat


3. To switch off the repeat, press **STOP** ■.

You can also press **REPEAT MODE** repeatedly until the icons disappear.


■ Repeat sequence (A-B)

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

1. During playback press **REPEAT A-B**. '  ' icon appears on the screen. This marks the start point.
2. At the desired end point, press **REPEAT A-B** again. '  ' appears on the TV screen. The disc will only play between the selected points.
3. To switch off the repeat, press **REPEAT A-B** until the icons disappear.


|| Scan feature

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

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

|| Zoom feature


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

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

|| Camera angle

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


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

2. Press **SYSTEM** and select the '  ' icon using ▼ .

*** The '  ' icon is not visible**

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




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

|| Changing the audio language

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


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

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

|| Subtitles

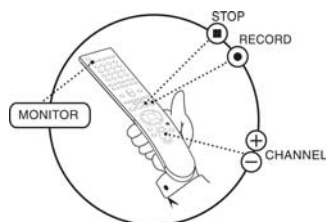
Pre-recorded DVD videos often come with subtitles in several languages. Playback uses the language you selected during initial installation. You can change the subtitle language of the current disc at any time.

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

1. During playback press **SYSTEM** and select the '  ' icon using ▼ .
2. Select the required subtitle language using ◀ or ▶ . You can also enter the number directly using the number buttons **0..9**.
3. Play continues in the new subtitle language.

7 Manual recording

General information



Which discs can I use for recording?

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

DVD+RW

This disc can be written to and the contents can be deleted and can be recorded again.

DVD+R

This type of disc can only be recorded once.

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

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



Excuse me?

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

A recording always begins at the position indicated by the cursor in the 'Index Picture Screen'.

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

If you want to record between existing recordings, check the length of the old recording and the length of the new recording.

If the new recording is too long, the following recording (title/chapter) will be overwritten.

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

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

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

Recording without automatic switch-off

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

* Index display

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

* 'READY' appears in the display

The inserted DVD disc is empty.

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

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

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

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



Problem

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

Programme number of the external inputs:

'EXT1' Scart socket at the back **EXT 1 TO TV-I/O**

'EXT2' Scart socket at the back **EXT 2 AUX I/O**

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

'CAM1' Video/audio front sockets A/V **VIDEO / left AUDIO right**
Switching between sockets **S-VIDEO** and **VIDEO** is done automatically. In case both sockets are used, the signal received at socket **S-VIDEO** is treated with priority.

'CAM2' Digital Video (i Link) front socket **DV**



Tip

- To start recording, press **REC** ● on the remote control or **REC** on the DVD recorder. For DVD+R discs each new recording is always added at the end of all previous recordings as existing recordings cannot be overwritten.



Inserting chapter markers

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

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

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



Tip

- You can stop recording by pressing **STOP** ■ on the remote control or ■ **STOP** on the recorder. The DVD player is preparing the list of contents.

* The display will read 'DISC ERR'

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

If this problem continues, try "Other disc errors" instructions in chapter 'Before you call an engineer' section at the end of this operation manual.



Problem

Making recordings on DVD+R discs compatible

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



Tip

|| Interrupt recording (Pause)

- During recording press **PAUSE** || , for example to avoid recording the commercials.
- To continue recording, press **REC** ● .

End recording

To end the recording, press the **STOP** ■ button. Please wait until the '**REC**' display switches off.



Tip

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

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

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

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



Excuse me?

Protecting the disc against accidental recording

To prevent an important recording from being accidentally erased, you can protect the entire disc. You can only protect the disc as a whole.

It is not possible to protect an individual recording.

What happens with DVD+R discs?

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



Excuse me?

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

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

|| Lining up recordings within a title (assemble cut)

You can add further recordings to a title already contained on a DVD+RW disc. This recording will be added to the title as a so-called 'chapter'.

Existing information will be overwritten from this location onward. Depending on the length of the recording, this will also overwrite titles that follow the current title.

The recording mode (quality) is automatically transferred from the current title.

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

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

What happens with DVD+R discs?

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



Excuse me?

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

|| Selecting the recording mode (quality)

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

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

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

1. Switch on the TV set. If required, select the programme number for the DVD recorder.
2. On the remote control, select the recording quality using **REC MODE**.

Which recording types can I choose?

- 'HQ'** : High Quality offers the best picture quality and a recording time of 60 minutes.
- 'SP'** : Standard Play (pre-recorded DVD quality) offers excellent picture quality with a recording time of 120 minutes.
- 'LP'** : Long Play (S-VHS quality). Recording time 180 minutes.
- 'EP'** : Extended Play (better than VHS quality). Recording time 240 minutes.
- 'EP+'** : Extended Play (VHS picture quality). Recording time 360 minutes.

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

1. Press the **SYSTEM** button.
2. Select 'T₁' symbol with ▼ or ▲ .
3. Select '**Record settings**' using ◀ or ▶ and confirm with ▼ .
4. In the line '**Record mode**' select the recording type with ◀ or ▶ .
5. Confirm using **OK** and **SYSTEM**.
6. You can select the settings '**Stndrd**' (Standard) or '**Sport**' (fast movements) in the '**Filter mode**' line.



Tip

Automatic recording from a satellite receiver (Sat Recording)

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

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

Switching off 'Sat Recording'

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

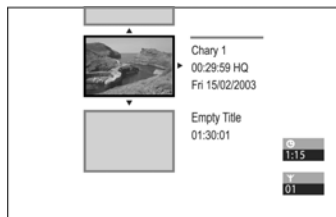


7. Confirm with **OK**.
8. Use a scart cable to connect the scart socket **EXT 2 AUX I/O** on the DVD recorder to the corresponding scart socket on the satellite receiver.
9. Quit using **SYSTEM**.
10. Insert a disc that you want to use for recording.
11. Programme the satellite receiver with the required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

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

8 Managing the disc contents

General Information



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

- Name of the recording

If the TV station does not transmit a name, only the channel number and time will be stored as the name

- Length of the recording
- Record type (Quality)
- Date of the recording
- Index picture of the recording

A marker will be set every 5-6 minutes if the **'Auto chapters'** function is activated in the **'Record settings'** menu.

This marker is known as a 'chapter'. These markers can be changed when the recording has finished.

Can markers be set on a DVD+R disc?

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



Excuse me?

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

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

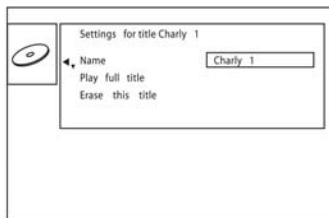
Read **'Playing back titles'** to find out how to play back the entire recording including the hidden chapters.

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

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

Editing recording titles (name)

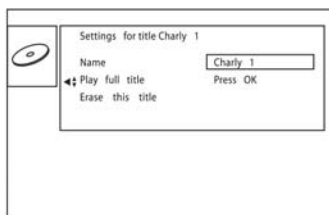
Some TV stations transmit the title (name) of a programme. In this case, the name will be included automatically (e.g. 'ROCKY'). Otherwise, the channel number and time of the recording are stored as the name. The name of the recording can only be changed after the recording has been completed.



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

Playing back titles

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

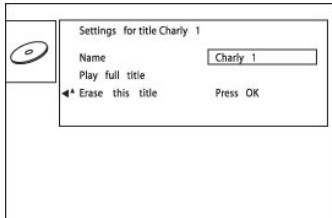


1. Press the **STOP** ■ button or during playback press **DISC**.
2. Using ▲ or ▼ select the title that you want to play back and confirm with ► . The menu for editing titles appears.
3. Select '**Play full title**' using ▲ or ▼ and confirm with **OK**.
4. Playback begins automatically. The full title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

Erasing a recording/title

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

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



Can titles be deleted from a DVD+R disc?

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



Disc settings



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

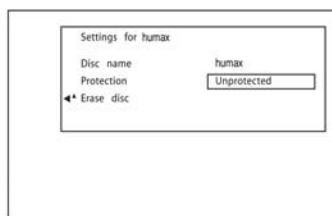
You can:

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

Follow the instructions to get to this screen:

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

■ Changing the disc name



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

■ Finalising a disc

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

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

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

Your disc is already compatible. No conversion is necessary. In this case, the Disc Info screen shows that the 'Edits' checkbox is filled with 'x' mark. To end, press **SYSTEM**.



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

■ Finalising DVD+R discs

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

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

* '**Finalise disc**' does not appear

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

* '**Settings for**' does not appear

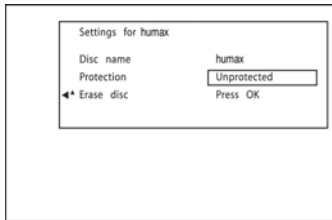
If the disc has been recorded on another DVD recorder, the menu may not appear. In this case, use the '**Finalise disc**' feature in the 'T↓' menu, under '**Features**'.



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

■ Erasing DVD+RW disks

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



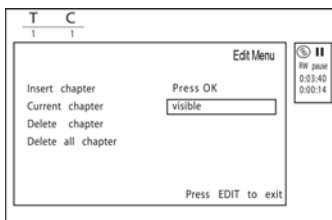
|| Favorite Scene Selection

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. Display this menu during playback using **EDIT** on the remote control.

■ Inserting chapter markers

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

1. During playback press **EDIT** on the remote control at the appropriate position. The **'Edit Menu'** menu will appear on the screen.
2. Confirm **'Insert chapter'** using **OK**. The screen displays **'Inserting chapter marker'**.



'X' will appear on the screen:

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

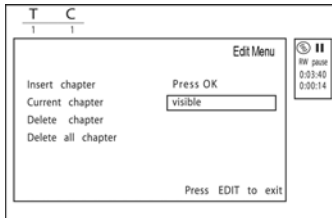


3. To stop the feature, press **EDIT**.

■ Hiding chapters

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

1. During playback of the appropriate chapter press **EDIT** on the remote control. The '**Edit Menu**' menu will appear on the screen.



How do I select other chapters?

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



2. Select '**Current chapter**' using **▼**.
3. Using **▶** select '**hidden**'. The picture is shown darker.

Switching quickly

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



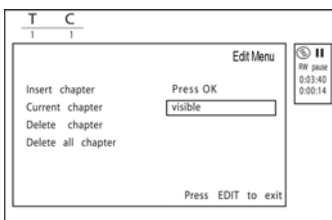
4. To end, press **EDIT**.

During playback this chapter will be skipped. If the chapter is to be visible, select '**visible**' in step ③ with **▶**.

■ Erasing chapter markers

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

1. During playback of the appropriate chapter press **EDIT** on the remote control. The '**Edit Menu**' menu will appear on the screen.



How do I select other chapters?

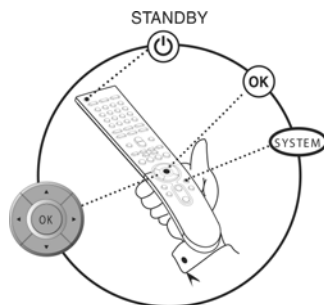
1. Press '**T/C**' on the remote control. The title and chapters are shown at the top of the screen.
2. Using **▶** or **◀** select Title (T) or Chapter (C).
3. Using **▲** or **▼** select the title or chapter you wish to edit.



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

9 Programming a recording (TIMER)

General Information



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

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

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

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

This information is saved in a TIMER block.

What is 'VPS/PDC'?

'VPS' (Video Programming System)/ 'PDC' (Programme Delivery Control) are used to control the start and duration of TV channel recordings. If a TV programme starts earlier or ends later, the DVD recorder will still switch itself on and off at the correct times.

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

You must enter the start time exactly to the minute.

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

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



|| Programming a recording

Timer		Programming		VPS	PDC	Ed	Rec
Date	Prog.	Start					Mode
01	BBC1	20:15				21:30	SP

Mo-Fr/Weekly
Press SELECT

To store
Press OK

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

Selecting daily/weekly recordings

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

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

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

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

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

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

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

When you don't use VPS/PDC function, it's better to set start timer one minute prior to your intended start time.

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

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

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



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

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

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

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

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

Total record time: 01:15

To change
Press >

To exit
Press TIMER

Delete programmed recording

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



5. Press ► .
Select the input field with ◀ or ▶ .
If required, change the information with ▲ , ▼ or the number buttons 0..9 or **SELECT** button.
6. Confirm with **OK**.
7. To end, press **TIMER**.
8. Switch off with **STANDBY** ⏻ .


Before switching off the recorder, you must check the position of the cursor in the 'Index Picture Screen'. A recording always begins at the position indicated by the cursor in the 'Index Picture Screen'. If the new recording is too long, the following recording (title/chapter) will be overwritten.

During the programmed recording, the scart EXT2 signal is directly switched to the scart EXT1 socket. So if you want to monitor what's currently being recorded, press the DVD/TV button on the remote control unit.

Problem solving for programmed recordings



■ DVD recorder is not responding

Solution.

While a programmed recording is being made, you cannot operate your recorder manually. If you want to cancel the programmed recording, press **STANDBY** .


■ 'Switch off, timer recording' flashes on the TV screen.

Solution.

The DVD recorder was switched on several minutes before the start of a programmed recording. Switch off the DVD recorder with **STANDBY** . A programmed recording (timer) will only function if the DVD recorder is switched off (button **STANDBY** .

■ Error message: 'Insert recordable disc'.

Solution.

Either no disc has been inserted or you cannot record to this disc. Insert a disc that you can record onto. Switch off the DVD recorder using **STANDBY** .




■ The error message 'Disc locked' appears briefly on the screen.

Solution.

A write-protected disc has been inserted. Cancel the protection (see 'Preventing accidental erasing of discs' in 'Manual Recording') or insert a different disc.

■ Error message: 'Memory full'.

Solution.

If this error message appears after pressing **TIMER**, then all the **TIMER** blocks are already programmed. No more recordings can be programmed. Press the  button. If you want to clear or check a programmed recording (**TIMER** block), select it with  or .

■ The 'Data error' message appears on the screen.

Solution.

The data for the recording could not be transferred. Please check the date, start time and end time of the programmed recording.

■ 'Collision' appears on the screen.

Solution.

- The information for two programmed recordings overlap.
- If you ignore this error message the TV programme with the earlier start time will be recorded first. You will miss the start of the second programme.
- Change the information for one of the recordings.
- Delete one of the recordings.

10 User preferences

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



Picture setting



Sound setting



Language setting



Feature settings



Recording settings



Installation

1. Switch on the TV set. If required, select the programme number for the DVD recorder.
2. Press **SYSTEM** on the remote control. The menu bar appears.
3. Select the 'T' icon using ▼ or ▲ and confirm with ►.
4. Select the appropriate feature using ◀ or ▶ and confirm with ▼.
5. Select the corresponding line using ▼ or ▲ and confirm with ►.
6. Select the appropriate feature using ▼ or ▲ or the setting using ◀ or ▶.
7. Confirm the setting with **OK**.
8. Quit the menu item using ◀.

Picture settings

You can choose the following features in this menu:

■ 'TV shape'

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

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

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

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

■ 'Black level shift'

Adapts the colour dynamics for NTSC playback.

■ 'Video shift'

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

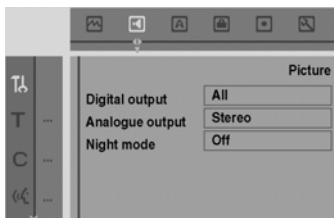


■ 'SCART video'

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

|| Sound settings

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



■ 'Digital output'

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

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

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

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

■ 'Analogue output'

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

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

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

■ 'Night mode'

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

|| Language settings

You can choose the following settings in this menu:



■ 'Audio Language'

Playback audio language

■ 'Subtitle'

Subtitle language

■ 'Menu'

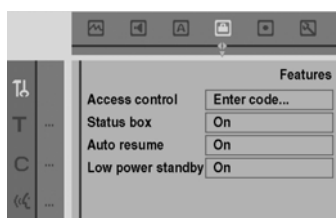
Screen menu language

■ 'Country'

'Country'

|| Features settings

You can select the following functions in this menu:



■ 'Access control'

Please read the next chapter 'Access control'

■ 'Status box'

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

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

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

■ Auto resume

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

■ Low power standby

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

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

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

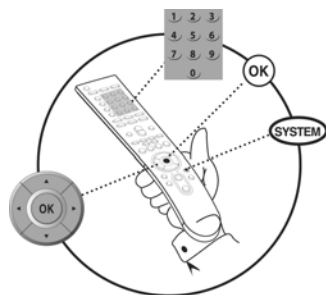
■ 'PBC'

This line appears only if a VCD is loaded.

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

11 Access control

Parental level control (DVD video only)

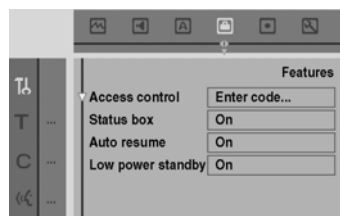


Films on pre-recorded DVD discs may contain scenes not suitable for children. Therefore, some discs may contain 'Parental Control' rating information that applies to the entire disc or to certain scenes on the disc.

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

Activating/deactivating parental level control

1. Switch on the TV set. If required, select the programme number for the DVD recorder.
2. Switch on the DVD recorder using **STANDBY/ON**.
3. Press **SYSTEM**. The menu bar appears.
4. Select the 'TV' icon using ▼ or ▲.
5. Select '**Features**' using ◀ or ▶ and confirm with ▼.
6. Confirm '**Access control**' using ▶.
7. Enter a 4-digit code of your choice. If the code is new, you may have to enter the code a second time as confirmation.
8. Select the '**Parental level**' using ▲ or ▼ and confirm with ▶. A bar appears to select the parental level.
9. Select the appropriate rating using ▼, ▶ or the number buttons **0..9**.



What do the ratings mean?

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

Rating 1 (suitable for children)

Rating 8 (only suitable for adults)

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

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




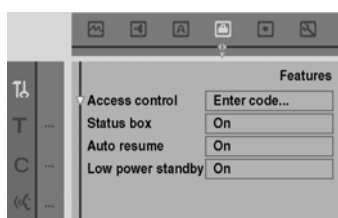
Tip

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


■ Changing the country

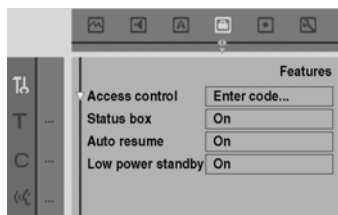
The set filter values depend on the respective country. It is therefore necessary to enter the country to which these filter values apply.

1. Switch on the TV set. If required, select the programme number for the DVD recorder.
2. Switch on the DVD recorder using **STANDBY/ON**.
3. Press **SYSTEM**. The menu bar appears.
4. Select the '  ' icon using ▼ or ▲ .
5. Select line '**Features**' using ◀ or ▶ and confirm with ▼ .
6. Confirm the line '**Access control**' using ▶ .
7. Enter your four-digit code.
8. Select '**Change country**' using ▼ or ▲ and confirm with ▶ .
9. Select the corresponding country using ▲ or ▼ and confirm with **OK**.
10. To end, press ◀ and then **SYSTEM**.



|| Changing the PIN code

1. Switch on the TV set. If required, select the programme number for the DVD recorder.
2. Switch on the DVD recorder using **STANDBY/ON**.
3. Press **SYSTEM**. The menu bar appears.
4. Select the '  ' icon using ▼ or ▲ .
5. Select '**Features**' using ◀ or ▶ and confirm with ▼ .
6. Confirm '**Access control**' using ▶ .
7. Enter your four-digit PIN code.
8. Select '**Change code**' using ▲ or ▼ and confirm with ▶ .
9. Enter the new code using the number buttons **0..9**. Enter the same code again as confirmation.
10. Quit using ◀ and **SYSTEM**.



I have forgotten my code

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



12 Before you call an engineer

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

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

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

The serial number (SN) is printed on the type plate at the back.


■ Your recorder does not respond to any button being pressed and the display shows: 'SETUP'

Solution.

Recorder in initial installation mode: Switch on the TV, switch over to the DVD recorder socket. Now the menu for language selection should appear. Please read paragraph 'Initial Installation' in the chapter 'Installing your DVD Recorder'.

■ Your DVD recorder does not respond to any button being pressed:

Solution.

- Press DIMMER button on the remote control to see if the display is dimmed off.
- There is no power supply: check the power supply.
- A programmed recording (Timer) is currently being made: If desired, cancel the programmed recording (Timer) with **STANDBY** .
- There is a technical problem: disconnect from the mains power supply for 30 seconds, then connect again.

If this doesn't help, you can reset your DVD recorder to the default factory settings.

■ Resetting the machine to the default factory settings:

Solution.

Important:

All the information stored (TV channels, time and date, TIMER) will be lost.

1. Disconnect from the mains power supply.
2. Press and hold down the **STANDBY/ON** button on the device and reconnect to the mains power supply.
3. Release the **STANDBY/ON** button when **'SETUP'** appears on the display. All the information stored (TV channels, time and date, TIMER) will be lost.

Please read paragraph 'Initial Installation' in the chapter 'Installing your DVD Recorder'.

■ Remote control does not work:

Solution.

- Press DIMMER button on the remote control to see if the display is dimmed off.
- Remote control not pointed toward the DVD recorder: Point the remote control at the machine.
- There is a technical problem: Take out the batteries, wait for 10 seconds and put them in again.
- Batteries are flat: Change the batteries.

■ No playback on DVD recorder:

Solution.

- There is no recording on the disc: Change disc.
- You inserted the wrong disc type: Your recorder can play back the following disc types: DVD Video, (Super)Video CD, DVD+R(W), Audio CD, MP3 CDs
- You inserted the disc the wrong way: Insert the disc with the label facing upwards
- Disc is dirty: Clean the disc
- Wrong region code: The region code of the DVD and the DVD recorder must match.
- Parental control is on: Read chapter 'Access control'
- You have selected the wrong programme number for the DVD recorder on the TV: on the TV, select the correct programme number for the DVD recorder.
- The cable connecting the TV set and the DVD recorder has become loose: check the cable.

■ I cannot playback (Super) Video CDs

Solution.

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** while the (Super) Video-CD is inserted .
2. Select ' **T** ' using **▼** or **▲** .
3. Select line '**Features**' using **◀** or **▶** and confirm with **▼** .Before you call an engineer
4. Select '**On**' in line '**PBC**' using **▼** or **▲** .
5. Confirm with **OK** and end with **SYSTEM**.

■ Poor playback on DVD recorder: (distorted picture/distorted sound)

Solution.

- Your TV set is not properly adjusted.
- Disc is dirty: Clean the disc
- Sometimes the picture may be temporarily distorted. This is not a defect of your DVD recorder.

■ No recording possible:

Solution.

- The TV channel you want to record is not stored or you selected the wrong programme number: Check TV channels stored.
- Disc write-protected (recording protected): Remove write-protection or change the disc. For more information, please see 'Preventing accidental erasing of discs' in chapter 'Manual Recording'.
- An already finalised DVD+R has been inserted: Change disc.

■ Programmed recording does not work:

Solution.

- The TV channel you want to record is not stored or you selected the wrong programme number: Check TV channels stored.
- You have not set the TIMER properly: Check the programmed recordings (TIMER block).
- Locked disc inserted: Remove disc lock.
- An already finalised DVD+R has been inserted: Change disc.
- 'VPS/PDC' switched on but 'VPS/PDC' time wrong: Enter 'VPS/PDC' time exactly to the minute. Check the aerial.

■ There is picture or sound interference on TV reception:

Solution.

- Switch to recording mode 'HQ' with **REC MODE** during playback from the internal TV tuner (**MONITOR** button). This will help achieve the best possible picture quality.
- Before recording, select the recording mode as described in chapter 'Manual Recording', section 'Selecting the recording mode (quality)'.
- Have your aerial checked.

■ Distorted sound coming from a connected hi-fi amplifier

Solution.

The DVD recorder is connected to the 'Phono-input' of your amplifier: This socket is provided only for record players without a preamplifier. Select a different audio input.

■ The picture is distorted or black-and-white during playback

Solution.

- The TV system of the disc does not match that of your TV set (PAL/NTSC).
- The recording can be made in colour only when the TV channels or the connected additional device send a colour signal. Black-and-white signals containing no color information (colour subcarriers) cannot be recorded.

■ No sound signal at the digital output

Solution.

- Check whether the sound settings match the selected inputs and connected additional devices.
- Check whether you have inserted an MP3 CD: In accordance with SDMI (Secure Digital Music Initiative), the digital audio output is turned off during MP3 playback. This is not a defect of your DVD recorder.

■ A DVD+RW disc cannot be played on certain DVD players

Solution.

- If a recording is too short, it is possible that a DVD player cannot detect it: Please observe the following 'Minimum recording times':
Recording mode '**HQ**': 5 minutes, '**SP**': 10 minutes, '**LP**': 15 minutes, '**EP**': 20 minutes, '**EP+**': 30 minutes
- Some DVD players cannot play back DVD+RW recordings. You can solve this problem by using a special function:
 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 **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.

■ Other disc errors

Solution.

If it is impossible to play back a disc, you can try and repair it for new recordings using the following function. This will only prepare the disc for erasing. It will not be erased, however, until the recording has been completed.

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 erasing.
4. Start recording as with an empty disc.

Call Center

■ Humax Middle East Call Center (Dubai, UAE)

Tel: +971 (0)4 359 2323 (Open: 9:00 - 20:00 / close on Friday)

Open: Local Time in Dubai (GMT+4)

9:00 - 20:00 (Saturday - Thursday, close on Friday)

Support Language: English/Arabic

■ Humax Hotline (Germany)

Germany: 01805 778 870 (€ 0,12/Min)

Other Countries: + 49 1805 778 870 (€ 0,12/Min+ International Call Charge)

Open: Local Time in Germany (GMT+1)

8:00 - 20:00 (Monday - Friday)

8:00 - 18:00 (Saturday)

Support Language: Deutsch/English

■ Notice

The information in this document is subject to change without notice. HUMAX does not have any responsibility for direct, indirect, accidental, necessary and other damage due to your offer or use of the information contained in this manual.

For hardware repair, please refer to support website. (Homepage or HCSA)

www.humaxdigital.com