

GB

Mastec

DVD Recorder
Model 50550/HTDVDRE 31

Guarantee Certificate
valid only together with receipt

If you wish to make use of the guarantee, please
contact our service hotline first. You must do this if
you wish to avoid paying shipping/postage charges!
Many thanks.

3 years guarantee

Falls Sie diese Bedienungsanleitung in
englischer oder türkischer Sprache benötigen,
kontaktieren Sie unsere Service-Hotline.

If you require these instructions in English or
Turkish, please contact our service hotline.

Si vous souhaitez recevoir le présent mode
d'emploi en anglais ou en turc, contactez notre
assistance téléphonique.

Bu kullanım kılavuzunu İngilizce veya Türkçe
olarak edinmek istiyorsanız, hotline servisimize
başvurabilirsiniz.

GB

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Mastec

DVD Recorder
Model 50550/HTDVDRE 31



Dear Customer,

Congratulations on purchasing the MASTEC DVD Recorder model 50550.

Please read the operating instructions carefully to avoid damaging the device and to prevent it from malfunctioning.

CE

The device is labelled with the CE symbol and therefore conforms to the respective European standards.

Formate / Medien

Use CDs and DVDs that are labelled as follows:



The device is also compatible with the following formats/media:

Recording and playback DVD + R DVD + RW
Only playback DVD Video, Audio CD, DVD-R, CD-R, CD-RW, VCD, SVCD, MP3 CD

Note:
Playing recordable CDs and DVDs
Due to the differences in quality amongst CD/DVD blanks and differences in the way various burner software applications make recordings, it is possible that some burned CDs and DVDs cannot be read or played by the device.
If this situation arises, this does not mean there is a problem with the player.

The device is set to regional code 2 (see Specialist Terms):



DVD films are divided up into separate regions in order to prevent the latest films in the United States or Japan from being played on European DVD players.

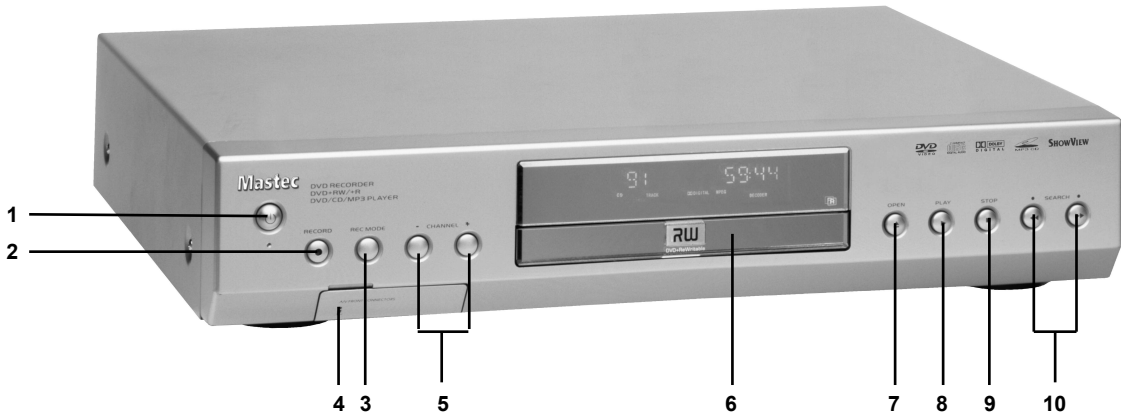
When purchasing DVD films, please make sure they are labelled with "All" or "Code 2".

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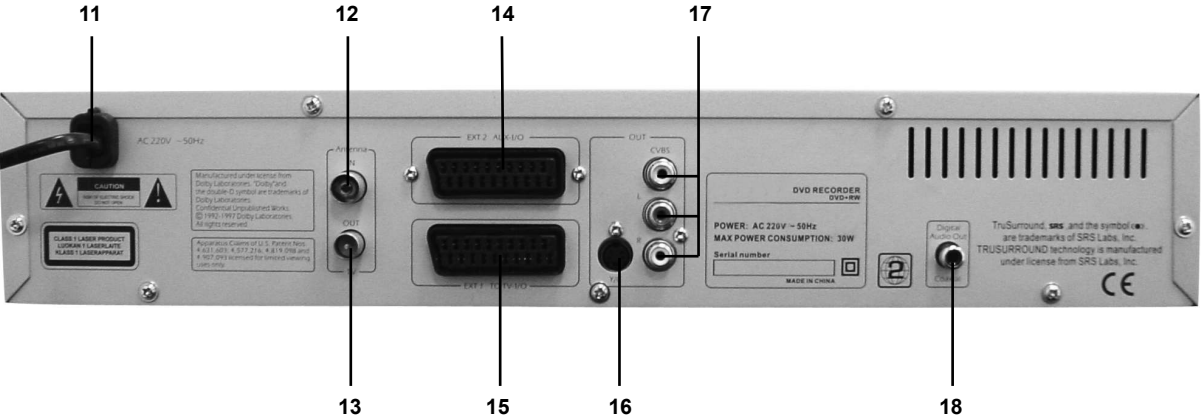
Device overview

Front



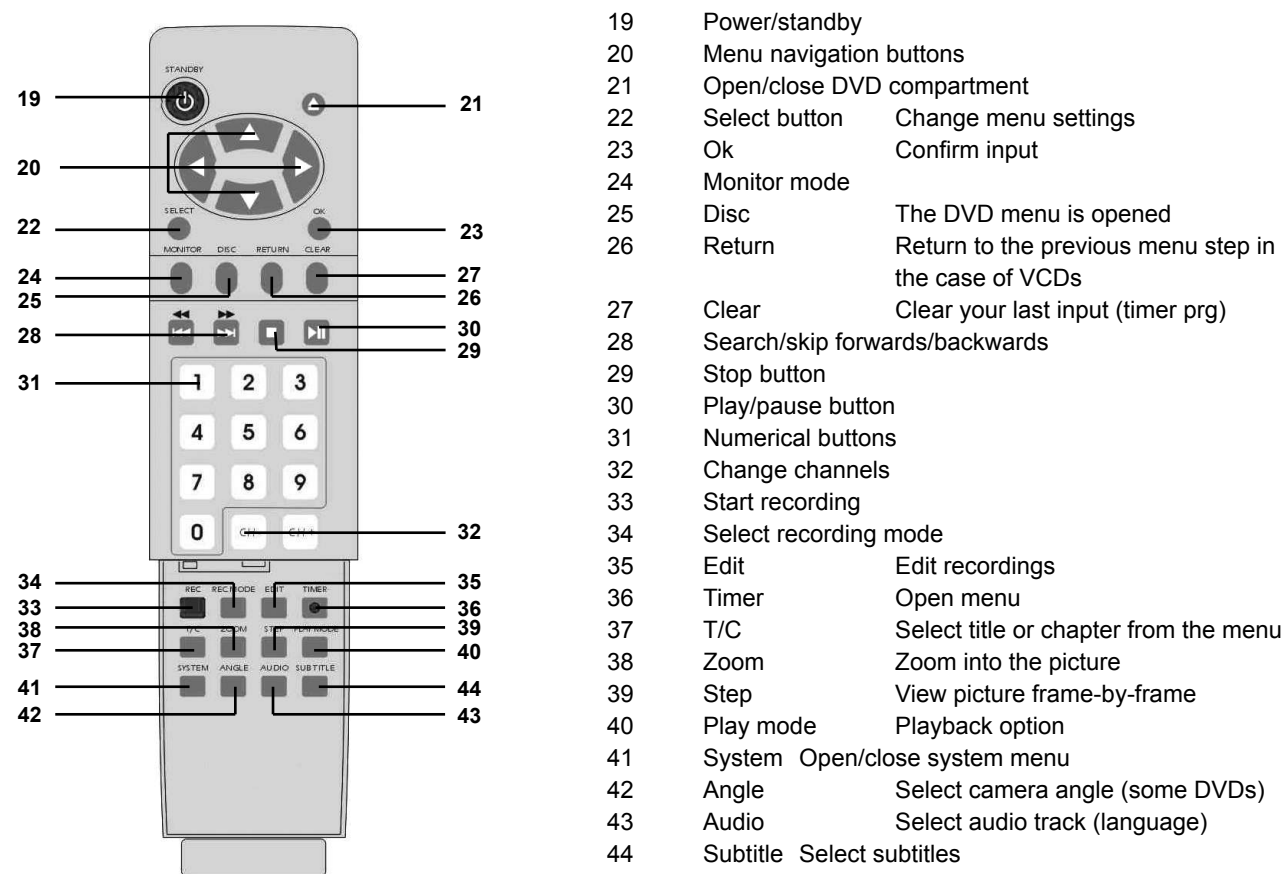
- 1 Switch on/off
- 2 Start recording
- 3 Set the signal source
- 4 Audio/video RCA input (CAM 1)
- 5 Channel selection
- 6 DVD tray
- 7 Open/close DVD tray
- 8 Play
- 9 Stop
- 10 Search/skip forwards/backwards

Back



- 11 Mains power cable
- 12 TV tuner aerial input
- 13 TV tuner aerial output
- 14 SCART input (EXT 2)
- 15 SCART input/output (EXT 1)
- 16 S-Video output
- 17 Audio/video RCA output
- 18 Coaxial digital output

Remote control



Safety notices

- Read the operating instructions carefully to avoid damaging the device and to prevent it from malfunctioning.
- Keep the operating instructions in a safe place.
- Observe the following safety notices.
- Place the DVD Recorder on a flat, stable surface.
- Protect the DVD Recorder against excessive moisture, heat from radiant heaters and direct sunlight.
- Never place burning objects (e.g. candles, tea lights) on top of the device.
- Devices can be damaged if they are connected to the mains electrical supply during a thunderstorm. For this reason, always disconnect the power plug from the mains power socket during a thunderstorm.
- The device must not be used if the electrical cable shows signs of damage.
- Dispose of spent batteries at appropriate refuse collection points.
- Keep packaging materials (e.g. plastic bags) away from children.
- You can disconnect the device from the electrical power supply by unplugging the power plug. Please make sure that the mains power plug is accessible at all times.
- Never subject the device to moisture or splashes, and never place any vessels containing liquids (e.g. vases) on top of the system.
- There must be sufficient free space in front of the DVD player so that the DVD compartment can open.
- Never open the device's housing – there is a danger of electrical shock.

The guarantee becomes void if the housing is opened.

Care and maintenance

- Pull the mains power plug out of the electrical socket before cleaning or servicing the device.
- Clean the DVD Recorder only using a moist cloth. Chemical detergents could damage the device.
- Clean CDs using a soft, lint-free cloth. Detergents can damage CDs. Only label CDs on their label side (printed side) using a soft felt pen.

What advantage does a DVD offer over a VHS video cassette

The quality of DVDs is more than twice as good as that of VHS cassettes. Regardless of how often you play a DVD, it will never suffer a loss in quality.

What are the capabilities of DVD+R

Compared to DVD+RW, you can only record once onto a DVD+R.

If it is not finalised, you can continue recording onto it using the DVD Recorder.

You can also delete recorded titles but you cannot overwrite them, i.e. you cannot record new titles over old ones. This type of disc must be finalised before it can be played on other DVD players. The DVD Recorder can read DVD+Rs/RWs even without them first being finalised.

After a disc is finalised, you cannot use the DVD Recorder to record any more data onto it.

What are the capabilities of DVD+RW

You can rewrite data onto this type of disc up to 1000 times. You can overwrite titles and record new titles onto DVD+RWs as often as you like.

Device connection options

Connecting the DVD Recorder

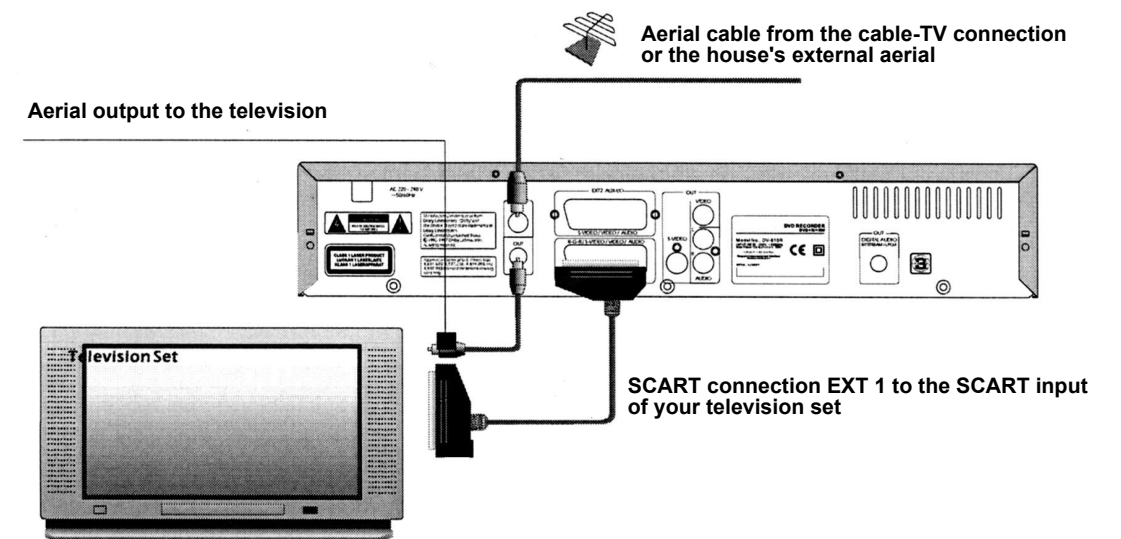
Connecting the DVD Recorder to your aerial or cable-TV connection

Connect the aerial input (12) using an aerial cable (not included) to the house's aerial connection or cable-TV connection.

Connecting the DVD Recorder to the television set using a SCART cable

Use a SCART cable (see Specialist Terms) to connect the DVD Recorder to your television set. Use the SCART cable to connect the EXT 1 socket (15) on the DVD Recorder to a SCART socket on your television set.

You will achieve a very high picture quality if you use this type of connection.



Connecting the DVD Recorder to the television set using an S-Video (Y/C) cable

If you have a television set with an S-Video (Y/C) socket (see Specialist Terms), which is also known as an SVHS socket, you can also use this type of connection.

Use an S-Video cable to connect the socket (16) of the DVD Recorder to the S-Video socket of your television set.

You will achieve a good picture quality if you use this type of connection.

Please note that only a video signal is carried by an S-Video cable. For sound, you will additionally need to use an RCA cable to connect the audio RCA outputs (17) of the DVD Recorder (red, white) to your television set or stereo sound system.

Connecting the DVD Recorder to the television set using a video RCA cable (CVBS)

If your television has a video RCA input, you can also use this to make the connection. Connect the video RCA output (yellow) (17) of the DVD Recorder to the video RCA input of your television set.

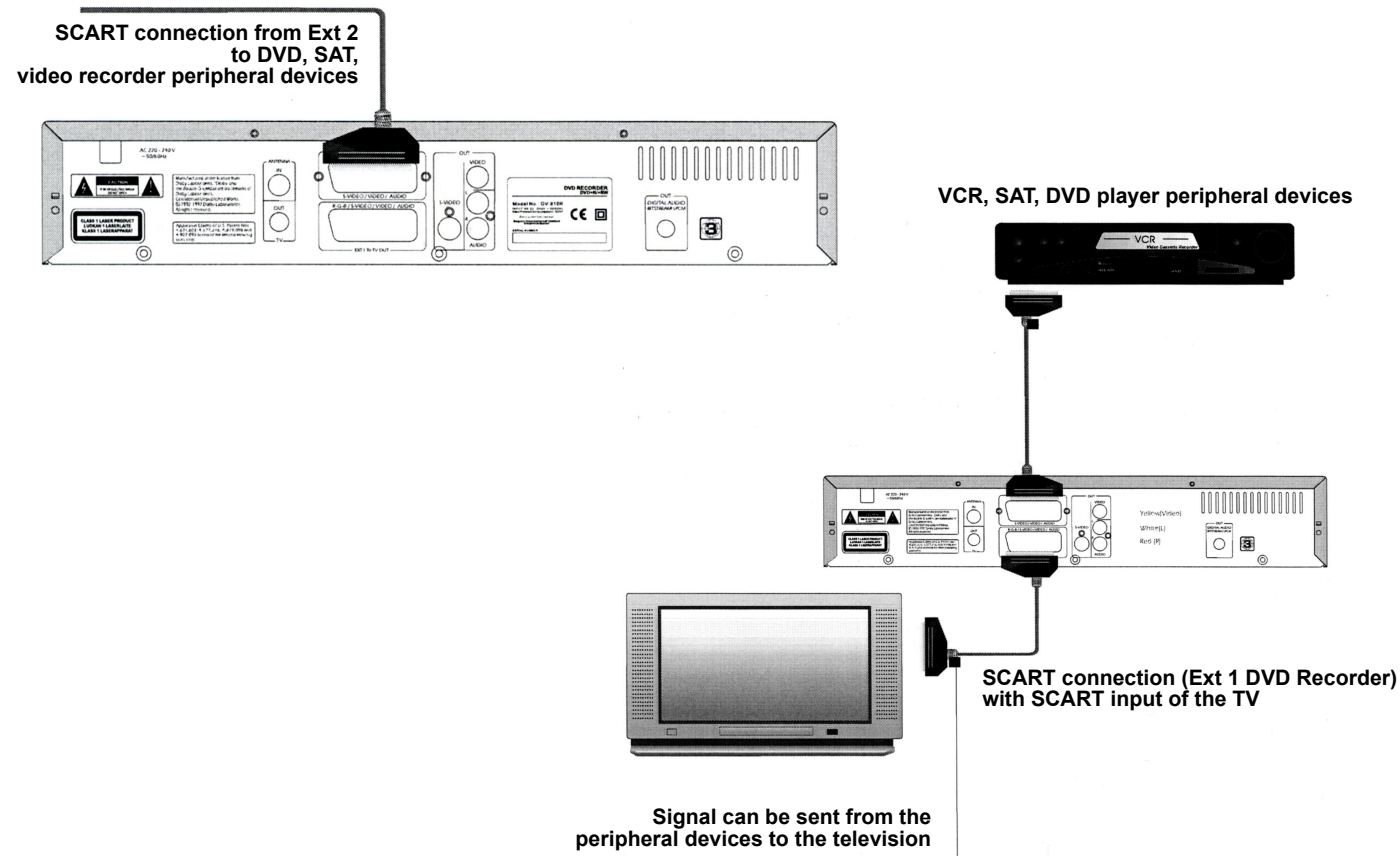
You will achieve a standard picture quality if you use this type of connection.

Please note that only a video signal is carried by the video cable. For sound, you will additionally need to use an RCA cable to connect the audio RCA outputs (17) of the DVD Recorder (red, white) to your television set or stereo sound system.

Connecting peripheral devices

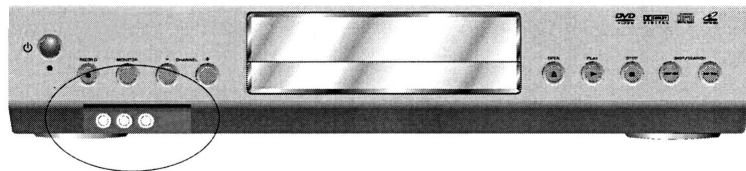
To the SCART socket Ext. 2

You can connect a video recorder, satellite receiver or a DVD player to the second SCART socket of the DVD Recorder. You will then be able to record from these devices or simply make these devices start playing if you select the corresponding channel on the DVD Recorder (here EXT 2) by pressing the channel + / - buttons (5). If you then press the monitor button (24), the video signal will be sent from EXT 2 to EXT 1 and you will see the picture from the peripheral device displayed on your television.



To the front video/audio RCA inputs

The front RCA inputs are well suited for connecting such devices as a video camera. Use a suitable cable to connect your camera to the Cam1 connection (4) of the DVD Recorder. Use the channel +/- buttons to select the appropriate channel (in this case CAM 1). If you have connected a television set to EXT 1, press the monitor button so that the picture from the camera is displayed on the television.



Connecting audio devices

Analog receiver with Dolby Pro Logic decoder or a normal stereo sound system

Use an RCA cable to connect your stereo sound system to the analog audio output (17) (red and white jacks). If you are operating the DVD Recorder with just a stereo sound system, set the analog output to stereo in the audio settings section of the system menu. If you have connected the DVD Recorder to a Dolby Surround system, set the analog output to the surround setting.

Dolby Digital system, AV receiver, digital 2-channel amplifier

To enjoy digital 5.1 sound, connect your Dolby Digital system to the digital output of the DVD Recorder. Use a single RCA cable to connect the coaxial digital output (18) of the DVD Recorder to the coaxial digital input of your system. Configure your system to use the coaxial digital input.

Getting ready for use

Remote control

Open the battery compartment on the reverse side of the remote control by gently pressing down on the marked spot on the battery compartment cover and then sliding the cover open in the direction of the arrow. Insert two UM4 type-AAA batteries and make sure that the polarity is correct as indicated inside the battery compartment.

Connect the device to a 230V/50 Hz supply socket using the permanently attached mains power cable.

Switch on the device using the Power button (1). Switch channels on your television set so that it uses the input of the DVD Recorder.

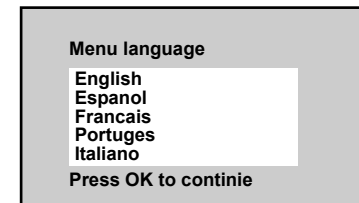
Installing for the first time

A menu will appear on the television screen when you switch on the Recorder for the first time. You can set the main system settings here.

Follow the instructions provided on-screen.

Select the appropriate items using the navigation buttons ▲ ▼ (20) and then confirm your choice with OK (23).

- In the first menu, set the language for the on-screen menu of the DVD Recorder. Use the navigation buttons ▲ ▼ (20) to make your selection and then confirm your choice with the OK button (23).



NOTE

WHAT IS AN ON-SCREEN MENU

The on-screen menu (OSD) simplifies operation of the DVD Recorder. All the settings that you can change are provided in your language on your television screen.

- Now set the audio language (dubbing language). Confirm your selection with OK.

NOTE

WHAT IS AN AUDIO LANGUAGE

Generally, DVDs include various languages. So here you can set the default language in which you want the DVD to start playing.

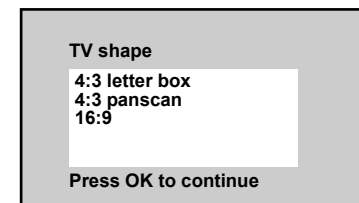
- Set the subtitles that you want. Confirm with OK.

Note

WHAT ARE SUBTITLES

Generally, DVDs offer various languages as subtitles. This is where you can choose the default language setting for subtitles that you might want to have displayed.

- You can set the TV display mode here. Confirm with OK.



NOTE

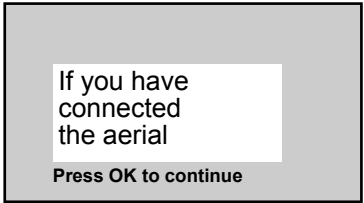
TV DISPLAY MODE

If you have a 16:9 television, select the 16:9 setting.

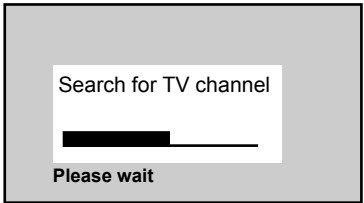
If you have a normal 4:3 television, then select:

- 4:3 letter box, i.e. in the case of 16:9 programmes, the picture is displayed in 16:9 and you see black bars at the top and bottom edges of the screen.
- 4:3 Pan Scan, i.e. 16:9 programmes are increased to full-screen size, though in doing so the left and right edges of the picture are cut off. Not supported by all DVDs.

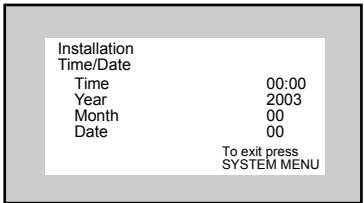
- Now set your country for TV reception. Confirm with OK.



- The device asks you whether you have an aerial or cable-TV connection. If yes, start the automatic search using the OK button (23).



- The device searches for all receivable channels.



- Finally, set the date and time using the navigation buttons (20).
- Finish configuring your settings by pressing the system button (41). After the configuration process, the Recorder switches itself off in order to store and apply the information that you entered.

DVD playback functions

Preparation

1. Switch on the DVD Recorder.
2. Switch on your television and select the television input that the DVD Recorder is connected to.
3. If you have connected the DVD Recorder to a hi-fi sound system, then switch this on too.

Playing DVDs

Open the DVD compartment by pressing the open button (7), and insert a DVD/CD with its label side uppermost (printed side). Press the open button again to close the DVD compartment. Original DVDs will cause the player to start playing automatically, otherwise press the play button (8).

Stop function/freeze-frame

You can stop playback by pressing the stop button (9). If you want to pause playback, press the play/pause button (8/30RC). To resume playback, press the play/pause button again.

Skip/search function

You can use the skip function to skip forwards or backwards to individual chapters (see Specialist Terms). You can use the search function to start a forwards or backwards search. Briefly press the skip/search buttons (10/28RC) to change chapters. Press and hold down the forwards or backwards skip/search buttons (10/28RC) until a mode window appears on-screen and the Recorder starts playing forwards or backwards at four times the normal playing speed. If you now press the skip/search button again, the speed increases to eight times the normal speed. If you press it a third time, it increases to 32 times the normal speed. To pause the search, press the play/pause button (8). To resume normal playback, press the play/pause button again.

Special functions

Repeat

You can use the repeat function to repeat individual titles, chapters or the whole DVD. If you press the play mode button (40), "Chapter" appears on the TV screen. The chapter that is currently playing will be repeated.

Chapter



If you press the play mode button twice, "Title" appears on the TV screen. The title that is currently playing will be repeated.

Title



If you press the repeat button three times, "Repeat" will appear on the TV screen. The entire contents of the DVD will be repeated.

Repeat



To cancel one of the special functions, press the stop button or press the play mode button repeatedly until the little window disappears from the top right-hand edge of the screen. If you press the stop button, playback will be stopped. You can use the resume function (see page 20) to return to the point at which you stopped playback.

Repeat A-B Repeat a scene

You can use the Repeat A-B function to define a section of film and then repeat this section. At the start of the scene that you want to repeat press the play mode button (40) repeatedly until A-B appears on the TV screen. At the end of the selected scene, press the OK button (23). "A-B" appears in the display and the selected section will now be repeated.

A-B



To cancel one of the special functions, press the stop button or press the play mode button repeatedly until the little window disappears from the top right-hand edge of the screen. If you press the stop button, playback will be stopped. You can use the resume function (see page 20) to return to the point at which you stopped playback.

Shuffle (Random) Random playback

You can use this function to activate random playback for individual chapters or individual music tracks. Press the play mode button (40) repeatedly until "Shuffle" appears in the display. Random playback starts immediately.

Shuffle



To cancel one of the special functions, press the stop button or press the play mode button repeatedly until the little window disappears from the top right-hand edge of the screen. If you press the stop button, playback will be stopped. You can use the resume function (see page 20) to return to the point at which you stopped playback.

Scan (Intro)








You can use this function to play a 10-second intro of individual chapters or music tracks. Press the play mode button (40) repeatedly until "SCAN" appears on the TV screen. Depending on the inserted DVD/CD, the Recorder starts playing a 10-second intro of individual chapters or tracks.

Scan



To cancel one of the special functions, press the stop button or press the play mode button repeatedly until the little window disappears from the top right-hand edge of the screen. If you press the stop button, playback will be stopped. You can use the resume function (see page 20) to return to the point at which you stopped playback.

Additional special functions during DVD playback

	System
T	Title/track
C	Chapter/index
	Audio language
	Subtitle language
	Camera angle
	Zoom
	Sound
	Time input

Direct chapter or title selection

If you press the T/C button (37), a selection window will appear on the TV screen. A "T" for title is highlighted in white. You can now use the navigation buttons ◀ ▶ (20) to select a title or use the navigation buttons ▲ ▼ to switch to "C" for Chapter and then select a chapter either using the navigation buttons ◀ ▶ or by entering a number directly using the numerical buttons (31) To quickly switch to the chapter/title that you want, press the OK button (23). The system switches over automatically after approximately 3 seconds.

Selecting a scene by entering a time

Whilst a disc is playing, you can enter a certain point in time and then jump directly to this position.

- Whilst the DVD is playing, press the system button (41) to make the selection menu appear on the TV screen.
- Press the navigation button ▼ repeatedly until you get to the time symbol.
- Press the navigation button ▶ , the picture is paused and the elapsed playing time is displayed.
- You can now use the numerical buttons to enter the point in time that you want to jump to. Confirm your input with OK.

You can close the selection menu by pressing the system button (41).

Slow motion

You can slow down playback using this function.

- During playback, press the play/pause button (8) to pause playback.
- Press and hold down the forwards or backwards skip/search button (10/28RC) until the menu window opens on-screen. The Recorder starts playing slowly at 1/8 of the normal playing speed.
- If you press the skip/search button again, the speed is set to 1/4. If pressed a third time, the speed is set to 1/2.

To return to the normal playing speed, press the play/pause button twice.

ZOOM function

You can use the zoom function to pause the picture and zoom in on the screen content.

- During playback, press the zoom button (38) to make a menu window appear on the TV screen.
- Use the navigation buttons ◀ ▶ (20) to set the magnification factor; the picture is paused. After you have selected the factor, press the OK button (23); a cursor appears in the centre of the TV screen.
- You can now use the navigation buttons ◀ ▶ ▲ ▼ to move around within the enlarged image.

Cancel the zoom function by pressing the play/pause button (30). You can close the menu window again by pressing the system button (41).

Angle function (select the camera angle) - only for a few DVDs

A few DVDs include scenes that were filmed from different camera positions.

- During playback, press the ANGLE button (42); the selection menu appears on the TV screen.
- To select the individual camera positions, press the navigation buttons ◀ ▶ or press the angle button several times.

You can close the menu window by pressing the system button (41).

Please note:
The range of options available depends on the particular DVD.

SUBTITLE (selecting subtitles)

Most DVDs contain subtitles in various languages.

- During playback, press the SUB TITLE button (44); the selection menu appears on the TV screen.
- To select subtitles that are available on the DVD, press the navigation buttons ◀ ▶ or press the subtitle button several times.

Please note: The number and type of subtitles available depends on the particular DVD.
You can close the menu window by pressing the system button (41).

Selecting dubbing language/audio format - AUDIO

Most DVDs contain several dubbing languages.

- During playback, press the AUDIO button (43); the selection menu appears on the TV screen.
- To select a film language that is available on the DVD or a certain audio format, press the navigation buttons ◀ ▶ or press the audio button several times.

Please note: The range of language/audio options available depends on the individual DVD.

Opening the DVD MENU

Most DVDs have their own menu where you can make various settings changes. You can open the DVD menu by pressing the DISC button (25). You can navigate in the DVD menu using the navigation buttons ◀ ▶ ▲ ▼ (20). To confirm a selected item, press the OK button (23).

Video CD/MP3

Video CD (Super Video CD) - Please note that not all the playback functions are available in the case of VCDs.
Insert a video CD into the drive. The device starts playing automatically.

MP3
Supports the following formats: ISO 9660, Joliet
Maximum: 99 directories, 999 tracks
Supported sample rate: 44.1 kHz
Supported bitrate: up to 256 kbps
Insert an MP3-CD into the drive. Start playback using the play button; stop playback using the stop button. Change tracks using the forwards/backwards skip buttons.

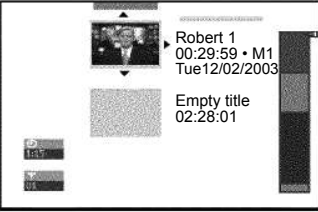
Recording

Manual recording

Note
This function allows you to start recording instantly and spontaneously, e.g. to record television programmes that are already being broadcast. Please make sure that you use a DVD+R or DVD+RW blank for the recording. Please take note of the particular properties of DVD+Rs and DVD+RWs.

Preparation

If you have inserted a recordable DVD (DVD+R, DVD+RW), the DVD Recorder will display a TITLE INDEX of the contents of the DVD on the TV screen. Use the navigation buttons ▲ ▼ (20) to select a title that you want to overwrite (only in the case of DVD+RWs) or select the EMPTY title window. The empty title window always represents the free space on a DVD at the end of titles that have already been recorded. The EMPTY title window displays how much space is still available on the DVD for each particular recording mode. In the case of DVD+R, a new recording is always automatically started at the end of all the other recordings.



Select the recording quality
Set the recording quality using the recording mode button (34).
The higher the recording quality the more storage capacity is required.
The following recording options are available to you.

Recording MODE		Recording duration
HQ (High Quality)	very high recording quality	60 min. on a 4.7 GB DVD blank
SP (Standard Play)	high recording quality	120 min. on a 4.7 GB DVD blank
LP (Long Play)	S-VHS picture quality	180 min. on a 4.7 GB DVD blank
EP (Extended Play)	better than VHS picture quality	240 min. on a 4.7 GB DVD blank
EP+ (Extended Play plus)	VHS picture quality	360 min. on a 4.7 GB DVD blank

Recording without automatic switch-off

- 1. Use the channel +/- buttons (5/32RC) to select the channel that you want to record from. For example, EXT 2 to record from a connected SAT receiver or a TV channel location to record television programmes from the cable-TV connection.
- 2. If necessary, press the monitor button (24) to view the signal that the DVD Recorder is receiving on the TV screen.
- 3. Press the REC button (33) to start recording. The Recorder's display shows the remaining time for the space that is still available on the DVD.

You can stop recording by pressing the stop button (29). "Menu UPDT" appears in the display; an INDEX window is inserted for the recorded title.

Recording with automatic switch-off

You can set a switch-off time for the instant recording.

- 1. Use the channel +/- buttons (5/32RC) to select the channel that you want to record from. For example, EXT 2 to record from a connected SAT RECEIVER or a channel location to record television programmes from the cable-TV connection.
- 2. If necessary, press the monitor button (24) to view the signal that the DVD Recorder is receiving on the TV screen.
- 3. Press the REC button (33) to start recording.
- 4. You can adjust the recording duration in 30-minute steps by pressing the Rec button several times. The device switches off automatically after this time elapses.

The recording time can be cleared by pressing the clear button (27); it can also be changed at any time by pressing the REC button again.

You can stop recording by pressing the stop button (29).

Adding recordings to a title (assemble editing) DVD+RW

You have the option of adding an additional recording to a title that has already been recorded. The new recording is added as a chapter to the recording. The data is overwritten from this point onwards; the recording quality in which the already existing title was recorded is used for the new recording too. Titles that follow on from the current title can also be overwritten, depending on the length of the recording and the remaining space still available on the DVD.

This function is only available when recording onto a DVD+RW.

- 1. Start playing the title up to the point at which you want to start the new recording.
- 2. Press the play/pause button (30) and use the channel +/- button (32) to select the channel which you want to record from. You can monitor the picture that you want to record by pressing the monitor button.
- 3. Start recording by pressing the REC button (33).
- 4. You can activate the automatic switch-off function (see previous point) or you can stop the recording at the required time by pressing the stop button.

Programmed recording

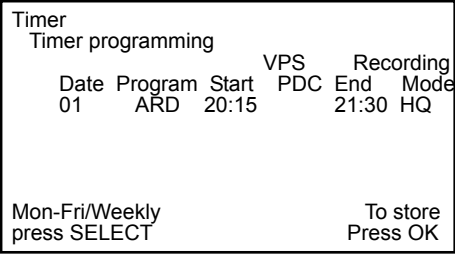
You can use programmed recording to start recording at some later point in time. The DVD Recorder switches to the programmed channel number and starts recording. You can use the DVD Recorder to pre-programme up to 6 different timer recordings within a month.

Note: Make sure that the date and time of the DVD Recorder are set correctly.

Timer programming

The Recorder needs the following information for timer programming:

- The date of the recording
 - The channel number of the station or the AV source
 - The starting and finishing time of the recording
 - VPS/PDC on/off
 - The recording quality
- 1. Press the timer button (36) to open the timer menu window.
 - 2. Select the timer programming function using the navigation buttons ▲ ▼ and press the navigation button ► to enter programming mode.



- 3. You can move the marker in programming mode using the navigation buttons ◀ ▶ ▲ ▼ (20). The date is marked - you can change it using the navigation buttons ▲ ▼ or by entering the date directly using the numerical buttons (31). You can also use the select button (22) here to choose whether the recording should take place once, every week or from Monday to Friday.
- 4. Move the marker onto the program number ► and enter it using the navigation buttons ▲ ▼ or by directly entering it using the numerical buttons (31).
- 5. Next, set the starting time of the recording - proceed in the same way as you did when entering the previous data. If you press the SELECT button (22), you can also switch VPS recording on/off for the starting time (see Specialist Terms).
- 6. Now set the stopping time for the recording and use the select button (22) to set the recording quality.

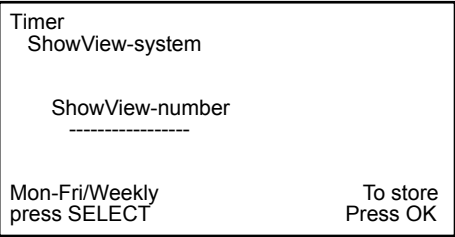
Confirm the settings you have entered with the OK button (23) and close the menu by pressing the timer button. Switch the device to standby mode.

If the recording is carried out correctly, timer appears in the display of the DVD Recorder.

ShowView

The ShowView program system simplifies entering the television programme details. You do not need to enter the starting/stopping time - all that is required is the ShowView number, which can be found in most TV programme guides.

- 1. Press the timer button (36) to open the timer menu.
- 2. Use the navigation buttons ▲ ▼ to select the ShowView System item, and start ShowView programming by pressing the navigation button ►.
- 3. Now enter the ShowView number of the programme that you want to record. Use the select button to choose whether the recording should take place once, every week or from Monday to Friday. Confirm with OK.



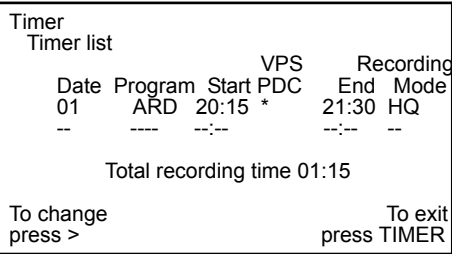
- 4. Enter the channel from which you want to record. You only need to enter this once for each station. The DVD Recorder then automatically assigns the ShowView numbers to the appropriate channel. Confirm your selection with OK.
- 5. The channel number and the starting and stopping time of the TV programme then appear in the display. Check the data, select the recording mode (quality) and confirm your selection with OK.

Close the menu by pressing the timer button (36). Switch the device to standby mode. TIMER appears in the Recorder's display.

Changing or deleting programmed recordings (timer)

If you want to delete an already programmed recording or you want to change the starting time of a programmed recording, you can do so in the timer list.

- 1. Press the timer button (36) to open the timer menu.
- 2. Use the navigation buttons ▲ ▼ to select the timer list menu item and open it by pressing the navigation button ►.



- 3. Use the navigation buttons ▲ ▼ to select the programmed item that you want to change or delete.
- 4. Press the navigation button ► to display the selected programmed item.
- 5. Now use the navigation buttons ◀ ▶ ▲ ▼ to change certain details of the programmed item or delete the programmed item entirely by pressing the clear button (27). Confirm your settings or your decision to delete by pressing the OK button (23).

Automatic recordings from a satellite receiver

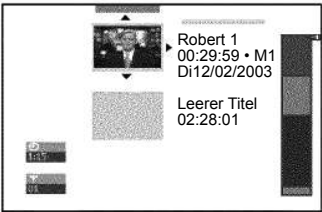
If you have a satellite receiver that is equipped with timer programming and is capable of activating other devices via the SCART cable, you can use this function. Please observe the operating instructions for your satellite receiver. Activate automatic sat recording in the system menu.

- 1. Press the system button (41) to open the selection menu.
- 2. Move the marker onto the user symbol using the navigation button ▲.
- 3. Use the navigation button ► to open the user menu. Now continue moving the marker using the navigation button ► onto the cassette symbol in order to access the recording settings.
- 4. Open the recording settings menu by pressing the navigation button ▼ and then move the marker onto the SAT recording menu item.
- 5. Use the navigation buttons ◀ ▶ to activate or deactivate the SAT recording. Confirm your settings using the OK button (23). You can close the menu by pressing the system button.
- 6. Program your satellite receiver (please follow the operating instructions for your satellite receiver).
- 7. Switch the DVD Recorder to standby.

Managing DVD disc content

General

The following information is created automatically if a recording is made onto DVD.



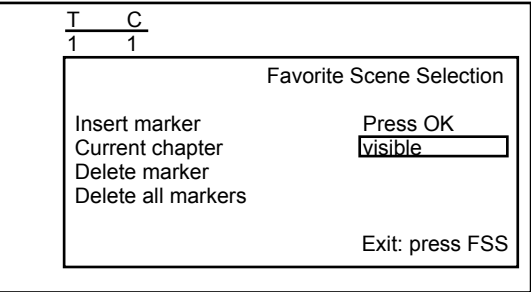
- A name for the recording - if no station name is transmitted, the channel is used as the name for the recording
- Length of the recording
- Recording mode (quality)
- Date of the recording
- Index picture for the disc menu

The recording is automatically divided into individual chapters (see Specialist Terms) - that is if the automatic chapter function has been activated in the system in the recording settings section. Later, you can edit the individual chapters and set extra chapter markers if you like.

You can also hide individual chapters, for instance, in order to hide commercial breaks.

Favourite scene selection (scene memory)

This function allows you to adapt the DVD to your preferences. You can set additional chapter markers or delete them and you can hide chapters (e.g. chapters containing commercials).



Insert chapter markers

During playback, open the favourite scene selection menu by pressing the edit button (35). The menu appears on the TV screen.

- 2. Use the navigation buttons ▲ ▼ to select the marker menu item.
- 3. As soon as playback reaches the point at which you want to set the marker (e.g. you can use the search/skip function to go to that position), press the OK button (23). "Marker inserted" appears on the TV screen.

Exit the function by pressing the edit button.

Hiding chapters

Initially all the chapter are visible. You can, however, hide individual chapters (such as those containing commercials) or make them visible again. During editing, hidden chapters are displayed dimmed.

- 1. During playback, open the favourite scene selection menu by pressing the edit button (35). The menu appears on the TV screen.
- 2. Use the navigation buttons ▲ ▼ to select the "current chapter" menu item.
- 3. Use the ► button to hide or reveal the chapter.

Exit the function by pressing the edit button.

Clearing the chapter marker

Within a title you can clear individual chapter markers or all the chapter markers.

- 1. Whilst playing the relevant chapter, press the edit button (35).
- 2. Use the navigation buttons ▲ ▼ to select the "delete current chapter" menu item or "delete all markers". Confirm your selection with OK.
- 3. The device asks you again whether you are sure you want to clear the chapter markers. If yes, confirm again by pressing the OK button.

Playing whole titles despite individual hidden chapters

You have hidden individual chapters in a title (film) but still want to play the entire title.

- 1. Go to the index menu of the DVD. Use the ▲ ▼ buttons to select the title that you want to play.
- 2. Press the ► button to open the menu for that title.
- 3. Use the ▲ ▼ buttons to select the play whole title menu item and confirm with OK. The title starts playing.

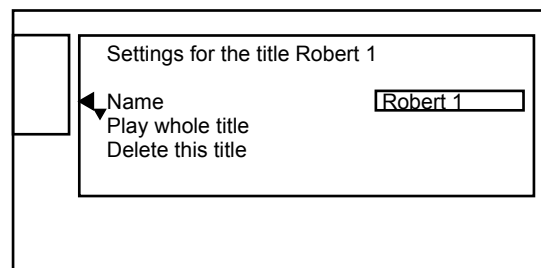
Exit the function by pressing the edit button.

Deleting recorded titles

You can delete individual recorded titles from a disc.

In the case of DVD+RWs, you can simply overwrite the deleted title again.

In the case of DVD+Rs, you can delete a title but the space on the DVD+R will then no longer be available for making other recordings. Deleted title then appears in the index menu and this entry cannot be overwritten.



1. Go to the index menu of the DVD. Use the **▲ ▼** buttons to select the title that you want to delete.
2. Press the **▶** button to open the menu for that title.
3. Use the **▲ ▼** buttons to select the "delete this title" menu item and confirm by pressing the OK button (23). The Recorder asks whether you really want to delete the title. If yes, confirm with OK.

Exit the function by pressing the edit button.

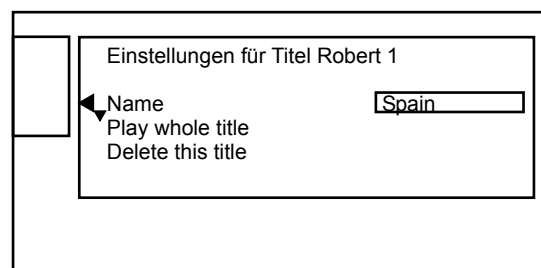
Entering a name for a recorded title or for the whole DVD

You can enter a title name for each recorded title as well as a name for the DVD.

Title name

Go to the disc INDEX of a DVD.

1. Use the navigation buttons **▲ ▼** to select the title that you want to give a name to.
2. Press the navigation button **▶** to open the settings for the selected title.



3. Use the navigation button **▶** to go to the name of the particular title.
4. You can change the highlighted letters using the navigation buttons **▲ ▼** and you can move from one letter to the next within the name using the navigation buttons **◀ ▶**. Confirm your settings using the OK button (23).

You can close the menu by pressing the navigation button **◀** once and the navigation button **▶** once.

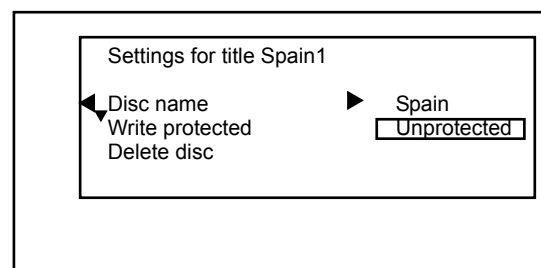
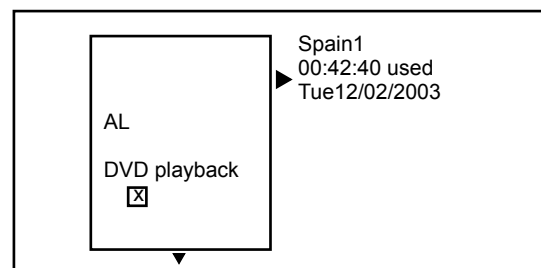
DVD disc name

Insert the DVD that you want to give a name to.

Go to the disc INDEX of a DVD.

1. Press the stop button (29). The first title on the DVD is marked.
2. Move the marker onto the DVD INFO screen using the navigation button **▲**.
3. You can access the settings for the inserted DVD using the navigation button **▶**.
4. Press the navigation button **▶** again to go to the DVD name.
5. You can change the highlighted letters using the navigation buttons **▲ ▼** and you can move from one letter to the next within the name using the navigation buttons **◀ ▶**. Confirm your settings using the OK button (23).

You can close the menu by pressing the navigation button **◀** once and the navigation **▶** once.

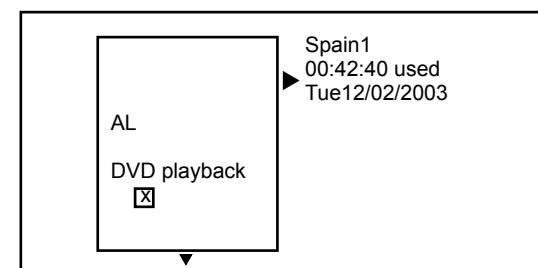


Protecting a DVD against unintentional recording

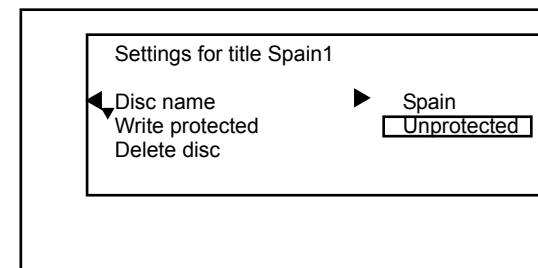
To protect important recordings against unintentional deletion, you can write-protect the entire DVD. It is not possible to protect individual recordings.

Insert the DVD that you want to protect. Go to the disc INDEX of a DVD.

1. Press the stop button (29). The first title on the DVD is marked.
2. Move the marker onto the DVD INFO screen using the navigation button **▲**.



3. You can access the settings for the inserted DVD using the navigation button **▶**.



4. Use the navigation button **▼** to move the marker onto the "Write protection" item.
5. You can access the write protection settings using the navigation button **▶**.
6. Use the navigation button **▼** to select the "protected" item and confirm your setting with the OK button (23).

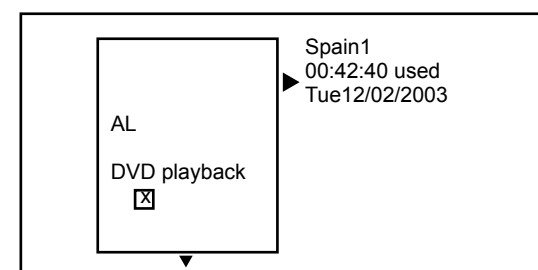
If you want to deactivate write protection again at some later point in time, select the "unprotected" item again.

You can close the menu by pressing the navigation button **◀** once.

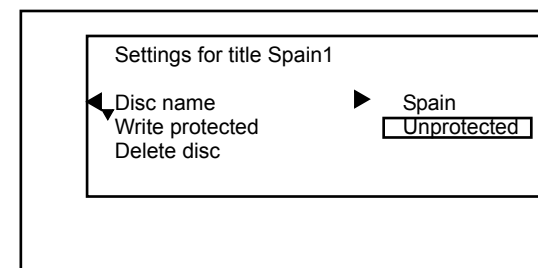
Finalising a DVD+R

This function is necessary if you want to play a recorded DVD+R in a normal DVD player.

1. Go to the index menu of a DVD+R. Go to the disc menu using the **▲** button.



2. Press the **▶** button to open the disc menu.



3. Use the navigation buttons **▶** to select the "Finalise disc" menu item. Confirm your selection with OK (23).

Now it will no longer be possible to record onto the DVD+R or edit it.

The system menu

You can use the system menu to access various submenus in which you can do such things as configure the DVD player or change DVD-related settings.


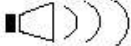




The yellow line in the system menu indicates which navigation buttons you can use at a particular time.

Opening the system menu for the user

1. Press the system button (41). The vertical selection menu for the DVD opens.
2. Move the white marker onto the user icon using the navigation button \blacktriangle .
3. Open the user menu by pressing the \blacktriangleright button. The user menu bar opens.
4. Move the marker in the user menu using the \blacktriangleleft \blacktriangleright \blacktriangleup \blacktriangledown buttons. Take note of the symbols on the yellow line.



User settings for the DVD Recorder

	Picture settings
	Audio settings
	Language settings
	Extra settings
	Recording settings
	Installation

Picture settings

	Picture
Picture format	16:9
Black level settings	Off
Vertical displacement	
SCART video	RGB

Picture format

The signal that is output by the DVD Recorder can be adjusted to suit your television.

- | | |
|---------------|---|
| 4:3 Letterbox | For a wide-screen display with black bars at the top and bottom edges of the screen. |
| 4:3 Panscan | For a picture covering the entire height of the screen, however, in this case the two side edges are cut off. |

Black level setting

For adjusting the colour dynamics for NTSC playback.

Picture displacement

You can displace the picture to suit your television using the \blacktriangleleft \blacktriangleright buttons.

SCART video

The device is set to RGB. To connect using the S-Video socket, select S-Video.

Audio settings

Depending on which audio connections you are using, you can configure the settings for them in this menu.

	Audio
Digital output	All
Analog output	Stereo
Night mode	Off

Digital output

Settings for the devices that are connected to the digital output.

- | | |
|-----------------|---|
| All | Dolby Digital and DTS signals are supplied at the coaxial digital output for use by amplifiers/receivers with digital multi-channel decoders. |
| Only PCM | Dolby Digital signals are converted to PCM signals for receivers/amplifiers that do not have digital multi-channel decoders. |
| OFF | Digital output deactivated - for analog amplifiers connected to the analog RCA audio outputs. |

Analog output

Settings for devices connected to the analog audio output of the DVD Recorder.

- | | |
|-----------------|---|
| Stereo | If the connected device does not have Dolby Surround or Tru Surround - use this setting if you are connecting the device to a television. |
| Surround | Dolby Digital signals are mixed into a Dolby Surround compatible signal - use if a Dolby Surround or Pro Logic decoder is connected. |

Night mode

The night mode optimises the audio dynamics at low volume levels.
This setting only works for Dolby Digital audio on DVD video.

Language settings

	Language
Dubbing language	English
Audio recording	Language 1
Subtitles	English
Menu	English
Country	Miscellaneous

- | | |
|-----------------------|--|
| Audio playback | Select the DVD dubbing language |
| Subtitles | Select the language for activated subtitles |
| Menu | Language of the on-screen menus |
| Country | Select the location where the device is being used |
- www.ls-electronic.de

Disc settings menu

Access check

Automatic resume

Disc functions

Enter code

On

Access check (child lock)

When accessing for the first time, you must enter a password. You must confirm the new password by entering it again.

- Protection level

DVDs that are protected with the child lock are assigned different levels of access rights. Select the level that is suitable for your child.
Level 1 - highest security level for children, Level 8 - lowest level of protection, for instance, for young people, Level -- - Child lock is deactivated.
- Change country

The laws protecting young people are different in different countries. It is therefore necessary for you to enter again the country in which the device is being used.

Status field

During DVD playback, information about the current operating status is displayed on the TV screen, e.g. for playback, fast-forwarding and rewinding, recording and the counter. You can deactivate these displays.

Automatic resume

If you interrupt playback by pressing the stop button or by opening the DVD compartment, playback will be resumed from precisely the point at which you last interrupted it.

Standby

You can save energy by switching off the clock in standby mode.

- Save electricity

The clock time will no longer be displayed in standby mode.
- Normal

The Recorder's display shows the clock time during standby.

Recording settings

This is where you can change the default recording settings.

Recording mode

Recording MODE		Recording duration
HQ (High Quality)	very high recording quality	60 min. on a 4.7 GB DVD blank
SP (Standard Play)	high recording quality	120 min. on a 4.7 GB DVD blank
LP (Long Play)	S-VHS picture quality	180 min. on a 4.7 GB DVD blank
EP (Extended Play)	better than VHS picture quality	240 min. on a 4.7 GB DVD blank
EP+ (Extended Play plus)	VHS picture quality	360 min. on a 4.7 GB DVD blank

Sat recording

This is where you can activate or deactivate the sat recording function as described on page 14.

Autom. chapter

This is where you can activate or deactivate the automatic creation of chapters during recording.

Introduction

What is a DVD

“Digital Versatile Disc” is a high-density optical disc which can store video and sound that has been recorded using digital signals providing a high quality of recording.

Filter mode

- Standard

Normal recording
- Sport

When using the LP, EP and EP+ recording modes to record sports programmes or other recordings which contain very fast movements, you might see some slight picture dropouts when fast movements occur due to the lower quality of these recording levels. The sports filter mode lessens their occurrence.

Installation

Auto. prog. search

This is where you can start a new automatic station search if the search failed during the initial installation or if you want to search for new channels.

Activate the automatic search by pressing the ► button; the search begins.
Please note that all the channels stored so far will be deleted.

Manual search

In some exceptional cases, it might not be possible to find some TV stations. You can configure these stations or coded stations using the manual station search mode.

Installation

Manual search

CH

Channel/Frequency

Enter/Search

Station number

Station name

Decoder

TV system

NICAM

Fine tuning

CH

01

01

ARD

Off

PAL-BG

On

0

To store

press OK

You can move the marker in the search menu using the ◀ ▶ ▲ ▼ buttons.

1.

In manual search mode, you can choose between entering a channel or a frequency.
2.

Use the numerical buttons (31) to enter the channel or the frequency directly.
3.

Enter the channel number where you want to store the new station.
4.

Enter a station name.
5.

Select decoder.
6.

The TV system for Germany is PAL BG; for France it is Secam.
7.

Nicam is not supported in Germany.
8.

Fine tune the station if it deviates slightly.

Sort TV channels

This is where you can sort the found TV channels according to your preferences.
Use the ▲ ▼ buttons to select a station and mark it with the ► button. Select the new position for the station using the ◀ ▶ ▲ ▼ buttons and insert it again using the ◀ button.
To store the new station order, press the OK button.
You can close the menu by pressing the system button.

Time / date

This is where you can set the time and date on the Recorder.
All the settings are configured using the navigation buttons ◀ ▶ ▲ ▼ .
The menu indicates which navigation buttons can be used and when.

Specialist terms

DVD	“Digital Versatile Disc” is a high-density optical disc which can store video and sound that has been recorded using digital signals providing a high quality of recording.
Chapter	Every title on a DVD is made up of a series of numbered sections (“chapters”). This enables you to quickly access parts of the film simply by entering the chapter number.
Regional code	DVDs and DVD players are allocated various regional codes. Each DVD player that is assigned regional code 2 can only play DVDs that are also assigned regional code 2. This function allows the filmmakers to precisely control where and when a new film is released in the world. For example, this is supposed to prevent a film, which has been released in the United States six months earlier than in Germany, from being played in Germany.
RGB	The 3 colours red, green and blue are sent straight to the television via the SCART cable. If your television is capable of processing these signals, you will obtain the best picture quality using this type of connection. To find out whether your device can process RGB signals, please read the operating instructions that came with your television set or ask your television dealer.
SCART cable	The SCART cable (also known as the AV cable) provides the highest quality connection with the DVD Recorder since it also carries the separate colour signals RGB (red, green, blue). If possible, use SCART connections to connect your television, DVD Recorder and peripheral devices.
S-Video	This type of connection (also known as SVHS) provides a good picture quality since brightness and colour are carried separately. An S-Video cable only carries the video signal. Therefore, if you have chosen to use the S-Video connection, you must additionally connect the audio-out sockets of the DVD Recorder to your television or stereo sound system.
Title	If two or more films are recorded on a DVD, each of these titles is given a number (1, 2, etc.).
VPS/PDC	A VPS/PDC signal is broadcast by TV stations when a programme begins. It is used to start the Recorder. If the VPS/PDC function is activated, the Recorder will only start a programmed recording when the TV programme actually begins. Note: Not all stations broadcast a VPS signal. If you program a recording with the VPS signal function activated but the TV station does not broadcast this signal, the Recorder will not start recording.

Specifications

Voltage supply:	Device	230 V/50 Hz
	Remote control	2 micro UM-4 batteries of type "AAA"
Playable media:	DVD, DVD+R, DVD+RW, DVD-R, CD, CD-R, CD-RW	
Recordable media:	DVD+R, DVD+RW	
Video format:	MPEG 2/MPEG 1	

This product includes technologies that are protected by copyrights (various US patents and further copyrights of Macrovision Corporation and other owners).

Use of these technologies must be authorised by Macrovision Corporation; furthermore, their use is only intended for the home environment and restricted applications.

Other utilisation is only possible after obtaining authorization from Macrovision Corporation.

Making copies of the construction and dismantling is prohibited.

Troubleshooting

- If a problem arises, please check the following table first.
- If the problem cannot be solved, please contact our service hotline

Problem	Cause
The device does not react when you press a button. "15 TV ON2" appears in the display.	<ul style="list-style-type: none">• Device in initial installation mode: Switch on the television set and then switch to the socket of the DVD Recorder. The language selection menu should then appear. Now read the "Installing for the first time" section in the "Getting ready for use" chapter.
The device does not react when you press a button	<ul style="list-style-type: none">• No mains power supply: Check the mains power supply• Programmed recording (timer) is currently running: If necessary, cancel the programmed recording (timer) by pressing the STANDBY button.• Technical fault: Unplug the mains power plug for 30 seconds and then plug it back in again. If that does not help, you can reset the DVD Recorder to its original state (factory default settings).
Reset the device to the factory default settings	<ul style="list-style-type: none">• Caution: All data stored in memory (channels, clock time, TIMER) will be reset (deleted).<ol style="list-style-type: none">1. Unplug the mains power plug from the mains socket.2. Press and hold down the STANDBY/ON button on the device and plug the mains power plug back into the mains socket.3. As soon as the "15 TV ON2" display appears, let go of the STANDBY/ON button. All data stored in memory (channels, clock time, TIMER) will be reset (deleted). Now read the "Installing for the first time" section in the "Getting ready for use" chapter.
The remote control does not work:	<ul style="list-style-type: none">• Remote control was not pointed at the device: Does "o(/" appear in the display every time you press a button? If this indicator lights up, this means that the DVD Recorder is receiving the signal.• Technical fault: Remove the batteries, wait for approx. 10 seconds and then put them back in.• Weak batteries: replace the batteries.
The DVD Recorder does not play	<ul style="list-style-type: none">• No recording on the disc: Change the disc.• Wrong type of disc inserted. Only the following types of disc can be played: DVD Video, (Super) Video CD, DVD+R(W), Audio CD, MP3 CDs.• Disc is dirty: Clean the disc.• Wrong regional code: The regional code of the DVD and of the DVD Recorder must match one another.• Child lock activated: Read the chapter entitled "Access check (child lock)"• The channel number (on the television) that is assigned to the DVD Recorder was selected or configured incorrectly: Select the correct channel number on the television.• Cable connection between the television set and the DVD Recorder is interrupted: Check the connecting cable.
I cannot play (Super) Video-CDs	<ul style="list-style-type: none">• It is possible that this (Super) Video-CD contains a menu and the "PBC" function is deactivated. This is indicated by "PBC OFF" in the status field. To activate the function, proceed as follows:<ol style="list-style-type: none">1. Whilst a (Super) Video-CD is inserted, press the SYSTEM MENU button.2. Use the ◀ or ▶ button to select the "T" symbol.3. Use the CH-▼ or CH+▲ button to select the "Functions" line and then confirm your choice by pressing the X button.4. In the "PBC" line, use the CH-▼ or CH+▲ button to select "On".5. Confirm your selection with the OK button and exit using the SYSTEM MENU button.
Poor quality playback from the DVD Recorder (distorted picture/distorted sound)	<ul style="list-style-type: none">• Television set is not set up correctly.• Disc is dirty: Clean the disc.• Sometimes slight picture distortion occurs. This is not the result of a problem with your device.
Recording is not possible	<ul style="list-style-type: none">• TV station not stored or selected incorrectly: Check the stored TV stations.• Disc is write-protected against making a recording: Deactivate write-protection or change the disc. In the "Manual recording" chapter, please read the section entitled "Protecting a DVD against unintentional recording"• A DVD+R that has already been finalised is inserted: Change the disc.
Programmed recording does not work	<ul style="list-style-type: none">• Clock/date is not set correctly: Check the clock/date.• Recording (timer block) is programmed incorrectly: Check the programmed recording (timer block).• A locked disc is inserted: Deactivate the lock for the disc.• A DVD+R that has already been finalised is inserted: Change the disc.• "VPS/PDC" is activated but "VPS/PDC time" is incorrect: Enter the "VPS/PDC time" accurate down to the minute. Check the aerial.
After a "programmed recording using the ShowView system", the wrong TV station was decoded (recorded)	<ul style="list-style-type: none">• <ol style="list-style-type: none">1. Enter the ShowView programming number for the required TV station.2. Confirm with the OK button.3. In the "Prog." input field, check the displayed channel number or station description.4. If this does not match the TV station that you want, select the input field and change the channel number / station description.5. Confirm with the OK button.
Picture/sound interference during television reception	<ul style="list-style-type: none">• For playback via the internal TV receiver (tuner) (MONITOR button), set the recording mode to "HQ" using the REC MODE button. This will ensure the best picture quality possible.• Have someone check your aerial system.
The picture is distorted or in black & white during playback	<ul style="list-style-type: none">• The TV system of the disc does not comply with the TV system of your television set (PAL/NTSC).• The recording can only be made in colour if the TV station or the connected peripheral device also supplies colour information. Black & white signals without colour information cannot be recorded.
No audio available at the digital output	<ul style="list-style-type: none">• Check whether the sound settings are correct for the selected connections and connected devices.
A DVD+RW disc cannot be played on certain DVD players	<ul style="list-style-type: none">• If a recording is very short, a DVD player might not be able to detect its presence: Please observe the following "minimum recording times": Recording quality "HQ": 5 minutes, "SP": 10 minutes, "LP": 15 minutes, "EP": 20 minutes, "EP+": 30 minutes• Some DVD players are not capable of playing DVD+RW recordings.