

LOEWE.

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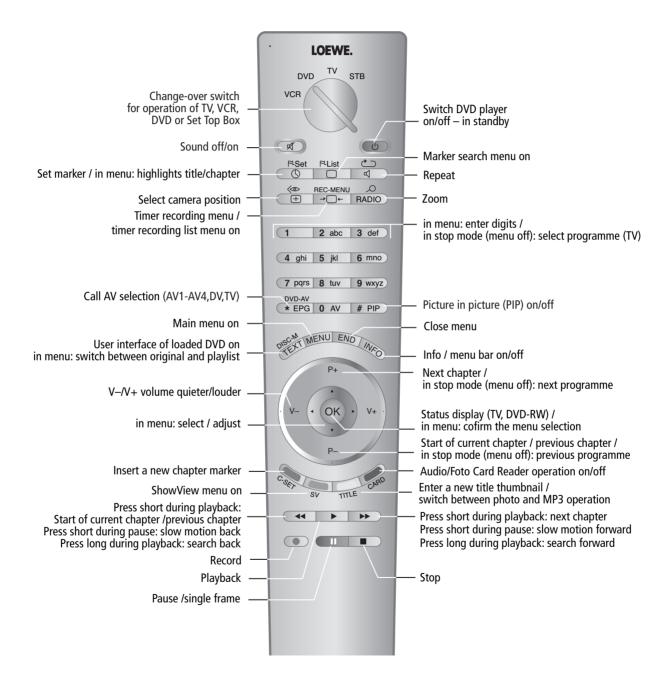
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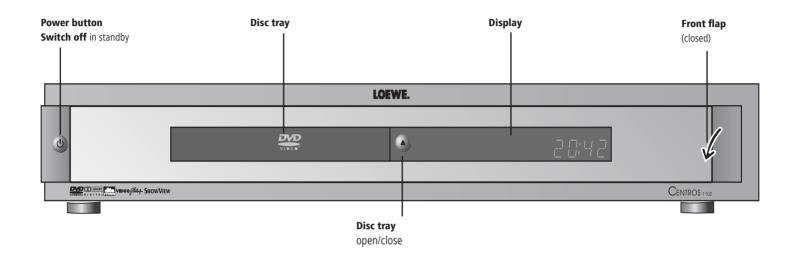
Additional Screen Menus

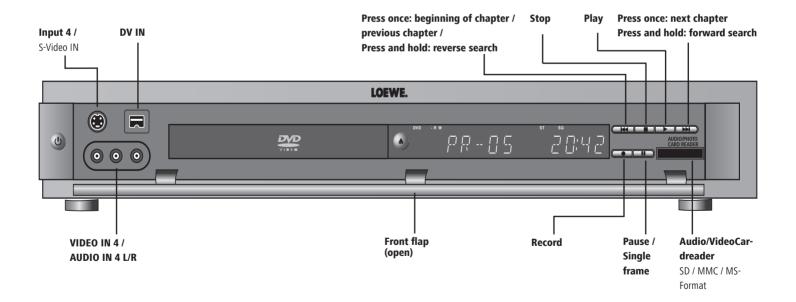
Remote control RC3 – DVD operation



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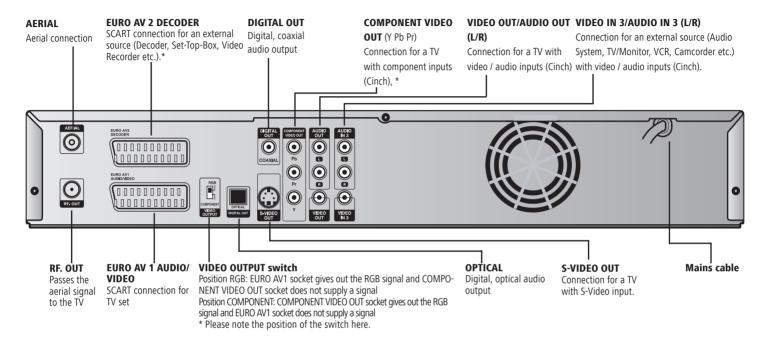
Centros Front Panel



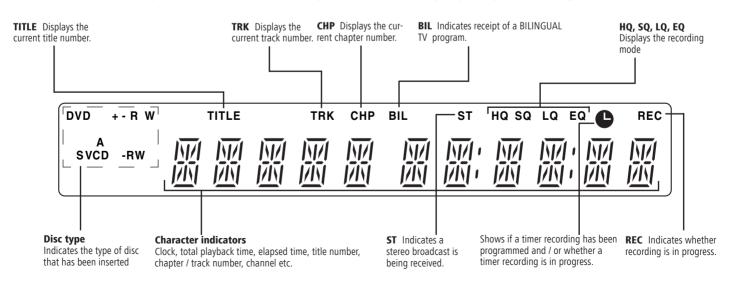


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Centros Rear Panel & Display



Caution: Do not touch the inner pins of connection sockets on the rear panel. Electrostatic discharge may cause permanent damage to the unit.



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Welcome

Thank you

for choosing a Loewe product. We are happy to welcome you as our customer.

At Loewe we combine the highest standards of technology, design and user friendliness. This is equally true of TV, DVD, video, audio and accessories.

Neither technology nor design is an end in itself, but both are intended to provide our customers with the best possible audio and visual experience.

Our design is not influenced by short-term, fashionable trends. You have, after all, purchased a high-quality piece of equipment which you do not want to get tired of looking at tomorrow or the day after.

Scope of delivery

- · Loewe Centros DVD recorder
- RC3 remote control with 2 batteries
- Euro AV cable (Scart cable)
- · Audio cinch cable
- · Video cinch cable
- · Antenna cable
- 1x DVD-RW disc
- · this operating manual

You can use the remote control to operate four units: as well as this DVD recorder, a Loewe television, a Loewe video recorder and a set-top box (STB).

Set up

- · Place the DVD recorder on a firm, level base.
- Do not place the DVD recorder in the vicinity of sources of intense heat or in direct sunlight.
- When installing in a cabinet or enclosed shelf: Leave about 2.5cm free space around the DVD player for unhindered air circulation to prevent build-up of heat.

- There can be interference to the images and sound of any nearby television, video recorder or radio. If this occurs, do not place the unit near to a television, video recorder or radio, or switch the unit off after removing the disc.
- Install the DVD recorder where there is nothing to obstruct the remote control's infrared signal from reaching the DVD recorder display.
- Do not place strong artificial light sources in front of the device. This may affect infrared reception.
- If there is an electrical storm, disconnect the antenna and mains plug. Power surges caused by lightning strikes can damage the unit through the antenna system or the mains.
- The antenna and mains should also be disconnected if the unit is to remain unsupervised for a long period of time.
- The mains plug must be easily accessible so that the unit can be disconnected at any time.
- Lay the cable in such a way that it cannot get damaged. The power cable should not be kinked or laid over sharp edges, not stood upon or exposed to chemicals - the latter also applies to the device as a whole. A mains cable with damaged insulation can cause electric shocks and is a fire hazard.
- When removing the power plug, pull the body of the plug, and not the cable. Otherwise, the wires in the plug could get damaged and cause a short circuit the next time it is plugged in.

You should also read and follow the safety advice on the following pages.

Disposal

Cardboard box and packaging

You have opted for a durable and technically sophisticated product. In line with national regulations regarding the disposal of packaging materials, we pay a fee to authorised recyclers who collect packaging from dealers. However, we recommend that you keep the original cardboard box and the rest of the packaging materials so that the unit can, if necessary, be transported in the safest possible conditions.

The unit



Important: The EU Directive 2002/96/EG governs the proper re-acceptance, handling and recycling of used electronic appliances.

Old electronic appliances must therefore be disposed of separately. Never throw this set in the normal domestic waste. You can hand in your old set free of charge at identified collection points or at your dealer if you buy a similar new set. Other details about re-acceptance (also for non-EU countries) are available from your local administration.

Remote control batteries

The batteries provided contain no harmful materials such as cadmium, lead or mercury.

Regulations concerning used batteries mean that batteries may no longer be thrown out with the household rubbish. You can dispose of used batteries free of charge at the collection points in commercial outlets. Your dealer will also have a collection point for used batteries.

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Welcome

Cleaning

- Only clean your DVD recorder with a damp, soft, clean cloth (with no aggressive cleaning agents).
- If DVD recorder fails to read the disc correctly, the reader unit in the device may be soiled. Use a commercially-available cleaning disc.
- Always keep the disc drawer closed to prevent dust getting into the drawer and onto the lens.

For your safety

For your own safety and to avoid unnecessary damage to your unit, please read and follow the safety advice below:

- This DVD recorder is only to be used for receiving, displaying and playing visual and sound signals.
- Switch off your DVD system (Centros, TV and any other audio components which may be connected) before connecting or disconnecting other devices or speakers.

CLASS 1 LASER PRODUCT KLASSE 1 LASER PRODUKT LUOKAN 1 LASER LAITE KLASS 1 LASER APPARAT CLASSE 1 PRODUIT LASER

 Do not open up the housing, or you could be directly exposed to the laser beam. The laser beam will be visible if the unit is open.
 DO NOT LOOK INTO THE LASER BEAM. Protect your DVD recorder from ...

- liquids and damp
- · shock and mechanical stress
- · magnetic and electrical fields
- cold, heat, direct sunlight and extreme fluctuations in temperature
- dust
- anything which obstructs ventilation
- manual interference with the unit's interior

Your Centros has only been designed for use in a domestic environment. The warranty covers this normal use of the DVD recorder.

PLEASE NOTE: TO AVOID RISK OF ELECTRICAL SHOCK, DO NOT REMOVE THE COVER (OR THE REAR OF THE UNIT). THERE ARE NO PARTS INSIDE THE UNIT THAT CAN BE REPAIRED BY THE USER. REPAIRS SHOULD ONLY BE CARRIED OUT BY A LOEWE DEALER.

If you have moved the DVD recorder from a cold to a warm environment, leave it to stand for about an hour because of the risk of condensation building up. Do not switch it on until it has reached room temperature. This will avoid seriously damaging the components.

Read this operating manual, and experiment with your new equipment's features so that you are familiar with it.

Advantages of connection to a Loewe TV set

You can use **Digital Link** to install the DVD recorder e.g. in an enclosed rack or a wall unit, without there being direct visible contact with the DVD recorder. Using the DVD remote control, you can operate the DVD recorder via the Loewe television. To do this, Digital Link must be switched on at the DVD recorder (see page 17). If you want to make timer recordings from the satellite tuner in the television, the recording is controlled by Digital Link.

Digital Link Plus enables channel data to be transferred from the television's satellite and cable channels to the DVD recorder, so that the same channels appear in the same channel position. This means that timer recordings of satellite and cable channels can easily be programmed from the television using the EPG (Electronic Program Guide). The timer data is copied to the DVD recorder, which then, independently of the television, carries out the timer recording. With timer data for satellite stations, the television starts and stops the DVD recorder and sets it to the Euro AV 1 input. If playback begins, this is immediately shown on the television, no matter which TV channel you are currently watching (if the television is switched off, it will automatically switched on).

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Writable Discs



DVD-RW (Digital Video Disk - ReWritable)

These discs can be written to several times. Recordings can be deleted and the disc can then be rewritten.



DVD-R (Digital Video Disk - Recordable)

These discs can be written to only once. Following finalisation a DVD-R disc can no longer be written to or edited.



DVD+RW (Digital Video Disk +ReWritable)

These discs can be written to several times. Recordings can be deleted and the disc can then be rewritten.



DVD+R (Digital Video Disk + Recordable)

These discs can be written to only once. Following finalisation a DVD-R disc can no longer be written to or edited.

Notes:

- This recorder cannot write to CD-R or CD-RW discs.
- DVD-R/RW, DVD+R/RW and CD-R/RW discs written to using a PC or a DVD or CD recorder cannot be played if the disc is damaged or dirty or if there is condensation on the recorder's lens.
- If you record a disc using a PC, even if it is in a compatible format, the disc may not play depending on the settings of the application software used to create the disc. (Further information can be obtained from the software provider.)

Playable Discs



Video-DVD



Video-CD (VCD) (8 cm / 12 cm disc)



Audio-CD (8 cm / 12 cm disc)

In addition this unit can play DVD-R/DVD-RW discs, DVD+R/DVD+RW discs, CD-R/CD-RW discs containing audio titles, MP3* or JPEG files, SVCD and Kodak picture CDs.

* including MP3 discs with ID3-Tag

Notes:

- Depending on the recording unit or the CD-R/RW (or DVD±R/±RW)disc itself, some CD-R/RW (or DVD±R/±RW) discs cannot be played with this unit
- Do not attach any labels to either side (the labeled side or the written side) of a disc.
- Do not use any irregularly shaped CDs (e.g. heart-shaped or octagonal). If you use these discs malfunctions may occur.

Regional code of the DVD recorder and DVDs



This DVD recorder can only play Region "2" or "all" coded DVDs. The region code on the label of some DVDs shows which type of DVD recorder can play those discs. If you

play other discs the error message "Incorrect region code. Playback not possible." will be displayed on the TV screen.

Some discs may not have the label with the region code even though they cannot be played in all regions.

Notes on DVDs and Video CDs: Some DVDs and Video CD playback functions can be programmed in a particular way by some software manufacturers. As this unit plays DVDs and Video CDs as they have been designed by the software manufacturer, some playback functions may not be available whilst other additional functions may be available. Further information can be found in the instructions supplied with the DVDs and Video CDs. The unit may not be able to play some DVDs made for specific business purposes.

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Disc-related Terms

Title (DVD only)

A title is the main film content or the content of the accompanying feature or the music album. Each title has a title number enabling you to locate it easily.

Chapter (DVD only)

Chapters are sections of a film or a piece of music that are smaller than a title. A title consists of one or several chapters. Each chapter has a chapter number to enable you to locate the desired chapter. Depending on the disc, chapters may not be labeled.

Track (Video CD or Audio CD only)

Sections of a film or a piece of music on a Video CD or an Audio CD. Each track has a track number to enable you to find the desired track.

Scene

On a Video CD with PBC (Playback Control) functions, moving pictures and still pictures are divided into sections that are called "scenes". Each scene is displayed in the scene menu and has a scene number to enable you to find the scene quickly. A scene consists of one or more tracks.

Types of Video CDs

There are two types of Video CDs:

Video CDs equipped with PBC (Version 2.0)

PBC (Playback Control) functions enable you to interact with the system via menus, search functions or other typical computer operations. In addition high-resolution still pictures can be displayed if they are available on the disc.

Video CDs not equipped with PBC (Version 1.1)

These discs are operated in the same way as Audio CDs and allow playback of video pictures and sound. They are not however equipped with PBC.

Symbols

The \circ symbol on the screen

During operation "\ointilde{\Ointilde{O}}" may appear on the screen. This symbol means that the desired function is not currently available on this disc.

Disc symbols in the operating instructions

If part of the operating instructions contains one of the symbols listed below, the section is only applicable to the disc shown on the symbol.

Many functions of this recorder are dependent on the selected recording quality. One or more of the symbols (*DVD*, *Video*, +*RW*, *MP3*) are displayed for each function described in the manual so that you can immediately see whether the disc supports this function.

Video DVD-R/RW disc with VR recording mode

VR DVD-RW disc with VR recording mode +R DVD+R disc +RW DVD+RW disc DVD DVD-Video disc

 DVD
 DVD-Video

 VCD
 Video CD

 CD
 Audio CD

 MP3
 MP3 CD

 JPEG
 JPEG CD

The finalized DVD disc is a DVD-Video disc.

DVD-R and DVD-RW discs

How are DVD-R and DVD-RW discs different?

The essential difference between a DVD-R and a DVD-RW disc is the fact that a DVD-R disc can only be written to once, whilst a DVD-RW disc can be written to several times. In addition, its content can be deleted. You can write to and delete a DVD-RW disc approx. 1000 times.

Playback of writable discs on normal DVD players

DVD-R discs and DVD-RW discs written to in Video mode can be played on some normal DVD players. They must however be finalized first. This process fixes the content of the disc so that it can be read by other DVD players as a DVD-Video disc.

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What are "Recording Modes"?

This recorder offers two recording modes: VR mode and Video mode. Recordings on DVD-R discs are always in Video mode. Recordings on DVD-RW discs can be in either VR or Video mode.

DVD-R and DVD-RW Discs

VR Mode Recording

- 4 possible picture quality/recording time settings (EQ, LQ, SQ, HQ), see page 24.
- Cannot be played on normal DVD players.
- · Recordings can be comprehensively edited.
- Use of original lists and playlists (see page 48 and 49).

Video Mode Recording

- 4 possible picture quality/recording time settings (EQ, LQ, SQ, HQ), see page 24.
- Can be played on normal DVD players (after finalization)
- Limited editing functions.

Note: The "Video mode" DVD-Video format is a new format for recording on DVD-R/RW discs that was approved by the DVD Forum in 2000. For this reason you may experience problems playing writable DVD discs on some players. Symptoms include video artifacts, audio and/or video dropout and playback stopping suddenly. Our company cannot take any responsibility for problems playing discs recorded on this recorder on other players.

Use of "Original" and "Playlist"

Throughout this manual you will often see the words "Original" and "Playlist" used to describe the actual content and the edited version.

- **Original**: Content refers to what is actually recorded on the disc.
- Playlist: Content refers to the edited version of the disc, i.e. how the original content should be played.

DVD+R and DVD+RW Discs

Recording on DVD+RW Discs

- 4 possible picture quality/recording time settings (EQ, LQ, SQ, HQ), see page 24.
- Can be played on many DVD players that support the +RW format (where appropriate, only after finalization).
- Titles/chapters of recordings can be edited.
- Edited content can only be played after finalization on some DVD players.

Recording on DVD+R Discs

- 4 possible picture quality/recording time settings (EQ, LQ, SQ, HQ), see page 24.
- Can be played on many DVD players that support the +R format (where appropriate, only after finalization).
- · Limited editing of titles/chapters.
- Edited content cannot be played on normal DVD players. (Hide, combined chapters, added chapter markers etc.).

DVD Recordings

Note: Fingerprints and scratches on the disc can affect playback and/or recording. Take proper care of your discs.

Disc Types and Recording Formats, Modes and Settings

This recorder can play five different types of DVD disc:

- DVD-Video disc
- · DVD-RW disc
- DVD-R- disc
- DVD+RW disc
- · DVD+R- disc.

A DVD-R disc is always formatted in "Video Format" - the same as prerecorded DVD-Video discs, i.e. after finalization you can play a DVD-R disc on a normal DVD player.

"Video Recording Format" (VR) is the default format for a DVD-RW disc. If required, the disc can be changed to Video format through subsequent reformatting ("Disc - Formatting" in the main menu) (Caution! The contents of the disc will be erased).

The recording quality is closely related to the formatting.

If the disc format is Video Recording format, the recording mode for the disc is referred to as "VR mode". However, the recording mode of a Video format disc is referred to as "Video mode" (Exception: a prerecorded DVD-Video disc which is not recordable has no recording mode).

The recording modes determine the recording and editing options for the whole disc. Amongst other things they determine the picture quality and how much space the recording will take up on the disc.

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Notes on Recording

- The displayed recording time is not exact as the recorder uses variable bit-rate video compression. This means that the exact recording time will depend on the material that is being recorded.
- When recording a television broadcast the recording time may be shorter if the reception is poor or the picture contains interference.
- If you record only still pictures or audio, the recording time may be shorter.
- The displayed recording time and remaining time may not always add up to the total length of the disc.
- The available recording time may be shorter following intensive editing of the disc.
- If you use a DVD-RW disc, make sure you select the recording format (Video mode or VR mode) before you start recording. See page 25 (Formatting) for more information.

- If you use a DVD-R disc you can continue recording until the disc is full or until you finalize it. Before you start recording check how much recording time is available on the disc.
- If you use a DVD-RW disc in Video mode, the available recording time will increase if you delete the last title recorded on the disc.
- The "Delete Title" function in the "Title List-Original" menu only hides the title, it does not however delete it from the disc and does not therefore increase the recording time (except if you delete the last recorded title on a DVD-RW disc in Video mode).
- Overwrite recording is only possible on DVD+RW discs

Disc type	Formatting	Recording mode	Functions	
DVD-Video	Not possible	Not applicable	Playback only	
DVD-RW			Playback, recording, original/playlist editing	
	Video format	Video mode	Playback, limited recording, limited editing	
DVD-R	Video format	Video mode	Playback, limited recording, limited editing	
DVD+RW	+RW Video format	Video mode	Playback, limited recording, editing of titles/chapters	
DVD+R	+R Video format	Video mode	Playback, limited recording, limited editing of titles/chapters	

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Recording TV-Audio Channels

This recorder can also record NICAM audio. If the NICAM setting (page 20) is set to "Auto", NICAM audio will be recorded in the case of a NICAM transmission.

Restrictions on Video Recording

- You cannot record any copy-protected film material with this recorder. Copy-protected video includes DVD-Video discs and some satellite transmissions. If copy-protected material is encountered during recording, recording is paused or stopped automatically and an error message appears on the screen.
- Video that can only be copied once can only be recorded using a DVD-RW disc in VR mode with CPRM (see below).
- NTSC format signals from analog or DV inputs cannot be recorded correctly with this recorder.
- SECAM format video signals (from an integrated TV tuner or from analog inputs) are recorded in PAL format.

CPRM

CPRM is a copy protection system (with scramble system) that only allows the recording of "copy once" broadcasts. CPRM is the abbreviation for "Content Protection for Recordable Media".

This recorder is CPRM compatible. You can therefore record copy-once broadcasts but cannot make copies of these recordings. CPRM recordings are only possible with VR mode formatted DVD-RW discs and can only be played on players with CPRM compatibility.

Copyright

- The recording equipment should only be used for lawful copying. You should find out what constitutes lawful copying in the country in which you are making a copy. Copying of copyrighted material e.g. films or music is only lawful if permitted by a legal exception or consented to by the rights owner.
- The product contains copyright protection technology that offers protection through certain US patents and other intellectual property rights and is the property of the Macrovision Corporation and other companies. Use of this copyright protection technology must be authorized by the Macrovision Corporation. It is only intended for private or other limited use unless otherwise authorized by the Macrovision Corporation. Reverse engineering and disassembly are prohibited.

Initial Remote Control Setup



To insert or change the batteries, press on the imprinted arrow. Sldie off and remove the battery compartment cover. Insert alkaline-manganese LR 03 (AAA) type batteries and make sure the + and – poles are aligned correctly.

Then, replace the cover.

Resetting the DVD Recorder

If any of the following problems occur...

- The unit is plugged in but will not turn on or off.
- The display panel does not work.
- The DVD recorder is not functioning normally.

.., the DVD recorder can be reset in the following way:

- Hold the button down for at least 5 seconds.
 The unit will switch off. Press the button again to switch the unit back on.
- or unplug the power cable, wait at least 20 seconds and plug the cable back in.

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Shipping the Unit

The original shipping box and packaging materials should be used to ship the unit. To give the unit the best possible protection, repack it as it was originally packed by the manufacturer.

Notes on Discs

Handling Discs

Do not touch the prerecorded side of the disc. Hold the disc at the edges so as not to touch the surface with your fingers. Do not stick paper or tape to either side of the disc.



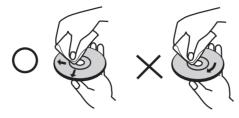


Storing Discs

After playing, store the disc in its case. Do not expose the disc to direct sunlight or a source of heat and never leave it in a parked car exposed to direct sunlight as there may be a considerable increase in temperature inside the car.

Cleaning Discs

Fingerprints and dust on the disc can affect the picture and sound quality. Clean the disc before playing it with a clean cloth. Wipe the disc from the center outwards.



Do not use any strong solvents such as alcohol, benzine, thinner, commercially available cleaners or anti-static sprays intended for vinyl records.

Connections - General

Notes:

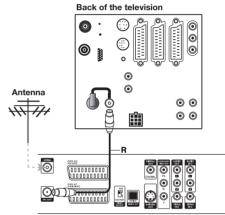
- Depending on your television set and the other units you want to connect, there are several ways of connecting your recorder to your TV set. Only use the connection methods described below
- Refer as necessary to the manuals for your television, DVD recorder, stereo system and other units in order to make the best possible connections.

Caution:

- The DVD recorder must be connected directly to the television. Tune the television to the correct video input channel.
- Do not connect the DVD recorder AUDIO OUT socket to the audio system Phono In socket.

Connecting to the Aerial

Remove the existing aerial cable plug (for terrestrial or cable televisions) from the television and plug it into the aerial socket on the back of the DVD recorder ("AERIAL" socket). Plug one end of the supplied aerial cable into the TV socket on the DVD recorder ("RF. OUT") and the other end into the aerial socket on the television.



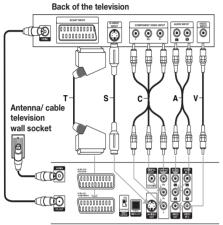
Back of the DVD recorder

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Connecting to the Television

Make one of the following connections depending on the functionality of your existing equipment.



Back of the DVD recorder

SCART Connection (e.g. Loewe TV)

Connect the EURO AV1 AUDIO/VIDEO Scart socket on the DVD recorder to the corresponding input socket on the television using Scart cable **(T)**.

Video Connection

Connect the VIDEO OUT socket on the DVD player to the Video input socket on the television using Video cable (V).

S-Video Connection

Connect the S-VIDEO OUT socket on the DVD player to the S-Video input socket on the television using S-Video cable **(S)**.

Component Video Connection

Connect the COMPONENT VIDEO OUT socket on the DVD recorder to the corresponding input socket on the television using a Y Pb Pr cable **(C)**.

Audio Connection (Left/Right)

Connect the left and right AUDIO OUT sockets on the DVD recorder to the left and right IN sockets on the television using the audio cable (A).

What is "Digital Out"?

If your Loewe TV set has an AC3 module or a DIS module you should connect to with the DVD recorder using Digital Audio. Connect the DIGITAL OUT socket on the DVD recorder to the DIGITAL IN socket on the TV set. Then assign the AV socket on the TV set to the DIGITAL IN socket using the TV menu SETTINGS → AV-SETTINGS → AUDIO DIGITAL.

Note: If you use the COMPONENT VUDEO OUT connections, switch the VIDEO OUTPUT switch to COMPONENT. If you use the SCART socket, switch the VIDEO OUTPUT switch to RGB.

Connecting to a Set Top Box / Satellite Receiver

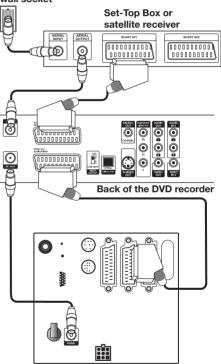
If you use a cable or satellite receiver with integrated decoder, connect it to your recorder and television set as described below. If you use a separate decoder box for your cable/satellite television, follow the instructions in the next section "Connecting to an External Decoder Box".

- 1. Connect the aerial cable as shown. This enables you to watch and record TV channels.
- Connect the EURO AV1 AUDIO/VIDEO socket to a EURO AV socket on your television using the SCART cable. This enables you to watch discs.
- Connect the EURO AV2 DECODER socket to the EURO AV socket on your Set Top Box / satellite receiver using a SCART cable. This enables you to watch the TV channels.

Notes: This recorder is equipped with a "Loop-Through" function. This function enables you to record a television broadcast from this recorder's integrated TV tuner whilst watching a satellite or Set Top Box channel (see page 43).

Do not connect the recorder "via" your video recorder, satellite receiver or Set Top Box.

Antenna/ cable television wall socket



Back of the television

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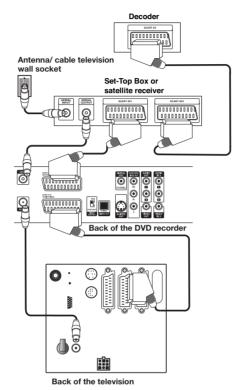
Connecting to an External Decoder Box

If you use an external decoder box for your satellite or cable TV system, follow the connection procedure described below.

- Connect your aerial socket in the wall to the aerial input socket on your Set Top Box / satellite receiver using an aerial cable.
- Connect the decoder to the EURO AV DECODER socket on the Set Top Box /satellite receiver using a SCART cable. Further instructions can be found in the manual for your decoder box.
- 3. Connect the EURO AV2 socket on the DVD recorder to a EURO AV socket on your Set Top Box / satellite receiver using a SCART cable.
- Connect the EURO AV1 socket on the DVD recorder to a EURO AV socket on your television using the SCART cable.

Caution:

- Do not connect the decoder box directly to your recorder
- Information from the decoder (e.g. about Pay TV services) can only be viewed if the recorder is switched off (standby mode).
- For timer recordings to work properly on this recorder, the satellite / Set Top Box must also be switched on during recording.
- With this configuration you cannot watch one television broadcast and record another at the same time.



Connecting to an Amplifier

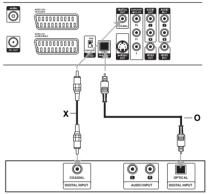
Connecting to an amplifier equipped with analog 2 channel stereo or Dolby Pro Logic II / Pro Logic

Connect the left and right AUDIO OUT sockets on the DVD recorder to the left and right AUDIO IN sockets on the amplifier, receiver or stereo system using the audio cable (A).

Connecting to an amplifier equipped with two channel digital stereo (PCM) or to an Audio/Video receiver equipped with a multi-channel decoder (Dolby Digital™, MPEG 2 or DTS).

- Connect one of the DIGITAL AUDIO OUT sockets (OPTICAL O or COAXIAL X) on the DVD recorder to the corresponding input socket on your amplifier. Use the appropriate digital audio cable (Optical O or Coaxial X).
- 2. You must configure the digital output of the recorder (see "Audio" on page 22).

Back of the DVD recorder



Amplifier (Receiver)

Digital Multi-Channel Sound

A digital multi-channel connection offers the best sound quality. For this you need a multi-channel Audio/Video receiver that supports one or more audio formats e.g. MPEG 2, Dolby Digital and DTS. More information can be found in the receiver manual and on the logos on the front of the receiver.

Caution: Due to the DTS licensing agreement the digital output will be to DTS Digital Out when a DTS audio stream is selected.

Notes:

If the audio format of the digital output does not

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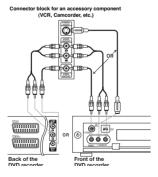
correspond to the capabilities of your receiver, the receiver will emit a strong distorted sound or no sound at all.

- 5.1 digital surround sound via the digital connection can only be obtained if your receiver is equipped with a digital multi-channel decoder.
- You can obtain information about the audio format of the current DVD via the "Disc Info" menu (see page 28 and 33).
- This recorder does not perform internal (2-channel) decoding (downmix) of a DTS sound track.
 To enjoy DTS multi-channel surround sound, you must connect this recorder to a DTS compatible receiver via one of the recorder's digital audio outputs.

Connecting to Audio/Video (A/V) Accessories

Connect the DVD recorder's input sockets (AV3 = AUDIO IN 3 / VIDEO IN 3 on the back of the unit or AV4 = input 4 on the front of the unit (see page 4)) to the audio/video out sockets on the accessory component using audio/video cables.

Note: If you use the S-VIDEO IN socket on the front panel, the VIDEO IN socket on the front panel cannot be used.

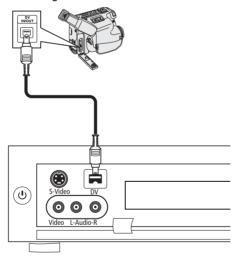


Connecting to a Digital Camcorder

You can connect a digital camcorder (DV) or a digital DVD-R/RW recorder to the DV IN socket on the front panel and digitally transfer the content of DV tapes or DVD-/RW discs onto DVD-R/RW discs. Use a DV cable (not supplied) to connect the DV IN/OUT socket on your camcorder/video deck to the DV IN socket on the front panel of this recorder.

Note: Only DV units can be connected to this socket (The source signal must be in the DV-25 format; see page 46 and 47). It is not compatible with digital satellite tuners or S-VHS video decks.

DV Digital Camcorder



Basic Settings



Set the rotating switch on the remote contol to DVD mode.



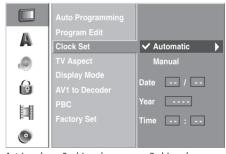
Push the On/Off button on the DVD recorder or ...



... the On/Off switch on the remote control.

The menu system offers several ways of changing settings. Most menus consist of three levels for setting up options. If you press well, only the first and second levels of the menu system are displayed on the screen. You can display the third level by pressing "▶". When navigating in the menus, "▶" on the right side of the menu tab shows you that the next level can be called up.

Main Menu:



1st Level 2nd Level 3rd Level

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Navigating in Menus

In this operating manual the RC3 remote control arrow keys are represented as follows:



The arrows correspond to
" ▲ ▼ ◀ ▶ " in the text.

The OK function is represented as
"OK" in the text.

- 1. Press MENU.
 The menu is displayed.
- 2. Select the desired option with \blacktriangle / \blacktriangledown .
- 3. The desired entry is selected. Press ▶ to call up the corresponding second level.
- 4. Select the second option with ▲ / ▼.
- 5. Press ▲ / ▼ to call up the corresponding third level
- 6. Use ▶ to select the desired settings and confirm your selection with **OK**. Some options required additional steps.
- 7. Press MENU to quit the menu.

Activating Digital Link

With Digital Link, Loewe TV sets pass on the remote control signals to Centros via the Euro-AV connection. Digital Link is useful if you want to install Centros in a concealed place, e.g. in a closed rack.

- Switching on Digital Link.
 Centros must be switched on. Press the key on Centros for > 3 secs. "LINK" appears briefly in the Centros display.
- Switching off Digital Link.
 Centros must be switched on. Press the key on Centros for > 3 secs. "FRONT" appears briefly in the Centros display.

The General Menu



Automatic Programming

This DVD recorder is fitted with a tuner capable of receiving up to 88 channels.

Note: The channel is set automatically when using Digital Link Plus.

Preparation:

Connect the DVD recorder to the aerial system. See "Connecting to the Aerial" on page 13.

- 1. Press MENU.
 The menu is displayed.
- 2. Select the "General" option with ▲ / ▼.
- 3. Press ▶ to call up the second level.
- 4. Select the "Auto Programming" option with ▲
- 5. Press ▶ to call up the third level. The country option is highlighted.
- Select a country with ▲ / ▼ and press ▶ .
 The "Start Search" symbol is highlighted.
- Press **OK** to start the program search.
 The tuner cycles automatically through all available channels and transfers all programs found to the tuner's memory.



Digital Link Plus

If you have connected the DVD recorder to a Loewe TV set with Digital Link Plus or a comparable system from another manufacturer (e.g. EasyLink, Mega Logic, Project 50), the program list will be transferred from the television set to the DVD recorder. This takes place when you register the DVD recorder with the TV set, or when you make any changes to the programs on the TV set (re-sorting, deleting, adding). After a change of this sort, the TV set will ask you to start transferring the changed program list.

The DVD recorder detects a connected TV set with Digital Link Plus or a similar system from another manufacturer and adjusts the DVD recorder accordingly. This means that you cannot search for, delete or sort TV programs on the DVD recorder. The menu items are grayed out; during the automatic search it is only possible to transfer the program information from the TV set.

Note that all programs that you receive via aerial or cable must be stored in program numbers 1 to 88 on the TV set.

If the TV set does not ask you to transfer the program information, then start the transfer on the DVD recorder.

If your TV set is equipped with Digital Link Plus or with a comparable system from another manufacturer, only carry out program changes on the TV set.

If the TV set that you have connected to the DVD recorder does not have Digital Link Plus or a comparable system, then you should harmonize the DVD recorder and TV set program lists. This will help you to find programs on the TV set and DVD recorder.

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Preparation

Connect the DVD recorder to the TV set with Digital Link Plus using a SCART connection. See "Connecting to the Television" on page 14.

Activate Digital Link on the DVD recorder as described on page 17.

Transfer program list

- 1. Press MENU.
 The menu is displayed.
- 2. Select the "General" option with ▲ / ▼.
- 3. Press ▶ to call up the second level.
- 4. Select the "Auto Programming" option with ▲ / ▼ .
- 5. Press ▶ to call up the third level. The country option is highlighted.
- 6. Select a country with ▲ / ▼ and press ▶ . The "Start DLP" symbol is highlighted.

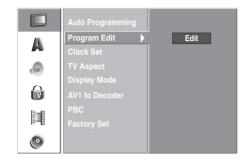


 Press **OK** to start transferring the program list stored in the TV to the DVD recorder.
 This may take a few seconds. During the transfer the DVD recorder display shows "DLP".

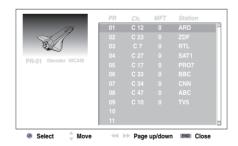
Note: (Centros 1172). With Digital Link Plus, French stations are only broadcast in the correct standard if you have previously selected "France" as the country (see Point 6 above).

Channel Setting

You can edit a channel manually (add, delete, rename, move etc.).



- 1. Press MENU. The menu is displayed.
- 2. Select the "General" option with ▲ / ▼.
- 3. The "GENERAL" entry is selected. Press ▶ to call up the second level.
- 4. Use ▲ / ▼ to select the "Channel Setting" option. Then press ▶ to move to the third level. The "Change" symbol is highlighted.
- 5. Press **OK**. The "Program List" menu is displayed...



6. Use ▲ / ▼ to select a PR number, and press OK. All available options that can be used on the highlighted program are shown in the bottom left field. Use ▲ / ▼ to select an option, and press OK to confirm.



Program edit: Search, channel entry, fine tuning.

Station Rename: Change name.

Move: Move a program in the progam list. **Delete**: Deleting programs from the program list

Decoder on/off: Divert program via decoder ("on").

NICAM auto/off: Switch off NICAM reception ("off")

8. Press END or MENU, to quit the "Program List" menu.

Edit program

Alongside automatic programming it is also possible to set and save programs manually.

- Use ▲ / ▼ to select a program in the "Program List" menu, and press OK. The options are displayed on the left side of the "Program List" menu.
- Use ▲ / ▼ to select the "Program Edit" option and press OK. The "Program Edit" menu is displayed.



- 3. ◀ / ▶ (left/right): Moves the cursor to the previous or next column.

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PR: Indicates the programm number (display only)

Seek: Automatically searches for station. Use ◀
/ ▶ to select the "Seek" option and then press
▲ / ▼ . Searching stops when the DVD recorder receives a station.

Channel: Changes the channel number. Use

✓ / ➤ to select the "Channel" option and then press

✓ / ▼ .

MFT: Changes the frequency to fine-tuning. Use

✓ / ► to select the "Fine" option and then press ► / ▼ .

PAL/SECAM (with Centros 1172): Changes the receiver standard. If there is interference with the image, use ◀ / ▶ to select the "PAL/SECAM" option and then use ▲ / ▼ to select "SECAM" for the SECAM-L standard.

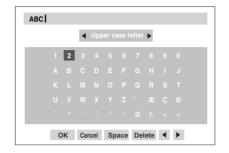
4. Then press **OK** to confirm the settings and return to the "Program list" menu.

Note: If the DVD recorder has got the station from a Loewe television via Digital Link Plus (DLP), the "Edit programme", "Move" and "Delete" functions are blocked and can only be used once more when the station is overwritten again by automatic programming.

Renaming stations

You can give whatever name you like to a station. Names should have a maximum of five characters.

- Use ▲ / ▼ to select a programme in the "Programme list" and press OK. The options are displayed on the left-hand side of the "Programme list" menu.
- Use ▲ / ▼ to select the "Rename station" option, and press OK. The "Keypad" menu is displayed.



- 3. Enter a name for the station. Use ▲ ▼ ◀ ▶ to select a character and press **OK**.
- Upper case letter: Switches the keypad so that only upper case is used.
 Lower case letter: Switches the keypad so

that only lower case is used.

- Symbols: Switches the keypad to symbol characters.
- ABC...123: Inserts the corresponding character at the cursor position.
- **OK**: Select this option to end and save.
- **Cancel**: Select this option to close the menu. Any changes made will be discarded.
- **Space**: Inserts a space at the cursor position.
- **Delete**: Deletes the character to the left of the cursor position.
- ◀ / ▶ : Moves the cursor to the left or right.

Note: Remote control buttons for keying in a name (all selections must be confirmed using the remote control's **OK** button).

: Inserts a space at the cursor position.
: Deletes the character to the right of the cursor position.

: Deletes the character to the left of the cursor position.

P+ / P-: Moves the cursor to the left or right. **TEXT, INFO**: Toggles the keypad between upper case, lower case and symbols.

4. Then press **OK** to confirm the settings and return to the "Program list" menu.

Moving programmes

You can sort the programme positions in the "Programme list" menu.

- Use ▲ / ▼ to select a programme in the "Programme list" and press OK. The options are displayed on the left-hand side of the "Programme list" menu.
- 2. Use ▲ / ▼ to select the "Move" option, and press **OK**.
- 3. Use ▲ / ▼ to select the position you require.

 Then press **OK** or END again in the programme list to change.

Deleting a programme

You can delete a programme from the "Programme list" menu.

- 1. Use ▲ / ▼ to select a programme in the "Programme list" and press **OK**.
- 2. Use ▲ / ▼ to select the "Delete" option, and press **OK**. The programme is deleted.

Decoder on/off

- Use ▲ / ▼ to select the programme that you wish to reroute via the decoder and press OK.
 The options are displayed on the left-hand side of the "Programme list" menu.
- Use ▲ / ▼ to select the "Decoder on/off" option, and press OK. When you select "on", "Decoder" appears under the program shown in the small picture.

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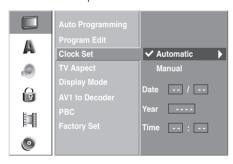
NICAM auto/off

This DVD recorder can receive Hi-Fi sound transmissions in NICAM Stereo. Bad reception can however cause distortion. You can switch the function off ("off").

- Use ▲ / ▼ to select a program in the "Program List" menu, and press OK. The options are displayed on the left side of the "Program List" menu.
- Use ▲ / ▼ to select the "NICAM auto/off" option from the program list and press OK. If you select "auto", "NICAM" appears under the program shown in the small picture.

Setting the Clock

If the automatic channel search is finished, the date and time will also be set automatically (depending on the broadcasting station), the same is true when the power supply returns after a power cut or after the mains cable has been unplugged. The "Automatic" option must be set to enable this.



- 1. Press MENU.
 The menu is displayed.
- 2. Select the "General" option with ▲ / ▼.
- 3. Press ▶ to call up the second level.
- 4. Select the "Clock" option with ▲ / ▼.
- 5. Press ▶ to call up the third level.

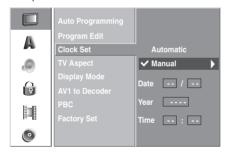
- 6. Press ▲ / ▼ to select the "Automatic" option and then press **OK**.
- 7. Press MENU, to quit the menu.

Note: Check whether the automatic year and date setting is correct. If necessary they must be set manually.

Manual Setting of the Date / Time

It is possible that the television station may broadcast incorrect date and / or time information or no information at all and that the DVD recorder sets the incorrect time. If this is the case we recommend that you set the clock manually.

- Follow steps 1 5 as described above (Automatic Clock Setting).
- 2. Use ▲ / ▼ to select the "Manual" option and then press **OK**.

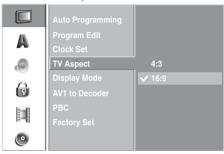


- 3. Then enter the necessary date and time information.
 - ◀ / ► (left/right): Moves the cursor to the previous or next column/line.
 - ▲ / ▼ (up/down): Changes the setting at the current cursor position.
- You can return to the 2nd level by pressing **OK** or you can close the menu with MENU.

TV Aspect

You can choose:

- 4:3: Select this setting if a television set with 4:3 picture format is connected.
- 16:9: Select this setting if a widescreen television set with 16:9 picture format is connected.



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Screen Mode

The screen mode setting is only available if the TV aspect of the television is set to 4:3. You can choose:

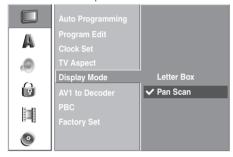
- Letter Box: Widescreen format recordings

appear with black borders at the top and bottom of the screen.

- Pan Scan: The picture fills the whole screen

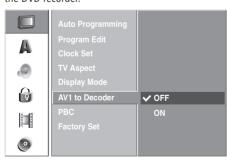
but cuts off areas at either side that do not fit on the screen if

required.



AV1 on Decoder

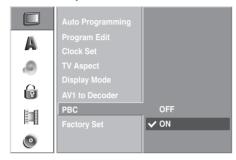
We have already described how to connect a decoder on page 15. If you also want to use an analog decoder for you TV set (programs to be decoded are sent via the DVD recorder to the decoder) you must set "AV1 on Decoder" to "On". If it is set to "Off" the decoder is only available to the DVD recorder.



Playback Control - PBC

VCD, SVCD

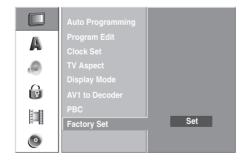
If a VCD (or SVCD) contains playback control (PBC) features and if "PBC" in the menu is set to "On", then the disc playback is controlled via the menu contained on the disc. Otherwise the VCD is played in the same way as an audio CD.



Factory Settings

If required you can restore all the factory settings on the recorder. Select the "Execute" symbol and press **OK**.

Note: Some options cannot be reset (security rating, password and country code, program list, timer list).

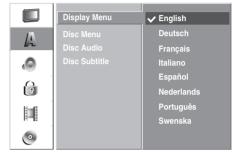


Language Menu



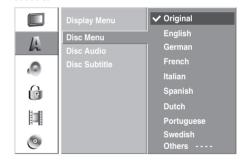
Menu Language

Select a language for the menus and dialogs displayed by the DVD recorder.



Disc Languages

Select a language for the disc's menu, audio and subtitles.



These are presettings and, if available, are set after inserting the disc. Otherwise the "Original" version of the disc is used.

- Original: The original language of the disc is selected.

- Others: To select another language, select

"Other" and press **OK**. Use the number keys and the **OK** button to enter the appropriate four-digit number in agreement with the language code on page 68. If you input the code incorrectly, press

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◀ repeatedly to delete the entry character by character and then correct it before you press **OK**.

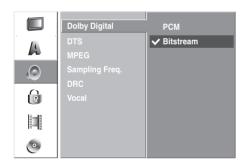
Audio Menu

Each DVD disc offers a variety of audio formats. Set the audio format for the recorder according to the type of audio system you are using.

Dolby Digital

PCM: Select this option if the unit is connected to a digital two channel stereo amplifier. The DVD recorder's digital audio outputs emit sound in PCM 2 channel format if you play a DVD-Video disc with Dolby Digital audio format.

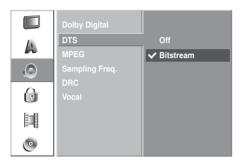
Bitstream: Select "Bitstream" if you have a Dolby Digital decoder (or amplifier, a Loewe TV with AC3 or DIS module or another unit with Dolby Digital decoder) connected to the DIGITAL OUT socket of the DVD recorder.



DTS

Off: If you select "Off" the DTS signal is not emitted from the DIGITAL OUT socket.

Bitstream: Select "Bitstream" if you have a Dolby Digital decoder (or amplifier, a Loewe TV with AC3 or DIS module or another unit with Dolby Digital decoder) connected to the DIGITAL OUT socket of the DVD recorder.



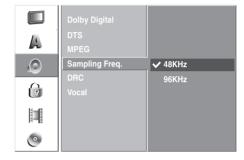
MPFG

PCM: Select this option if the unit is connected to a digital two channel stereo amplifier. The DVD recorder's digital audio outputs emit sound in PCM 2 channel format if you play a DVD-Video disc with Dolby Digital audio format.

Bitstream: Select "Bitstream" if you have a Dolby Digital decoder (or amplifier, a Loewe TV with AC3 or DIS module or another unit with Dolby Digital decoder) connected to the DIGITAL OUT socket of the DVD recorder.

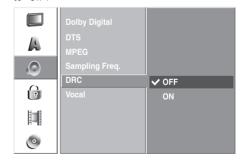
Sampling Frequency

If your receiver or amplifier is NOT designed for 96 kHz signals, select 48 kHz. If you have made this selection, the unit automatically converts the 96 kHz signals to 48 kHz signals that the system can decode. If your receiver or amplifier is designed for 96 kHz signals, select 96 kHz.



Night Mode

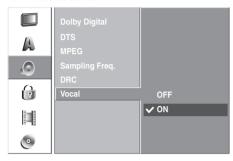
Thanks to digital audio technology the DVD format enables you to hear soundtracks in the most accurate and realistic way possible. However, you may wish to limit the dynamics (i.e. the difference between the loudest and the quietest sounds). In this way you can play a film with minimum volume differences. For this purpose switch "Night Mode" to "On".



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Karaoke Audio

Switch the singing option (karaoke audio) on, if you want to play a multi-channel karaoke DVD. The karaoke channels on the disc are mixed into normal stereo sound.

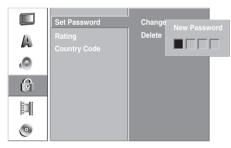


Lock Menu



Password

Changing the 4-digit code



- 1. Press MENU. The menu is displayed.
- 2. Select the lock option with ▲ / ▼.
- 3. The lock entry is selected. Press ▶ to call up the second level.
- 4. Select the "Password" option with ▲ / ▼.
- 5. Press ▶ to call up the third level.

6. **If you have not yet entered a password**: Enter a 4-digit code with the number keys to create a personal password and press **OK**. Enter

create a personal password and press **OK**. Enter the 4-digit password again for security and press **OK** to confirm.

If you have already entered a password: Enter the password and press **OK**.

Note: If you make a mistake, press ◀ repeatedly to delete or correct the password digits one after the other before pressing **OK**.

- 7. If the "Change" option is selected, press **OK**.
- 8. Enter a new 4-digit password using the number keys and press **OK**.
- 9. Then enter the password again for security and confirm by pressing **OK**.

Note: If you input the code incorrectly, press ◀ repeatedly to delete or correct the password digits one after the other before pressing **OK**.

Delete Password

If you want to switch the password protection off, proceed as follows.

- 1. Press MENU. The main menu is displayed.
- 2. Select the lock option with ▲ / ▼.
- 3. The lock entry is selected. Press ▶ to call up the second level.
- 4. Select the "Password" option with ▲ / ▼.
- 5. Press > to call up the third level.
- 6. Select the "Delete" option and press **OK**.
- 7. Enter the current 4-digit password using the number keys and press **OK**.

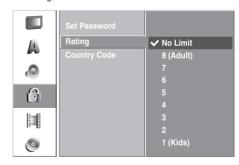
Have you Forgotten the Current Password?

If you have forgotten your password, proceed as you would to delete the current password.

- 1. Press MENU to display the menu.
- 2. Use the number keys to enter the 6-digit code "210449".
- 3. Select "Yes" and press **OK**. The 4-digit password is deleted. Enter a new code as shown left.

Rating

Films on DVD can contain scenes that are not suitable for children. For this reason discs can contain child protection information that applies to the whole disc or only to certain scenes on the disc. The ratings are country-dependent. The child lock function enables you to prevent your children watching certain discs or scenes.



- 1. Follow steps 1 3 as described in "Password".
- 2. Select the "Rating" option with ▲ / ▼.
- 3. Press ▶ to call up the third level.
- 4. Follow step 6 as described left (see "Password").
- Select a protection level between 1 and 8 using the ▲ / ▼ keys. 1 has the least playback limitations.
 8 has the most playback limitations.

No Limits: If you select "No Limits" the child

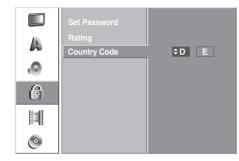
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lock is not active. The disc will play in full. **Steps 1 to 8**: Some discs contain scenes that are not suitable for children. If you assign a security rating to your DVD recorder it will only play the scenes on the inserted disc that correspond to or are below the assigned security rating. Scenes of a higher level on the DVD will only be played if appropriate replacement scenes are available on the disc. The alternative scenes must have the same or a lower security rating. If no suitable alternative is found, play is stopped. You must enter the 4-digit password or change the rating level to continue to play the disc.

6. Press **OK** to confirm the selected security rating. Press **MENU** to quit the menu.

Country Code (for Rating)

Enter the code for a country/region whose standards are to be used to rate the DVD-Video disc. (See "Country Code List" on page 69.)
For Great Britain select "G B".



- Press MENU.
 The MENU menu is displayed.
- 2. Select the "Lock" option with ▲ / ▼.
- 3. The "Lock" entry is selected. Press ▶ to call up the second level.
- 4. Select the "Country Code" option with ▲ / ▼.
- 5. Press ▶ to call up the third level.
- If you have not yet entered a password:
 Follow step 6 as described on page 23 under "Password".
- 7. Select the first character with the \blacktriangle / \blacktriangledown keys.
- 8. Move the cursor using the ▶ key and select the second character with the ▲ / ▼ keys.
- 9. Press **OK** to confirm the selected country code. Press **MENU** to quit the menu.

Recording Menu

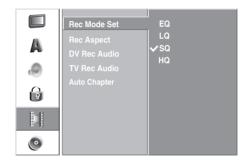


Recording Quality

You can set the picture quality for recording:

- EQ (Super Long Play),
- · LO (Long Play).
- SQ (Standard Quality),
- HQ (High Quality).

See also page 61 for further details.



- 1. Press MENU.
 The menu is displayed.
- 2. Select the "Recording" option with ▲ / ▼.
- 3. The "Recording" entry is selected. Press ▶ to call up the second level.
- 4. Select the "Rec Mode Set" option with ▲ / ▼.
- 5. Press > to move to the third level.
- 6. Use ▲ / ▼ to select the desired recording quality (HQ, SQ, LQ or EQ).
- 7. Press **OK** to confirm the selection and then MENU to guit the menu.

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Recording Format

When recording you can set the picture format (16:9 or 4:3) to suit the picture material you are recording.



DV Audio

You need to use this setting if your camcorder with 32 KHz / 12-bit is connected to the DV IN socket on the front panel.

Some digital camcorders have two stereo tracks for audio. One is used for recording, the other is used for post-editing.

On the Audio 1 setting the original sound is recorded.

On Audio 2 setting the edited sound is used.



TV Audio

When recording bilingual TV you can select the audio channel to be recorded.

Audio 1+2: both languages are recorded

Audio 1: language 1 only

Audio 2: language 2 only



Automatic Chapter

During recording chapter markers are placed at fixed intervals. You can select intervals of 5, 10 or 15 minutes. If you select "None" automatic chapter setting is switched off.



Disc Menu



Formatting

If you insert a completely empty disc it is automatically formatted by the recorder (see table on page 11).

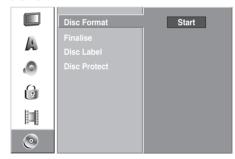
DVD-R: The recorder formats the disc in Video mode.

DVD-RW: The recorder formats the disc in VR mode.

DVD+R: The recorder formats the disc in Video mode.

DVD+RW: The recorder formats the disc in Video mode

A RW disc can also be formatted at a later date via the menu.

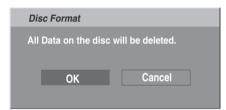


- 1. Press MENU.
 The menu is displayed.
- 2. Select the "Disc" option with ▲ / ▼.
- 3. The "Disc" entry is selected. Press ▶ to call up the second level.
- 4. Select the "Formatting" option with ▲ / ▼.
- 5. Press ▶ to call up the third level. The "Start" symbol is highlighted.
- 6. Press **OK**. The "Formatting" menu is displayed.
- 7. For DVD-RW select the desired type of formating (VR mode or Video mode) with ◀ / ▶ and then press **OK**.

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- 8. Use ◀ / ▶ to select "Ok", and press **OK**.
- 9. The following prompt appears:



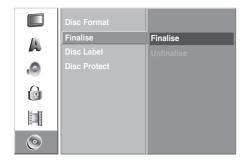
Caution: When you start formatting all recordings on the disc are deleted.

 After pressing **OK** disc formatting begins. It can take a few minutes.

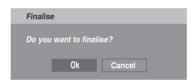
Finalization

Finalization fixes recordings so that the disc can be played on a regular DVD player or a computer with a suitable DVD-ROM drive. During finalization of a Video mode disc a menu is created for disc navigation. You can access the menu by pressing the button.

Caution: Following recording and finalization of DVD-R and DVD+R discs no other editing or recording can take place. This does not however apply for a DVD+RW and DVD-RW disc.



- 1. Follow steps 1 3 described on page 25 (Formatting).
- 2. Select the "Finalization" option with ▲ / ▼.
- 3. Press ▶ to call up the third level. "Finalization" is highlighted.
- 4. Press **OK**. The "Finalization" menu is displayed.



5. Press **OK**. The recorder starts finalization of the disc.

Note: The time needed for finalization depends on the type of disc, how much is recorded on the disc and the number of titles on the disc. Finalization of a prerecorded disc can take up to 8 minutes.

Tip: If you insert a finalized DVD-RW or DVD+RW disc, the finalization can be reversed by selecting "Unfinalize" in the "Finalization" menu. Then the disc can be edited and re-recorded.

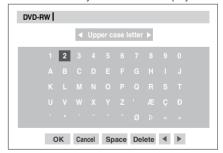
Disc Name

Use this option to enter a name for the disc. The name is displayed when the disc is loaded and when you display disc information on the screen.

- The disc name can be up to 32 characters long.
- For discs formatted on other DVD recorders you will only see a limited character set.



- 1. Follow steps 1 3 described on page 25 (Formatting).
- 2. Select the "Disc Name" option with ▲ / ▼.
- 3. Press ▶ to call up the third level. The "Edit" symbol is highlighted.
- 4. Press **OK**. The "Keyboard" menu is displayed.

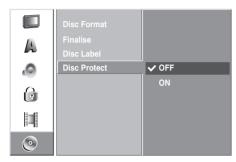


- Enter a name for the disc. Use ▲ ▼ ◆ ▶ to select a character. Then press **OK** to use the character in the name.
 See step 3 on page 19 (Renaming a Station).
- 6. Select OK and then press **OK** to save the name and to return to the "Disc" menu.
- 7. Press MENU to quit the menu.

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Disc Protection

When recording onto a DVD+RW/+R disc in DVD+RW disc mode protection should be switched to "On" to avoid inadvertant recording, changing or deleting of the disc. To release the disc again, select "Off".



Additional Screen Menus

This manual contains basic instructions for operating the DVD recorder. Some DVDs require specific handling or only permit limited operation during playback. If this is the case the Symbol appears on the screen. This indicates that certain operations are not permitted at certain points or that no menu is available on the disc

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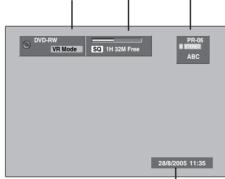
Displaying Information when the DVD Recorder is Supplying the TV Broadcast.

If you are watching a TV program that is being supplied by the integrated receiver in the DVD recorder (DVD recorder is in stop mode), then you can show (and hide) information about the TV program and the disc in the player by pressing **OK** or Example: A DVD-RW disc in VR mode is inserted and the program 06 called "ABC" is currently running:

Indicates the channel number, station name and the audio signal (NICAM, STEREO, MONO) for the current broadcast.

Indicates in a progress bar the ratio of used to free space on the inserted disc, the free space in minutes and the recording quality (for other discs see next page)

Indicates the name and format of the disc.



Indicates the current date and time.

Displaying Disc Information on the Screen during Disc Playback

You can display a variety of information about the inserted disc on the screen.

- 1. Press with twice to show disc information whose parameters can be changed.
- 2. To hide the screen display again, press or

A detailed explanation of how to play a disc can be found on the following pages.

Temporarily Visible Symbols

II =

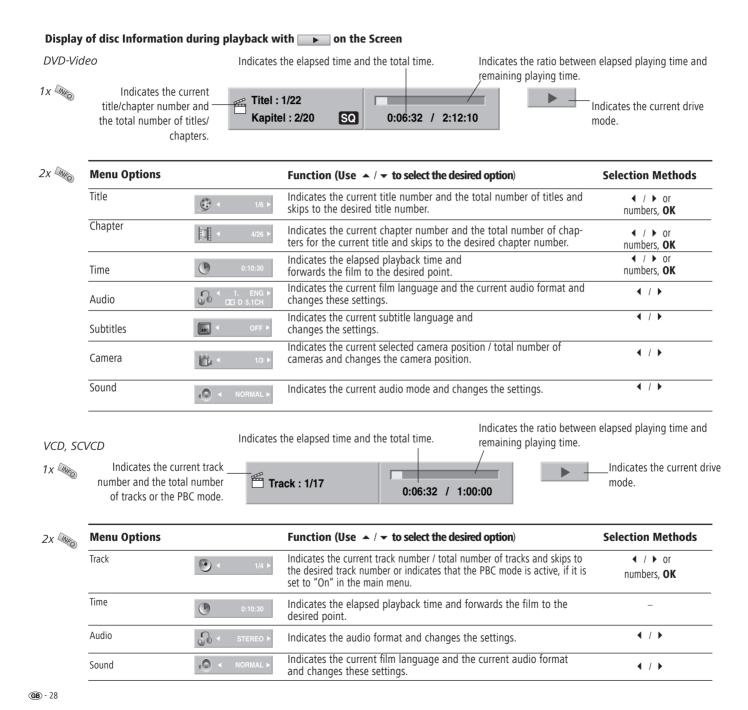
Resume play from this point

Notes:

Action prohibited or not available

- 1. Not all discs have all the functions described on the following pages.
- 2. If no button is pressed for ten seconds the screen menu disappears.

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Displayi of disc Information during playback with on the Screen (Continued) DVD-VR Indicates the elapsed time and the total time. Indicates the title name, recording date, recording quality etc. ORG: Original , PList: Playlist Titel: 1/22 Kapitel: 2/20 ORG SQ 0:06:32 / 2:12:10 Indicates the ratio between elapsed playing time and remaining playing time. Indicates the ratio between elapsed playing time and remaining playing time.



Menu Options		Function (Use ▲ / ▼ to select the desired option)	Selection Methods
Title	(1/6 ▶	Indicates the current title number and the total number of titles and skips to the desired title number.	√ / ▶ or numbers, OK
Chapter	4/26 ▶	Indicates the current chapter number and the total number of chapters for the current title and skips to the desired chapter number.	√ / ▶ or numbers, OK
Time	0:10:30	Indicates the elapsed playback time and forwards the film to the desired point.	√
Audio	1. STEREO DI D 2CH	Indicates the current film language and the current audio format and changes these settings.	4 / >
Subtitles	ABC ◀ OFF ▶	Indicates the current subtitle language and changes the settings.	∢ / >
Sound	♦ NORMAL ►	Indicates the current audio mode and changes the settings.	4 / >

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Playing back a DVD or video CD (VCD, SVCD)

Preparing for playback

Switch the television on and set the video source to be the input that the DVD recorder has been connected to or activate the "Control voltage" option for the television's AV input.

If you have connected the DVD recorder to an audio system, switch on the audio system and, as the source, set the input that the DVD recorder has been connected to.

- 1. Press \triangleq on the unit to open the disc drawer.
- Insert the disc that you have selected, with the side that is to be played back face-down, in the drawer.
- 3. Press \triangleq on the unit to close the disc drawer.
- READING shows on the display while disc recognition is in progress.

Play

When the disc has been recognised, playback begins automatically (if it does not, start it manually) and the menu on the disc will display (or the film will start immediately if there is no such menu). When the disc menu appears, proceed as follows:

DVD: Use the ◆ ▶ ▲ ▼ buttons to select the title or chapter that you wish to see. Then press **OK** to start playback.

VCD: Use the number buttons to select the track you want.

The disc's menu options and its precise mode of operation may differ from disc to disc. Follow the instructions on each menu page.

Further information can be found from page 21.

Notes:

- If the child lock is active and the DVD disc's security rating is higher than that of the child lock, the four-digit password will need to be entered (see "Ratings" on page 23).
- DVD's have a country code. The recorder will not play a disc that has a country code which differs from the country code stored in the unit. This player has country code 2.
- 3. You can also switch Play back control PBC (see page 21) off from the main menu (OFF).

General functions

Note: Unless otherwise indicated, the remote control is able to control the functions described. The DVD recorder's own controls can also be used to control certain functions.

Selecting a different TITLE



DVD Video VR

If there is more than one title on a disc, you can switch to a different title as follows:

Press twice and use ▲ / ▼ to select the title's symbol. Then press the appropriate number button (0-9) or ◀ / ▶ to select a title number. After pressing **OK**, the title will play.

Selecting a different CHAPTER or TRACK



DVD Video VR VCD

If a disc title has more than one chapter/track, you can select a different chapter or track as follows: During playback, press **P+** or **P-** to go to the next chapter or next track, or to go back to the start of the current chapter or track.

Press **P-** twice to go back to the previous chapter/track.

During playback, you can select a chapter or track directly by pressing twice. Then use ▲ / ▼ to select the chapter symbol (or the track symbol on a video CD). Then use the number buttons (0-9) to input the chapter/track number or use ◀ / ▶ to select it. When **OK** is pressed, the chapter will play.

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Searching

DVD Video VR VCD

- 1. Press or buring playback. The recorder now switches to Search mode.
- 2. Press or repeatedly to select the speed you want:
 - toggles between x2, x4, x8, x16, x100 (backwards) or
- with a video CD, the search speed changes as follows: x2, x4, x8.
- 3. You can leave Search mode by pressing

Freeze-frame and Picture For Picture playback

DVD Video VR VCD

During playback, press ———.
The recorder now switches to PAUSE mode.

- You can page backwards and forwards between images by pressing ◀ / ▶ repeatedly or page continuously by holding ◀ / ▶ down.
- 2. You can leave PAUSE mode by pressing

Notes: Paging back through images is not supported by video CDs. You can page forward through images by pressing on the remote control.

Slow motion

DVD Video VR VCD

- 1. During playback, press The recorder now switches to PAUSE mode.
- 2. In PAUSE mode, press or ... The DVD recorder switches to Slow Motion mode.
- 3. Use the or button to select the speed you require by repeatedly pressing:

 1/16, 1/8, 1/4, 1/2 (backwards) or

 1/16, 1/8, 1/4, 1/2 (forwards).

 With a video CD, the slow motion speed changes as follows:
- 4. You can leave Slow Motion mode by pressing

Note: Video CDs do not support slow motion backwards playback.

Repeating



DVD Video VR VCD

DVD discs - Repeating chapter/title/OFF Press to select the repeat mode that you want:

- Chapter: repeats the current chapter.
- · Title: repeats the current title.
- All: repeats all the titles on the disc. (VR mode - only DVD-RW discs)
- · OFF: no playback repeated.

Video CDs - repeat track/all/OFF

Press to select the repeat mode that you want.

- Track: repeats the current track.
- · All: repeats all the tracks on the disc.
- OFF: no playback repeated.

Note: On a video CD with PBC, you must set PBC to OFF in the "Disc" menu of the main menu in

order to use the Repeat function. Further information can be found from page 21.

Time (Play from ...)



DVD Video VR

The "Time" function enables you to select the time that the disc begins to play.

- During playback, press twice. The Info bar will appear on the television.
 The elapsed playing time of the current disc shows in the "Time" field.
- 2. Use ▲ / ▼ to select the "Time" symbol. "0:00:00" displays in the "Time" field.
- Use the number buttons to input the required start time within 20 seconds. From left to right, input the hour, the minutes and the seconds of the disc's start time.
 - You cannot input an invalid start time. If you have input incorrect figures, press ◀ / ▶ to move the cursor (_) to the incorrect figure. Input the correct numbers.
- Press **OK** within 20 seconds to confirm the start time. Playback will start at the time selected.

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700m

DVD Video VR VCD

You can use the Zoom function to expand the video image and navigate in the enlarged image.

- 1. <u>During playback</u> or freeze-frame playback, press RADIO to activate the Zoom function.

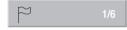
 Each time that you press the RADIO button, the screen will change as follows:

 Size x1, size x2, size x4, size x1 (normal size).
- 2. Use the ◀ ▶ ▲ ▼ buttons to move around within the zoomed image.
- 3. To continue with normal playback, press

 RADIO repeatedly until the image is back to
 the normal size.

Note: With some DVDs, the Zoom function may not work.

Markers



DVD Video VR VCD

How to set a marker

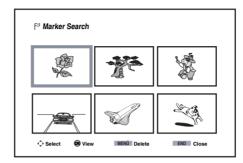
You can start playback from a marker that has been saved. Up to six markers can be saved. How to set a marker:

- During playback, press when you are at the point at which you want to save a marker. The marker symbol will appear on the screen for a short time.
- 2. Repeat step 1 to set up to six markers on a disc.

How to recall a scene that has been marked

- 1. Press during playback. The "Marker search" menu will appear on the screen.
- 2. Use the ◆ ▶ ▲ ▼ buttons to select a marked scene that you wish to recall.
- 3. Press **OK**.
 Playback will start from the marked scene.

4. Press END to turn off the "Marker search" menu.



How to delete a marker

1. Press during playback or while in Stop mode.

The "Marker search" menu will appear on the screen.

- 2. Use the ◆ ▶ ▲ ▼ to select the marker that you wish to delete.
- 3. Press MENU.

 The message "The selected marker has been deleted" will appear.
- Use ◀ / ▶ to select the "Yes" option, and press
 OK.
- 5. Repeat steps 2 -4 to delete other markers.
- 6. Press END to turn off the "Marker search" menu.

Disc menus

Most DVDs have their own menus. There is a difference between the disc menu and the so-called title menu.

Title menu

DVD

- Press TITLE III. If the current DVD has a title menu, it will appear on the screen. Otherwise the disc menu may be shown.
- The menu may cover camera angles, languages spoken, sub-title options and chapters for the title.

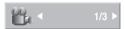
Disc menu

DVD

- 2. Make the settings you require by using ◆ ▶ ▲ and **OK**.
- 3. Press again to close the disc menu (or it may automatically close when **OK** is pressed).

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Camera positions



DVD

If the DVD contains scenes that have been captured using different camera positions, you can switch to a different camera position during playback.

Press ⊕ during playback and then press
 ✓ / ➤ repeatedly to select the camera angle you require.

The number of the current camera position is shown on the screen.

Note: A camera symbol will appear on the screen during scenes that were recorded using different camera positions.

Digital sound formats and film language



DVD

Here you can select the digital sound format in connection with the film language. To do this, press 2x during playback and use ▲ / ▼ to select the "Audio" menu item. Then press ◀ / ▶ to get a different film language or sound format.

Note: Some discs have got Dolby Digital and DTS sound tracks. If DTS is selected, there is no analogue audio output. To listen to the DTS sound track, connect the recorder via one of the digital outputs to a DTS amplifier (see page 15).

Changing the audio channel



VCD Video VR

If have inserted a video CD, press 2x during playback and use ▲ / ▼ to select the "Audio" menu item. Then press ◀ / ▶ to listen to a different audio channel (STEREO, LEFT or RIGHT).

3D surround sound

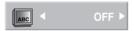


DVD Video VR VCD

This unit can produce a 3D surround sound effect that uses two ordinary stereo speakers to simulate multi-channel audio playback with the five speakers or more that are normally required for multi-channel audio in a home cinema system.

- 1. Press 2x and use ▲ / ▼ to select the "Sound" menu item. Then press ◀ / ▶ during playback to select "3D SUR".
- Select "NORMAL" to switch off the 3D surround sound effect.

Subtitles



DVD Video VR

During playback, press 2x and use ▲ / ▼ to select the "Subtitles" menu item. Then press ◀ / ▶ to select the subtitle language on the DVD.

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Storing the last disc settings

DVD Video VR

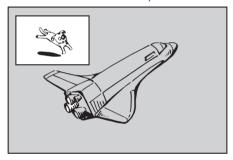
The recorder saves the user settings for the last disc that you have watched. The settings are saved until you remove the disc from the recorder or switch it off.

If you insert a disc that has already been played back, playback will continue from the last stopping point.

PIP (Picture In Picture)

DVD Video VR VCD

This function enables you, during playback, to watch television programmes or images from other connected AV sources in a small picture.



PIP on / off

Press # PIP to switch the small picture on. Press this button again to switch it back off.

Selecting the small picture

Press * EPG to select the signal source for the small picture. Each time that the button is pressed, the different signal sources for the small picture are displayed as below.

Tuner, AV1, AV2, AV3, AV4, Tuner

Selecting a TV programme for the small picture

Use ▲ / ▼ to change the programme when the small picture input is set to Tuner. The number of the programme selected appears on the screen. You can replace the large picture with the TV programme showing in the small picture by using to end the DVD playback (the small picture is then suppressed).

Changing the position of the small picture

Press ◀ / ▶ repeatedly until you reach the position you want. The small picture can be moved clockwise and counter-clockwise.

Zooming the small picture

Press RADIO repeatedly to increase the size of the small picture. 3 different sizes are available.

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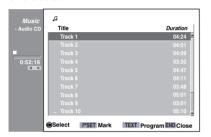
Operating the Audio CD and MP3

Playing audio CDs or MP3 discs

CD MP3

The DVD recorder can be used to play audio CDs. Recordings made in the MP3 format can also be played back on CD-ROM, CD-R or CD-RW discs (before playing MP3 recordings, read the advice on MP3 recordings on page 36).

 Insert the disc and close the drawer. The "Music - Audio CD" or "Music - MP3 CD" menu appears on the screen.



AUDIO CD Menu



MP3 CD Menu

Use ▲ / ▼ to select a track, and press
 It begins to play. During playback, the amount of time that has elapsed of the current track is displayed In the left-hand window. When the disc comes to an end, playback stops automatically.

Notes:

a.) To see the channel that the DVD recorder is delivering, or the images from the AV inputs, press DVD-AV/ * EPG.

Use the DISC-M/ button to return to the

b.) You can switch between the programme list and the original list by pressing (see page 37)

Press or to switch to the previous/next list page.

- c.) With mixed CDs (Audio tracks, MP3 and JPEG files) you can switch between the "Audio CD", "MP3 CD" and "Photo CD" menus by repeatedly pressing TITLE when in Stop mode.
- 3. To interrupt playback at any time, press . . .

Options in the Music menu

- 1. To display menu options, select a track (or folder) In the menu and press **OK**.
- 2. Use ▲ / ▼ to select an option and then always press **OK** to execute the function.

Options in the Music-Audio CD menu *CD*



- Play: Starts playing the selected track.
- Program add: Adds the selected track to the programme list. (Page 37)

Options in the Music-MP3 menu



When a track is selected:

- Play: Starts playing the selected track.
- Program add: Adds the selected track to the programme list. (Page 37)
- Folder: Displays the disc's folder list.
- Titles only: Displays all the MP3 files on the disc (no folders).

When a folder is selected:



- Open: Opens the folder and displays its contents
- Program add: Adds all the tracks in the selected folder to the programme list (see page 37).
- Folder: Displays the disc's folder list if "Title only" had previously been chosen to display only the tracks.
- Titles only: Displays all the MP3 files on the disc (no folders).

Pause

CD MP3

- 1. During playback, press . . .
- 2. To continue playback, press or to replay.

Playing a different TRACK

CD MP3

- During playback, press P- or P+ once to go to the next track or to go back to the start of the current track.
- Press **P-** twice to go back to the previous track.
- With an audio CD, if you wish to play a certain title you can also input the track number directly, by pressing the number buttons (0-9).

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Operating the Audio CD and MP3

Repeat

CD MP3

Press for the Repeat type that you want.

- TRACK: repeats the current track.
- ALL (CD): repeats all the tracks on the CD.
- FOLDER (MP3): repeats all the tracks in the current folder.
- · OFF: no repeat.

Search

CD

- Use the or buttons to select the Search direction and the Search speed that you want:

x2, x4, x8 (backwards) or x2, x4, x8 (forwards).

The Search speed and Search direction are displayed on the screen.

3. Use to come out of the Search mode.

Advice on MP3 recording

About MP3

- An MP3 file is made up of audio data that have been compressed using MPEG1 audio layer 3 file coding. Files with the ".mp3" extension are known as MP3 files.
- The recorder cannot read MP3 files that have an extension other than ".mp3".

The compatibility of MP3 discs and this recorder is subject to the following restrictions:

- The physical format of the CD-R should conform to ISO 9660 and JOLIET.
- If you record MP3 files with software such as "Direct CD", which cannot create a FILE SYSTEM, you cannot play back MP3 files.
- 3. The total number of files and folders on the disc should be no more than 999.

To achieve the best possible playback quality, the discs and recordings that are played on the DVD recorder should meet certain technical standards. DVDs that have already been played meet these standards. With writable disc formats, there are many different types (e.g. a CD-R with MP3 files) that have to meet certain conditions (see above) if compatibility is to be assured when playing.

It should also be noted that permission is required to download MP3 files and music from the Internet. Our company is not authorised to issue such permission. The permission required should always be sought from the copyright holder.

Copying files / folders from a CD to an audio/photo card

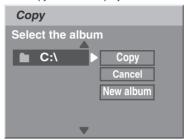
MP3 and photo files can be copied from a CD to a memory card in the audio/photo card reader This can be used, for example, to play files on portable playback devices (such as MP3 players).

Note: You should be sure to switch off any write protection on the memory card and check that there is sufficient storage space on the card.

Use ▲ / ▼ to select a file / a folder on the CD and then press OK. In the menu that appears, use ▲ / ▼ to select "Copy" and then press



2. The "Copy" menu is displayed.



- Use ▲ / ▼ to select the folder on the memory card that will receive the copy, and then press
 ▶ .
- Select "Copy" and press **OK**. The selected files / folders are copied to the selected folder on the memory card.

Use "Cancel" to return to the starting menu. "New folder" can be used to create a new folder on the memory card. You can then copy the selected files / folders to it.

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Programmed replay with audio CD and MP3

You can use the Program function to combine your favourite items from a disc or memory card in the order you want and thus create a personalised program. The memory will hold either 99 tracks (audio CD) or 256 tracks (MP3).

- Insert an audio CD or an MP3 disc or a memory card. The "Audio CD" or "MP3 CD" / "MP3 card" menu will display.
- 2. Use ▲ / ▼ to select a track (or folder).

 To select more than one track or folder at once:
 a.) Press ⑤.

The track/folder will be marked (✓). By pressing

□ again, you can delete the mark.
b.) Repeat step a) for other tracks (folders).

3. Press OK.

The options are displayed in the left half of the menu.

 Use ▲ / ▼ to select the "Program add" option and then press OK to transfer the selected items to the programme list.

Note: When a folder is added to the programme list, only the tracks in this folder will be copied - not those in any sub-folders.

- 5. To add more tracks to the programme list, repeat steps 2-4.
- 6. When you have finished creating the programme list, press to display this in the "Programme list" menu (the button switches between the programme list and the original list).



7. Use ▲ / ▼ to select the programme track that is to be the first one to be played.

Note: With programme lists of more than one page, you can use or to page backwards and forwards.

8. Press

The tracks are played back in the order that has been programmed. Playback stops after the last track in the programme has played.

Options in the Programme list menu *CD MP3*

- To display the menu options for any item in the programme list, select a track in the "Programme list" menu and press **OK**.
 - The options are displayed in the left half of the menu.
- Use ▲ / ▼ to select an option, and press OK to confirm.



- **Play**: Playback begins with the selected track in the programmed order.
- Move: Moves the selected track(s) and changes the order
- **Delete**: Deletes tracks from the programme list.
- **Delete all**: Deletes all the tracks from the programme list.
- Copy (only MP3 list): Copies the selected tracks/ folders to the memory card.

Repeat programmed tracks

During playback, press repeatedly to select a Repeat type.

- **TRACK**: repeats the current track.
- ALL (only CD): repeats all the programmed tracks on the CD.
- **FOLDER (only MP3)**: repeats all the tracks in the current folder.
- **OFF**: no repeat.

Deleting tracks from the programme list

1. Select the programme list track that is to be deleted.

Note: You can use the button to select more than one track.

2. Press OK.

The options are displayed in the left half of the menu.

Select "Delete" and press **OK**. The selected track is removed from the programme list.

Note: Select "Delete all" to remove all the tracks.

Changing the track order in the programme list

- Select the track that you wish to move.
 Note: You can use the button to select more than one track.
- 2. Press **OK**.

The options are displayed in the left half of the menu.

- Select "Move" and press OK.
 A blue deletion line appears in the programme list.
- Use ▲ / ▼ to move the blue deletion line to the appropriate place, and press OK.
 The selected track is moved.

Saving programme lists

MP3

This recorder automatically saves the programmed user list for the disc. The programme list remains in memory, even when the disc is taken out or the recorder is switched off..

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Using the photo disc

Playing a photo disc

IPFG

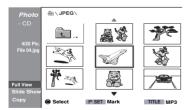
The recorder can be used to play discs with JPEG files. Before playback, read the "Notes on JPEG files" on the right.

 Insert the disc and close the drawer.
 The photo menu (overview) will appear on the screen.



Note: If the symbol appears in the photo menu, these JPEG files cannot be displayed.

- 3. Use ▲ ▼ ◆ ▶ to select the "Open" option, and press **OK**.
- 4. The contents of the selected folder are displayed.



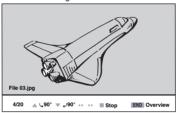
5. The options are displayed in the left half of the menu.

Notes:

a.) To go back from the file list to the folder above, press ▲ / ▼ on the remote control to mark the 🖮 .. symbol, and press **OK**.

- b.) To see the television programme that the DVD recorder is transmitting, or the images from the devices attached to the AV inputs, press * EPG

 . Use the button to go back to the menu.
 c.) Press in the photo menu to switch to the previous or next page.
 d.) With mixed CDs (audio tracks, MP3 and JPEG files), when you are in Stop mode you can switch between the AUDIO CD, MP3 CD and Photo CD menus by repeatedly pressing TITLE ...
- 6. Use ▲ / ▼ to select the "Full View" option, and press OK. Information and user guidance regarding the current image is displayed in the lower part of the screen. You can toggle this bar on and off using OK.



7. Return to the overview using

Accessing images one by one

In the full display, press \(\bigcup / \) once to display the next or previous file.

Rotating images

Press ▲ / ▼ to rotate an image that is being displayed 90° clockwise or anti-clockwise.

Slide show

1. Select "Slide show" in the photo menu.



- 2. Press **OK**. The "Slide show" menu is displayed.
- 3. Use ▲ ▼ ◆ ▶ to select the options.

 Item: display selected files or all files (see note

- below). Speed: To set the slide show speed (Slow, Normal or Fast).
- 4. Select "Start" and press **OK** to begin the slide show
- 5. Press to stop the slide show and go back to the photo menu.

Note: You can use the _____ button to select single files and make them into a slide show.

Notes about JPEG files

Depending on the size and number of JPEG files, it can take several minutes to read the disc. If nothing appears on the screen after a few minutes, some files are too large. Reduce the resolution of the JPEG files to less than 4 Megapixels and burn the disc again.

There is no limit on the total number of files and folders, but the total number of files in the folder has to be fewer than 999.

Due to different recording formats or the condition of the CD, some discs may be incompatible.

When using burning software to burn JPEG files onto a CD-R, all the selected files must have the ".jpg" or ".jpeg" extension before they will be burned onto the CD.

If the files have the ".jpe" extension, they must be renamed to ".jpg" or ".jpeg".

This recorder cannot read file names without the ".jpg" or ".jpeg" extension, even if the files appear as JPEG images in Windows Explorer.

Overview

About the system

You can use the digital audio/photo card reader built into the DVD recorder to display on the screen images from digital cameras with the most common memory cards.

MP3 audio files can also be played. You can create and play a programme list consisting of a selection of MP3 titles.

You use the Loewe DVD recorder's remote control to operate the audio/photo card reader.

When the memory card is inserted, you can use the **CARD** button to switch to using the audio/ photo card reader. An overview will appear of the images or MP3 files stored on the card - depending on the last method of use.

If there are over 9 images stored, you can use

to go to other pages of the overview

You can manually mark and view an image, and switch to the next or previous image.

You can rotate images that were taken in portrait mode, or that need to be turned upside-down.

The Slide show function can be used to automatically move on to the next image. You can use the menu to specify how quickly the images should be changed (see page 41).

MP3 or JPEG files can be copied from a data CD to a memory card with enough free storage space, so that they can be played on, e.g., portable playback devices (see page 37).

Data/memory card compatibility

The images stored on the card must be in the JPEG baseline DCF format. Other formats will not be displayed and are identified in the overview by a question mark. There is a maximum of 8 Megapixels. For further details about JPEG files, refer to page 38.

MP3 files are played at 32 - 320 kBps bit rates and at variable bit rates.

If the memory card is formatted on a PC or Mac, to then save a series of pictures on the card, it must be formatted in FAT 12, 16 or 32. Memory cards with other formats cannot be read.

Memory card capacity

Memory Stick (MS)	16MB 1 GB
MultiMediaCard (MMC)	32MB 256 MB
Secure Digital (SD)	32MB 256 MB

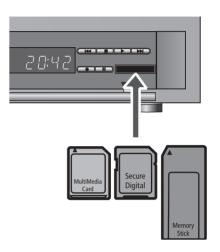
Tested memory cards *

MS cards Sony	Capacity 16MB - 1GB
SD cards	Capacity
Apacer	128 - 256MB
Panasonic	32MB
Lexar	128
Kingston	128MB
Toshiba	128 - 256MB
Transcend	32 - 64MB
MMC cards	Capacity
Pretec	64MB
Kodak	64 - 128MB
Apacer	32MB

* Playback cannot be guaranteed with memory cards that have not been tested.

Inserting/removing memory cards

It is recommended that memory cards are only inserted and removed when the unit is switched off.



Inserting a memory card: Push the card in until it snaps into place.

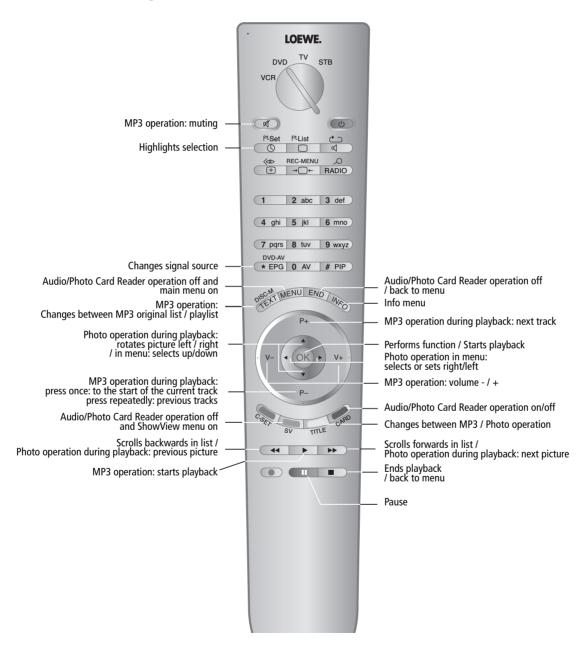
Removing a memory card: Press gently on the middle of the front of the card until it disengages, and then carefully withdraw the card.

Notes:

- When activating the audio/photo card reader, the DVD recorder should be idle, with no additional screen displays (no menu or Picture In Picture display).
- Take care with the card's polarity / tag (see diagram above).
- Keep memory cards out of reach of children. If swallowed, a doctor is required immediately.
- Cards should not be touched with electrical contacts, or the memory may be damaged.

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RC3 remote control audio/photo card reader functions

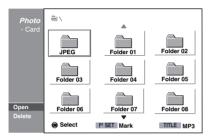


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Using photo

Displaying image files

1. Press the **CARD** button and the "Photo card" mode will display.
The photo menu appears on the screen.



Use ▲ ▼ ◀ ▶ to select a folder, and then press **OK**. The left half of the menu displays the options that you can use on the selected item.
 Select a JPEG file and press **OK**, then continue from Point 6.

Note: If the symbol appears in the photo menu, these JPEG files cannot be displayed.

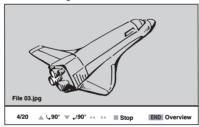
- 3. Use ▲ ▼ ◆ ▶ to select the "Open" option, and press **OK**.
- 4. The contents of the selected folder are displayed.



5. The options are displayed in the left half of the menu.

Notes:

- a.) To go back from the file list to the folder above, press ▲ / ▼ on the remote control to mark the ் ... symbol, and press **OK**.
- b.) To see the television programme that the DVD recorder is transmitting, or the images from the devices attached to the AV inputs, press DVD-AV/ * EPG. Use the DISC-M/ button to go back to the menu.
- c.) Press or in the photo menu to switch to the previous or next page.
- d.) With mixed CDs (audio tracks, MP3 and JPEG files), when you are in Stop mode you can switch between the "Music MP3 card" and "Photo card" menus by repeatedly pressing **TITLE**
- 6. Use ▲ / ▼ to select the "Full view" option, and press OK. Information and user guidance regarding the current image is displayed in the lower part of the screen. You can toggle this bar on and off using OK.



7. Return to the overview using

Note: To go to the folder above, use ▲ ▼ to mark 🖹 ..., and press **OK**.

Accessing images one by one

In the full display, press / once to display the next or previous file.

Rotating images

Press ▲ / ▼ to rotate an image that is being displayed 90° clockwise or anti-clockwise.

Slide show

1. Select "Slide show" in the photo menu.

2. Press OK.

The "Slide show" menu is displayed.



- Use ▲ ▼ ◀ ▶ to select the options.
 Item: display selected files or all files. Speed: To set the slide show speed (Slow, Normal or Fast).
- Select "Start" and press **OK** to begin the slide show.
- 5. Press to stop the slide show and go back to the photo menu.
- 6. Note: You can use the button to select single files and make them into a slide show.

Deleting images or folders

Use ▲ ▼ ◆ ▶ to select the folder or file that is to be deleted.

To delete more than one folder/file, first use the button to mark them.

2. Press **OK** and select "Delete" from the photo menu.

The "Delete" menu is displayed.



 Select "Yes" if you want to permanently delete the selected folders/files, and press OK. The delete procedure on the memory card cannot be reversed.

Note: You may need to ensure that, if the memory card is write-protected, this is removed in advance.

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Using MP3

Playing MP3 files

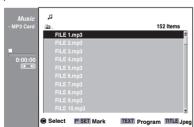
Before playing MP3 recordings, read the notes regarding MP3 recordings on page 36.

1. Insert the memory card. Press the **CARD** button. The "Music-MP3 card" or "Photo-card" modes appear. In the latter case, press the **TI-TLE** button so that the "Music-MP3 card" menu appears on the screen.



2. Use ▲ ▼ ◆ b to select a folder or file, and press **OK**.

The menu options are displayed on the left. If you have selected a folder and pressed **OK**, select the "Open" option from the menu and press **OK**.



3. Use ▲ / ▼ to select a file and press or press **OK**, then select "Play" from the menu options that appear, and press **OK** again. Playback begins. During playback, the amount of time that has elapsed of the current track is displayed in the menu. When the list comes to an end, playback will stop.

You can press DISC-M/ to toggle between the original list and the programme list.

Press or in the "Music-MP3 card" menu to switch to the previous/next page. When the memory card has mixed content (MP3 and JPEG files), you can press **TITLE** when in Stop mode to toggle between the "Music-MP3 card" and "Photo-card" menus.

4. To interrupt playback at any time, press . . .

Options in the Music menu

- 1. To display menu options, select a track (or folder) In the menu and press **OK**.
- Use ▲ / ▼ to select an option, and press OK to confirm.

Options in the Music MP3 card menu



When a track is selected:

- Play: Starts playing the selected track.
- Program add: Adds tracks to the programme list. (page 37)
- **Delete**: Deletes the selected track.

When a folder is selected:



- **Open**: Displays a subfolder and all MP3 files in this folder.
- Program add: Adds all the tracks in the folder to the list. (see page 37)
- **Delete**: Deletes the selected folder.

Note: Only empty folders can be deleted.

Pause

- 1. During playback, press
- 2. To continue playback, press or again

Playing a different TRACK

- During playback, press P- or P+ once to go to the next track or to go back to the start of the current track.
- Press **P** twice to go back to the previous track.

Repeating

Press for the Repeat type that you want.

- **TRACK**: repeats the current track.
- FOLDER: repeats all the tracks in the current folder.
- OFF: no repeat.

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Recording - first steps

Manual recording

Proceed as follows to record television programmes.

Recording will start immediately and will continue until the disc is full or you stop the recording.

- Switch the recorder on and insert a writable disc.
 Using the **DVD-AV** button, switch the recorder input to the signal source that you wish to record from. If you insert an empty disc, it is first initialised automatically by the recorder (see page 25).
- 2. Set the recording quality (see page 24).
- If you wish to record a TV programme, use the P+ / P- buttons to select a television programme or a signal source (e.g. AV1).
 The programme number, name and the current sound status are displayed on the screen.
- For dual-language TV recordings, select the sound channel in the "Record → TV rec audio" submenu in the main menu (see page 25).
- This recorder can also record NICAM audio. If the NICAM setting (see page 20) is set to Auto, audio will be automatically changed to NICAM whenever a NICAM programme is broadcast. If poor reception distorts the NICAM sound, you can switch off the programme's NICAM setting.
- Press once.
 Recording will begin. (The red REC display comes on in the DVD recorder's display window.)
- Recording will go on until you press until the disc is full.
 You can find out about specifying the length of the recording under "Immediate Timer Recording".

Stopping the recording

- 1. Press to stop the disc during a recording.
- 2. If you wish to continue the recording, press

Immediate Timer Recording

The "Immediate Timer Recording" enables you to make a recording with a specified length without using the programme timer.

- 1. Follow steps 1-4 (see "Manual recording").
- 2. Press several times to set the duration of the recording.

Recording will begin after the first press of the button. Each additional press of the button extends the length of the recording by 10 minutes. When the set time elapses, the DVD recorder will stop recording. It then automatically switches off.



"Immediate Timer Recording" menu

Checking the recording time

Press once to check the recording time. The length of recording time that remains will display. When the button is pressed again, while the display is still visible, "Continue" will display instead of the length of recording time that remains.

Extending the recording time

You can extend the recording time whenever you wish by pressing while "Continue" is displayed.

Each time that is pressed, the recording will extend by 10 minutes, and the new recording time will be displayed instead of "Continue".

Caution: If the recorder is cut off from the power supply while it is recording (or if there is a power cut), the recording will be lost.

43 -**GB**

Timer recording

This DVD recorder can be programmed so that it can make up to seven recordings in a month. For recording with nobody in attendance, the timer has to know which signal sources (TV stations or from AV devices) should be recorded, and it needs the start time and the inputs which define the recording length.

1. Insert a writable disc and press ———. The "Timer Recording" menu is displayed.



- PR Select a stored programme number or one of the external inputs for the recording.
- Date Select a date that lies, at most, one month from the current date.
- Start Time Sets the recording's start time (see Notes).
- Length Sets the duration of the recording.
- Mode Select a recording quality (HQ, SQ, LQ, EQ, or AT).
 - The AT (Auto) mode establishes how much disc time is available and, if necessary, switches to the recording quality to stop recording the programme (see page 24 for the other modes).
- Repeat Select the repeat type that you require (once, daily (Monday - Friday) or weekly).
- VPS/PDC The VPS/PDC system automatically alters the recording time so that you do not miss the programme if the programme schedule has been changed. For VPS/PDC to work properly, you need to key in the VPS time (which may differ from the actual time of day see the Notes below) and the date of the programme that you wish to record.

Notes:

- You should be aware that not all stations work with VPS.
- Stations that use VPS/PDC usually have VPS/PDC information on their teletext pages.
 Look for information on those pages when you are going to make a timer recording.
- It takes around 30 seconds for the recorder to tune in and for recording to begin. If you are using VPS/PDC, the first few seconds of the programme may not be recorded.
- The actual time of day and the actual date will have to be keyed into the DVD recorder (see page 20).
- Input the information needed for your timer recording(s).
 - ◀ / ▶ (left/right) select the input fields
 - ▲ / ▼ (up/down) changes the setting in the active input field.

The other options in this menu are:

- OK saves your inputs in the timer (see point 3).
- END closes the menu and discards the inputs.
- —— opens the timer recording list.
- When you press **OK** the DVD recorder saves the programmed recording and displays the timer recording list.

Check in the "Status" column that the timer recording has been programmed correctly and a playable disc has been inserted.

- 4. Press **END** to close the timer recording list.
- 5. Press to switch the unit to standby.

Notes:

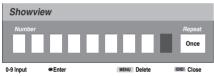
- The timer's LED lights up in the unit's display window when the recorder is in standby mode and at least one timer recording has been programmed.
- For dual-language TV recordings, select the sound channel in the "Record → TV rec audio" submenu in the main menu (see page 25).
- To stop a timer recording that is underway, press the button.
- The recording's start time must be at least 3 minutes into the future!

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Timer recordings with the ShowView ® system

Programming timer recordings with this system is child's play. Most television schedule publications include the SHOWVIEW code numbers along with the information about the programmes. So when you want to make a timer recording of a programme, you only need to key in the appropriate SHOWVIEW code number. The date, start time, end time and station are set automatically. You only need to set the recording quality and specify whether it is to be a one-off or repeated recording. You can save up to seven timer programmes on the recorder.

1. Press the green key **SV**/ The "Showview" menu is displayed.



To close the menu, press **SV** again Input fields

- Number key in the SHOWVIEW code number.
- Repeat select the repeat type that you require (once, daily or weekly).
- 2. Use the number buttons to input the SHOWVIEW code number.

 - If you make a wrong input, press repeatedly person of to delete the numbers one by one and then correct the password. You can also use ◀ / ▶ to go straight to the input field that you wish to correct and then overwrite the numbers that are there by using 0-9.
- Use ◀ / ➤ to place the cursor in the "Repeat" column. Use ▲ / ▼ to select the "Repeat" option (once, daily [Monday Friday] or weekly).
- 4. When you have input all the programme's details, press **OK**.
 - The "Timer recording" menu will appear. The settings can be altered from here.
- 5. Carry out steps 3-5 on the previous page (Timer recording).

Checking/changing the timer recording details

You can check the programming when the DVD recorder is switched on. Press \(\sigma\) twice. The "Timer recording list" menu is displayed.



Edit a timer program

- Use ▲ / ▼ to select a timer recording that you wish to check.
- Press **OK** to go to the selected program.
- Press to open the "Timer recording" menu, where you can make the change.

Deleting a timer program

You can deleted a timer program at any time before recording starts.

Use ▲ / ▼ to select the entry in the timer recording list that you want to delete. If you wish to delete the recording, press well.

Cancelling a timer recording

After a timer recording has begun, you can cancel it at any time by pressing .

Conditions that will prevent recording

When the timer has been programmed, the recorder will not record under the following circumstances:

- · No disc has been inserted.
- · A non-writable disc has been inserted.
- "Disc protection" is switched on in the main menu (see page 27).

- · There is no electric current.
- 99 titles have already been recorded on the disc.
- The recording start time is less than 3 minutes from the time it was programmed.

You cannot program the timer under the following circumstances:

- · A recording is already in progress.
- The start time required is in the past.
- Seven timer recordings have already been programmed.

Multiple overlapping timer programs:

- The earlier recording takes priority.
- When the earlier recording ends, the later one will start.
- When two recordings begin at the same time, the first to be input takes priority.

If the disc is damaged, it is possible that the recording will not be done properly. Even if the "Recording OK" message appears in the "Status" field, this is not necessarily true in this case.

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Recording from external sources

Recording from external components

You can record from an external source, e.g. a camcorder or video recorder connected to one of the recorder's external inputs.

- The component that you wish to record from must be properly connected to the DVD recorder. Further information can be found on Page 16.
- Press DVD-AV/ * EPG several times to select the external input which is to be used to make the recording.
 - Tuner: integrated tuner
 - AV1: EURO AV1 AUDIO VIDEO to the rear of the housing
 - AV2: EURO AV2 DECODER to the rear of the housing
 - AV3: AUDIO AV IN 3 / VIDEO IN 3 to the rear of the housing
 - AV4: AUDIO IN 4 / VIDEO IN 4 / S-Video IN to the front of the housing
 - DV: DV IN to the front of the housing.
- 3. Insert a writable disc. If you insert an empty disc, it is first initialised automatically by the recorder (see page 24).
- 4. Set the recording quality (see page 24).
- 5. Press once.

 Recording begins (the red REC comes on in the unit's display window).

 Recording will go on until you press or until the disc is full.

 You can find out about specifying the length of the recording under "Immediate Timer Recording" on page 43.
- 6. To stop the recording press .

Note: If your source is copy-protected by Copy-Guard, you cannot use this recorder to record from it. Read the copyright notes on page 12.

General "DV" information

With DV (Digital Video, also known as i.LINK), you can use a DV cable as the audio, video, data and control signals input / output to connect a camcorder that has DV to this recorder. The i.LINK interface complies with the IEEE 1394-1995 standard.

"i.LINK" and the "i.LINK" logo are trademarks.

- This recorder is only compatible with DV-format (DV-25) camcorders. Digital satellite tuners and digital VHS video recorders are not compatible.
- You cannot connect more than one DV camcorder at a time to this recorder.
- You cannot control this recorder with external devices that are connected via the DV IN socket (incl. two DVD recorders).
- The camcorder connected via the DV IN socket cannot necessarily, in every case, be controlled.
- Digital camcorders can usually record audio as 16 bit/48 kHz stereo or twin stereo tracks with 12 bit/32 kHz. This recorder can only record one stereo audio track. Set "Record → DV sound" as required or Audio 1 or Audio 2 (see page 25).
- The sampling rate of the digital sound input to the DV IN socket must be either 32 or 48 kHz (not 44.1 kHz).
- Recording may suffer from interference if the camcorder stops playing back, if a part of the tape that has not been recorded on is played back, if the electricity supply to the camcorder is cut off, or if the DV cable comes out.
- When "Record DV sound" is set to "Audio 2" and there is no Audio 2 signal, "Record → DV sound" will automatically be set to "Audio 1".

DV messages

When you are using the DV IN socket, the following messages may appear on the screen.

Not connected to camcorder

The camcorder is not properly connected, or the camcorder is switched off.

Too many devices connected

This recorder's DV socket only supports the connection of one camcorder.

Check tape

There is no tape in the device that is connected.

Incompatible device

The recorder is unable to control the camcorder.

Information is being reloaded

The camcorder is updating data for DV.

Camera mode

The camcorder is set to camera mode.

Troubleshooting

If you are not receiving images and/or sound via the DV IN socket, check the following: The DV cable must be properly connected. Switch off the camcorder that is connected, and switch it back on. Tune the audio input in to the DVD recorder.

Note: This DVD recorder cannot necessarily control every camcorder that is connected to it.

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Recording from external sources

Recording from a digital camcorder

You can record from a camcorder that is connected to the DV IN socket in the recorder's front panel. You can use the recorder's remote to control a camcorder and the recorder. Before recording, make sure that the audio input has been set up for the DV IN socket (see page 25).

Notes:

- The source signal must be in the DV-25 format.
- The DVD recorder cannot control all camcorders.
- If you use a DV cable to connect a second DVD recorder, you cannot use the first device to control the second DVD recorder.
- You cannot use a device that is connected to the DV IN socket to control the DVD recorder remotely.
- You cannot record the date and time information from a DV cassette.
- The digital camcorder must be connected to the DV IN socket at the front of the housing. Further information can be found on Page 16.
- Check that the DV audio input fulfils the necessary conditions.
 - You can choose from between Audio 1 (original audio) and Audio 2 (overdubbed audio). The DV input is set using the "Record → DV sound" submenu of the main menu (see page 25).
- 3. Press DVD-AV/ * EPG repeatedly to select the DV input.
 - "DV" appears in the DVD recorder's display window and on the screen.
- 4. Look for the point on the camcorder tape that you wish to record from.
 - For the best results, you should stop the playback at the point that you wish to record from. Depending on the camcorder, you can use the Stop, PLAY and PAUSE functions on the DVD recorder.
- 5. Press once to start the recording.
 - The recording is automatically stopped if the

DVD recorder fails to recognise a signal.

- In Video mode, the last frame of the recording is shown on the screen for a short time after recording has ended.
- For timer recordings to work properly on this recorder, the digital camcorder should be switched on and operational.

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Title List and Chapter List (VR)

The "Title List-Original" Menu VR

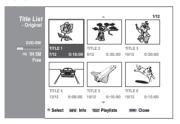
The playlist (see page 49) is created and edited in the "Title List-Original" menu, titles can be deleted and other changes can be made to the original content of the disc. Different playlists (dependent on the program with an audio CD) can be created and edited.

The individual titles can be played directly from the menu. The unit must be in stop mode in order to edit a title in this menu.

1. Press DISC-M/ to call up the "Title List-Original" menu.

With more than 6 titles use ▲ / ▼ to display the previous/next page.

Press **END** to quit the "Title List-Original" menu.



2. To display the Title List-Original options, select the desired title and press **OK**.

The options are displayed on the left side of the menu.

Use ▲ / ▼ to select an option, and press **OK** to confirm

• Play: Starts playing the selected title.



- **Chapter List**: Changes to the "Chapter List-Original List" for the selected title.
- **Delete**: Deletes the selected title (see page 50).

- Protect: Prevents inadvertent changing or deleting of a title (see page 57).
- Edit: Contains the following editing options:
 - * Rename: Edits the title name.
 - * **Delete part**: Deletes a part of the title.
 - * **Undo**: Undoes the last deletion (see page 55).
 - * **Redo**: Redoes the undo action (see page 55).
- Playlists: Adds the selected title to the end of a playlist of your choice.
- 3. Press END repeatedly to quit the "Title List-Original" menu.

Note: Press to display more detailed information about the selected title.

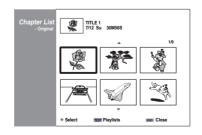
The "Chapter List-Original" Menu VR

- 1. Press DISC-M/ to call up the "Title List-Original" menu.
- Use ▲ ▼ ◀ ▶ to select the title for which you want to display the corresponding chapter list and press **OK**.

The options are displayed on the left side of the menu.

3. Use ▲ / ▼ to select the "Chapter List" option, and press **OK**.

The "Chapter List-Original" menu is displayed on the screen.



- To display the "Chapter List-Original" menu options, select the desired chapter and press OK.
 The options are displayed on the left side of the menu.
- Use ▲ / ▼ to select an option, and press OK to confirm.



- Play: Starts playing the selected chapter.
- **Title list**: Changes to the "Title List-Original" menu (see left side of this page).
- **Delete**: Deletes the selected chapter (see page 54).
- Combine: Combines two chapters into one (see page 56).
- Playlists: Adds the selected chapter to the end of a playlist of your choice (see page 53).
- 6. Press FND repeatedly to quit the "Chapter List-Original" menu.

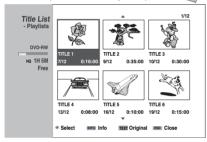
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Title List and Chapter List (VR)

The "Title List-Playlists" Menu VR

A playlist is list of any titles and chapters.

- 1. Press DISC-M/ twice to call up the "Title List-Playlists" menu.
 - With more than 6 titles use ▲ / ▼ to display the previous/next page.
 - To quit Title List-Playlists, press END).



2. To display the options, select the desired title and press **OK**.

The options are displayed on the left side of the menu.

Use ▲ / ▼ to select an option, and press OK to confirm.



- Play: Starts playing the selected playlist.
- **Chapter list**: Changes to the "Chapter List-Playlists" for the selected title.
- **Delete**: Deletes the selected playlist (see page 54).
- Rename: Enables renaming of the selected playlist (see page 56).
- **Delete part**: Deletes a part of the selected playlist (see page 55).

Press FND repeatedly to quit the "Title List-Playlists" menu..

Note:

Press to display more detailed information about the selected playlist.

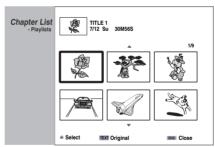
The "Chapter List-Playlists" Menu VR

- 1. Press DISC-M/ twice to call up the "Title List-Playlists" menu.
- Use ▲ ▼ ◆ ► to select the title (playlist) for which you want to display the corresponding chapter playlist and press OK.

The options are displayed on the left side of the menu.

3. Use ▲ / ▼ to select the "Chapter List" option, and press **OK**.

The "Chapter List-Playlists" menu is displayed on the screen.



4. To display the options, select the desired chapter and press **OK**.

The options are displayed on the left side of the menu.

- Use ▲ / ▼ to select an option, and press OK to confirm.
 - **Play**: Starts playing the selected chapter.
 - **Title list**: Changes to the "Title List-Playlists" menu.
 - **Delete**: Deletes the selected chapter from the playlist (see page 54).

- Combine: Combines two chapters into one (see page 56).
- Move: Moves the selected chapter to another desired position in the playlist (see page 56).



6. Press END repeatedly to quit the "Chapter List-Playlists" menu.

49 -**GB**

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Title List and Chapter List (Video)

The "Title List" Menu

Video

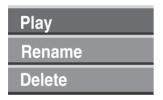
All recorded titles are listed in the "Title List" menu. Titles can also be played, renamed and deleted here.

Once a disc has been finalized in Video mode the functionality is limited and you can only play titles.

1. Press DISC-M/ to display the Title List.



- Use ▲ / ▼ to select a title, and press OK.
 The options are displayed on the left side of the menu.
- 3. Use ▲ / ▼ to select an option, and press **OK** to confirm.



- Play: Starts playing the selected title.
- **Rename**: Edits the title name. (page 56)
- **Delete**: Deletes the selected title from the title list.
- 4. Press **END** repeatedly to quit the "Title List" menu.

Note: Press to display more detailed information about the selected title.

Deleting a Title

Before finalizing a disc you can delete titles recorded on the disc

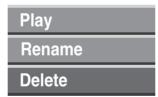
Caution:

- If you delete a title from a DVD-R disc, the title is hidden from the Title List but the available recording time does not increase.
- If you delete a title from a DVD-RW disc, the remaining recording time will only increase if the title is the last one on the disc. In this case it is actually deleted, in other cases it is simply hidden.
- 1. Press DISC-M/ to display the title list.
- Use ▲ ▼ ◆ ▶ to select the title you want to delete and press **OK**.

The options are displayed on the left side of the menu.

3. Use ▲ / ▼ to select "Delete", and press **OK** to confirm

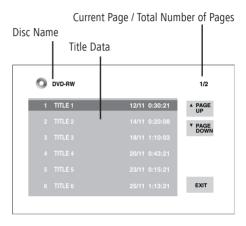
After pressing **OK** a new, updated title list is displayed.



- 4. Repeat steps 2 3 to delete other titles from the title list.
- 5. Press END repeatedly to hide the title list.

After Finalization of the Disc

Following insertion of a finalized disc, the disc menu (previously "Title List") appears automatically as shown below:



With "**PAGE UP**" or "**PAGE DOWN**" you can scroll to other pages as required.

You can guit this menu using **EXIT**.

Press **OK** or to play the selected title. Using ▲ / ▼ and **OK** you can scroll up and down the list as required or you can use "Exit" to quit the menu.

GB - 50

Title List and Chapter List

The "Title List" Menu

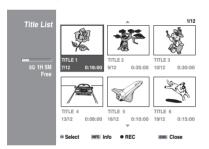
Video +RW

All recorded titles are displayed in the title list, titles can be deleted and other changes can be made to the original content of the disc. Titles can be played directly from the "Title List" menu. The DVD recorder must not be in play mode when editing using the "Title List" menu.

1. Press DISC-M/ to open the "Title List" menu.

With more than 6 titles use ▲ / ▼ to display the previous/next page.

Press END to quit the "Title List" menu.



- To display the title list options, select the desired title and press **OK**.
 The options are displayed on the left side of the
- 3. Use ▲ / ▼ to select an option, and press **OK** to confirm.



menu.



- **Play**: Starts playing the selected title without hidden chapters.
- **Play all**: Starts playing the selected title including the hidden chapters.
- Chapter list: Changes to the "Chapter List" menu for the selected title.
- **Delete**: Deletes the selected title (see page 54).
- Protect: Prevents inadvertent overwriting, changing or deleting of a title (see page 57).
- Edit: Contains the following editing options:
 - * **Rename**: Edits the title name (see page 56).
 - * **Divide**: Divides a title in two parts (see page 57).
 - * **Hide**: Hides/Shows all chapters within the title (see page 57).
- 4. Press END repeatedly to quit the "Title List" menu.

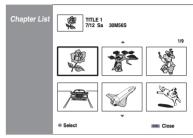
Note: Press to display more detailed information about the selected title.

Caution: If you press in the "Title List" menu, the selected title will be deleted and recording begins (see page 54 for further information).

Using the "Chapter List" Menu

- 1. Press DISC-M/ for the "Title List" menu.
- Use ▲ ▼ ◆ ► to select the desired title and press **OK**. The options are displayed on the left side of the menu.
- 3. Use ▲ / ▼ to select the "Chapter List" option and press **OK**.

The "Chapter List" menu is displayed.



- To display the chapter list options, select the desired chapter and press OK.
 The options are displayed on the left side of the menu.
- Use ▲ / ▼ to select an option, and press OK to confirm.



- Play: Starts playing the selected chapter.
- **Title list**: Changes to the chapter "Title List" menu (see left side of this page).
- **Combine**: Combines two chapters into one (see page 56).
- Hide: If you play a higher-level title, the selected chapter will not be played (if you select the function again, the selected chapter is played (see page 57)).
- 6. Press END repeatedly to quit the "Chapter List" menu.

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Title List and Chapter List

The "Title List" Menu

Video +R

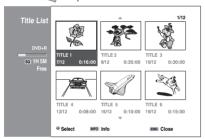
All recorded titles are displayed in the title list, titles can be deleted and other changes can be made to the original content of the disc.

Titles can be played directly from the "Title List" menu. The DVD recorder must not be in play mode when editing using the "Title List" men

1. Press DISC-M/ to open the "Title List" menu.

With more than 6 titles use ▲ / ▼ to display the previous/next page.

Press **END** to quit the "Title List" menu.



2. To display the title list options, select the desired title and press **OK**.

The options are displayed on the left side of the menu.

3. Use ▲ / ▼ to select an option, and press **OK** to confirm.





- Play: Starts playing the selected title without hidden chapters.
- Play all: Starts playing the selected title

including the hidden chapters.

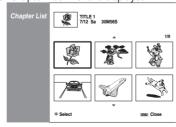
- Chapter list: Changes to the "Chapter List" menu for the selected title.
- **Delete**: Deletes the selected title (see page 54).
- Protect: Prevents inadvertent overwriting, changing or deleting of a title (see page 57).
- Edit: Contains the following editing options:
- * **Rename**: Edits the title name (see page 56).
- * **Divide**: Divides a title in two parts (see page 57).
- * **Hide**: Hides/Shows all chapters within the title (see page 57).
- 4. Press END repeatedly to quit the "Title List" menu.

Note: Press to display more detailed information about the selected title.

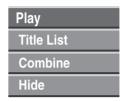
Using the "Chapter List" Menu

- 1. Press DISC-M/ for the "Title List" menu.
- Use ▲ ▼ ◆ to select the desired title and press OK. The options are displayed on the left side of the menu.
- 3. Use ▲ / ▼ to select the "Chapter List" option and press **OK**.

The "Chapter List" menu is displayed.



 To display the chapter list options, select the desired chapter and press OK.
 The options are displayed on the left side of the menu. 5. Use ▲ / ▼ to select an option, and press **OK** to confirm



- Play: Starts playing the selected chapter.
- **Title list**: Changes to the chapter "Title List" menu (see left side of this page).
- **Combine**: Combines two chapters into one (see page 56).
- Hide: If you play a higher-level title, the selected chapter will not be played (if you select the function again, the selected chapter is played (see page 57)).
- 6. Press END repeatedly to quit the "Chapter List" menu.

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Original Lists and Playlists

VR

If you edit the original lists (for titles and chapters) you change the content of the disc. If, for example, you delete a title or a chapter, the title or chapter is deleted from the disc.

However, if you edit a playlist you do not change the content of the disc. Example: If you delete a title from the playlist, you are simply telling the DVD recorder not to play the title. However, it is not deleted from the disc.

Titles, Chapters and Parts

VR

Titles in the disc's original content contain one or more chapters. If you insert a title into a playlist, all the chapters within that title are also transferred. The chapters in a playlist behave in exactly the same way as those on a DVD-Video disc.

Parts are sections of original or playlist titles. You can add parts to a playlist via the "Title List-Original" and "Chapter List-Original" menus. You can also delete parts from a playlist.

Notes:

- If you add, delete or move parts, the start and end images may be slightly different.
- During playback of a playlist there may be short pauses between the individual items. This is not a malfuntion.

Adding Chapter Markers

VR



You can insert a chapter marker anywhere in a playlist or an original title during recording or playback.

Once the chapters have been marked, the chapter search can be used and chapters can be deleted, combined and moved in the Chapter List-Original or the Chapter List-Playlist.

You can insert up to 999 chapter markers.

- 1. Play a title (original or from a playlist).
- Press C-SET at the point you want a new chapter to start. The above display appears on the screen.

Notes:

- Chapter markers can also be added automatically at regular intervals.
- You can change this interval in the main menu "Recording → Automatic Chapter" (see "Automatic Chapter" on page 25).

Changing Title Thumbnails

VR Video



Each title displayed in the "Title List" menu is also represented by a thumbnail. These can be changed as you wish.

- 1. Play a title (original or playlist).
- Press TITLE when the desired new picture appears on the screen. A new thumbnail is then entered into the "Original" or "Play-list" menu.

Creating a New Playlist

VR

You can copy titles or chapters from the appropriate original list into a pre-selected playlist and add them as chapters at the end. (You can delete parts you do not need at a later date. See "Deleting a Part" on page 55).

However, if you add chapter markers at a later date to an item in the original list that has already been copied into a playlist, these new chapter markers are not automatically transferred to the corresponding item in the playlist.

- 1. Press DISC-M/ to call up the "Title List-Original" menu. To find out how to call up the "Chapter List-Original" menu, read the "The Chapter List-Original Menu" on page 48.
- Select a title or a chapter in the "Original" menu that you want to put in a playlist and press **OK**. The options are displayed on the left side of the "Original" menu.



Title List-Original

Chapter List-Original

3. Use ▲ / ▼ to select "Playlists", and press **OK**.



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4. Select "New Playlist" and press **OK**The new title is shown in the updated playlist
(all chapters within the title are added to the
playlist if you have transferred a title into the
new playlist).

Adding Additional Titles/Chapters to a Playlist

VR

You can add a title or a chapter from the original list to a playlist.

- 1. Press DISC-M/ to call up the "Title List-Original" menu. To find out how to call up the "Chapter List-Original" menu, read the "The Chapter List-Original Menu" on page 48.
- Select a title or a chapter from the original lists for a playlist and press OK.
 The options are displayed on the left side of the screen.



3. Use ▲ / ▼ to select "Playlists", and press **OK**.



 Select an existing playlist to add a title or a chapter and press **OK**.
 The updated playlist is displayed.

- 5. Repeat steps 1-4 to add additional titles or chapters to a playlist.
- 6. Select **END** to quit or DISC-M/ to return to the "Title List-Original" menu.

Deleting a Title/Chapter

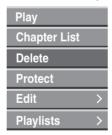
V/R

If you delete a title or chapter from a playlist on DVD-RW discs in VR mode the entry is only removed from the playlist. The title and chapter remain on the disc.

If you delete a title or chapter from the original list, the title or chapter is actually deleted from the disc and additional recording time is released. Titles/chapters deleted from the original lists are also removed from the playlists.

Note: It may not be possible to delete chapters that are less than five seconds long.

- In the "Title List" menu or the "Chapter List" menu select a title or chapter to delete using ▲
 ✓ ♦ and press OK.
 The options appear on the left side of the screen.
- 2. Select the "Delete" option.



Press **OK** to confirm.The confirm delete message is displayed.



- 4. Use ◀ / ▶ to select "Yes" and press OK. The selected title or chapter is deleted. After pressing OK the list is updated.
- 5. Repeat steps 1 4 to delete other items.
- 6. Press **END** repeatedly to quit the menu.

Note:

- With DVD+RW recordings the name of the deleted title is renamed "Empty Title".
- If more than two titles are deleted they are combined into one "Empty Title".

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Deleting a Part

VR

You can delete a part from the original list or from a playlist.

- 1. Press DISC-M/ once or twice to call up the "Title List-Original" or "Title List-Playlists" menu.
- 2. Use ▲ ▼ ◆ ▶ to select
 - frame-by-frame advance (press repeatedly),

 - search () and / or
 - skip to next / previous chapter (P+ / P-) and press OK.

The options are displayed on the left side of the menu.

 Select the "Delete Part" option in the "Play-lists" menu or "Edit → Delete Part" in the "Title List-Original" menu.



Menu options for "Title List-Original"

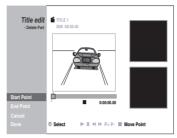


Menu options for "Title List-Playlists"

4. Drücken Sie OK.

The "Edit Title - Delete Part" menu is displayed on the screen.

The "Starting Point" menu item is highlighted.



- 5. Start playback with **OK** and use
 - frame-by-frame advance (press repeatedly),
 slow motion (+ 44 /)
 - search (
 ✓
 /
 D
 and / or
 - skip to next / previous chapter (P+ / P-), to find the starting point.
- 6. Press **OK** at the starting point of the section you want to delete.

The "End Point" menu item is now highlighted. The part to be deleted is indicated between the two markers on the stylized progress bar proportionate to the entire playlist.

- 7. Search for the end point using

 - search () and / or
 - skip to next / previous chapter (P+ / P-), to find the starting point.
- 8. Press **OK** at the end point of the section you want to delete.

To cancel the deletion, select the "Cancel" symbol using ▲ / ▼ and press **OK**.

- To delete the selected part, select the "Done" menu item and press **OK**. The confirm delete message is displayed.
- 10. Use ◀ / ▶ to select "Yes", and press OK. The selected part is removed from the title and the "Title List-Original" menu or "Title List-Playlists" menu is displayed.

Undoing the Last Deletion

VR

Deletion errors can be undone in the original list (but not in a playlist!). Only the last deletion (i.e. only one action) can be undone.

1. Select "Undo" in the "Title List-Original" menu and press **OK**.



Notes: You cannot undo anything once the DVD disc has been removed from the DVD recorder or the recorder has been switched to standby mode. You cannot undo a recording.

Tip: You can redo the last undo action using "Redo". Select **"Redo"** from the "Title List-Original" menu options and press **OK**.

55 -**GB**

Renaming a Title

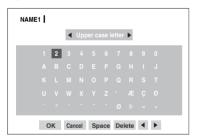
VR Video

Titles can be renamed. The names can be up to 32 characters long.

- Use ▲ ▼ ◆ to select the title to be renamed from the "Title List" menu and press OK.
 The options are displayed on the left side of the menu.
- 2. Use ▲/▼ to select the "Rename" option, and press **OK**.



3. Enter a new name for the title. Use ▲ ▼ ◀ ▶ to select a character and press **OK** to confirm your selection. See step 3 on page 19 (Re-naming a Station).



- Select the OK button on the last line of the menu and press OK to confirm the new name and to return to the initial menu.
- 5. Press END repeatedly to quit the menu.

 Note: When recording using DVD-R, DVD+R or
 DVD+RW discs, the entered name is only displayed
 by the DVD player after finalization.

Combining Two Chapters into One

VR

Use this function to combine two adjacent play-list chapters or original chapters into one.

- In the "Chapter List" menu select the second of the two chapters to be combined and press **OK**. The options are displayed on the left side of the menu.
- 2. Use ▲ / ▼ to select "Combine".



Press **OK** to confirm. After pressing OK the updated menu is displayed.

Note: This function is not available if there is only one chapter within the title.

Moving a Chapter / Playlist

VR

Use this function to change the playback order of the chapters in the "Title List-Playlists" menu.

1. Press DISC-M/ twice to call up the "Title List-Playlists" menu.
To find out how to call up the "Chapter List-Playlists" menu, read the "The Chapter List-Playlists Menu" on page 49.



- 2. Select a chapter in the "Chapter List-Playlists" menu.
- 3. Press **OK**.

 The options are displayed on the left side of the
- 4. Use ▲ / ▼ to select "Move", and press **OK**.



5. Use to select the position you want to move the chapter to (move the blue vertical line) and press OK to confirm the move. After pressing OK the updated menu is displayed.

Note: This function is not available if there is only one chapter.

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Protecting a Title

VR

This function prevents inadvertent overwriting, editing or deleting of a title.

- 1. Press DISC-M/ for the "Title List" menu.
- 2. Use ▲ ▼ ◆ b to select a title to lock and press **OK**.

The options appear on the left side of the screen.

3. Select "Protect" from the options.



4. Press **OK** to confirm.

The "Protect Symbol" (lock) appears in the thumbnail of the protected title.

Note: A protected title can also be unprotected using this procedure. The title can then be overwritten, edited or deleted again.

Hiding a Title/Chapter

Video +RW +R

Use this function to hide a title/chapter in the "Title List" menu or the "Chapter List" menu.

- In the "Title List" menu or the "Chapter List" menu select a title or chapter to hide using
 In the "Title List" menu or the "Chapter List" menu select a title or chapter to hide using
 In the "Title List" menu or the "Chapter List" menu or the "Chapter List"
- 2. The options appear on the left side of the screen.
- 3. Select the option "Edit → Hide".



4. Press **OK** to confirm.

The thumbnail of the title to be hidden now appears dimmed.

Note: A title that has already been hidden can be "shown" again using the option "Edit → Show" (i.e. the hiding is undone).

Dividing One Title into Two Titles

Video +RW

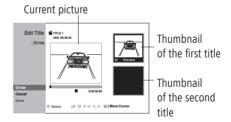
Use this function to divide one title onto two new titles.

- 2. Select the "Edit → Divide" option.



3. Press **OK** to confirm.

The "Edit Title - Divide" menu appears and the film is stopped.



- 4. Start playback and search for the point at which you want to divide the title using
 - frame-by-frame advance (press repeatedly),
 slow motion (+ 4 /).
 - search () and / or
 - skip to next / previous chapter (P+ / P-), to find the starting point.
- 5. Press **OK** at the starting point for the second

The division point is shown in thumbnail #2. To

correct the division point, select the "Cancel" function. Now you can set a new division point or cancel the whole division process by using the "Cancel" function again and return to the "Title List" menu.

 To complete the division, select "Done" and press OK to confirm the division.
 The title is divided into two new titles. This process can take up to 4 minutes.

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Additional Information

Deleting a Disc and Starting New Recording

Video VR

RW discs have the simple option of deleting everything on the disc and automatically starting a new recording at the touch of a button. The disc format remains unchanged.

- 1. Switch the recorder on and insert a writable disc.
- 2. Hold the key down for more than 3 seconds.

The following message appears on the screen.



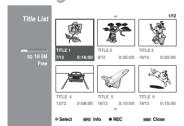
Use ◀ / ▶ to select "Yes", and press **OK**.
 Recording begins. (The REC indicator lights up in the display window.)

Overwriting a Recording

Video +RW

Follow these steps to overwrite an existing title with a new recording (this is not possible with a DVD+R disc, here new recordings are added after the existing ones):

- 1. Select the signal source you want to record (TV program, AV1-4, DV).
- 2. Press DISC-M/ for the "Title List" menu.



- 3. Use ▲ ▼ ◆ b to select a title to be overwritten.
- 4. Press to start the recording.

 The new recording begins at the starting point of the title that is being overwritten.
- 5. To stop the recording press . . .

The new title is created and the updated menu is displayed.

Notes:

- This function does not work with protected titles.
- If the new title is longer than the one to be overwritten, the next title will also be overwritten. If however the next title is protected, the recording will be stopped at the end of the first title to be overwritten.
- If the recording length of the selected title is less than 10 seconds, the next title will be overwritten. However, if the next title is protected the recording will be stopped.

Viewing Title Lists Created on another DVD Recorder

Video +R +RW

Title list menus for DVD+RW or DVD+R discs created on other DVD recorders can also be displayed on this recorder.

- 1. Insert a prerecorded DVD+R or DVD+RW disc.
- 2. Hold down the DISC-M/ button in stop mode for three seconds.

The "Title List" menu appears as below.



3. To play a title select the title and press **OK** or

Note: The "Title List" menu can by hidden by pressing _____ .

Playing your Recordings on other DVD Players

Finalized Video, DVD+R or DVD+RW discs can be played on most DVD players.

A few DVD players can also play prerecorded finalized and unfinalized DVD-RW discs in VR mode. Supported discs are listed in the manual for each player. Finalizing "fixes" the recordings so that the discs can be played on normal DVD players or computers with DVD-ROM drives. During finalization of a disc in Video mode a disc menu is created for navigating the disc. This is accessed by pressing the DISC-M/

Note: Unfinalized DVD+RW discs can be played on normal DVD players provided that their recordings have not been edited at a later date.

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What to do, if ...

Problem	Possible cause	Remedy
No power	The mains cable is not plugged in	Fix the mains cable firmly into a socket.
No image	The television is not switched to receive signals from the DVD recorder.	Select the right video input mode on the television, so that the image from the DVD recorder appears on the television screen.
	The SCART cable is not properly connected.	Connect the SCART cable properly.
	The television that is connected is switched off.	Switch the television on.
No sound	The connected audio equipment is not switched to DVD playback.	Set the audio receiver so that you can hear the sound playing on your DVD recorder.
	The audio cables are not properly connected.	Connect the audio cable properly.
	The connected audio equipment is switched off.	Switch on the audio equipment that is connected.
	The audio connection cable is faulty.	Change it.
Inferior picture quality.	The disc is dirty.	Clean the disc.
Playback not possible.	There is no disc.	Insert a disc. (Check that the disc display comes on in the display window.)
	A non-playable disc has been inserted.	Insert a writable disc. (Check the disc type, the colour system and the region code.)
	The disc has not been inserted with the playable side downwards.	Insert the disc with the playable side downwards.
	The disc has not been properly placed in the guide.	Position the disc properly into the guide in the disc drawer.
	The disc is dirty.	Clean the disc.
	A security rating has been set.	Cancel the security rating or change the protection.
There is interference with images from an external source.	The video signal from the external component is copy-protected.	You cannot get a connection from this recorder. Connect the component directly into the television.
A channel is skipped when using P+ / P- .	The channels have not been saved in the recorder.	Retune the channels. See channel tuning on pages 18-19.
The image or sound on the transmission channel is weak or absent.	Loose antenna or cable.	Tighten the connections or change the cable.
The camcorder image is not displaying.	The camcorder is switched off.	Switch the camcorder and make sure your are using it properly.
The camcorder image is not appearing on the television screen when using the A/V input or DV IN to the DVD recorder.	The DVD recorder AV selection is wrong.	Select the input channel (AV1, AV2, DV etc.) with DVD-AV.
A disc that was recorded to from this DVD recorder cannot be played on a different DVD player.	The disc was recorded in video mode.	Finalising the disc (see page 26)

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What to do, if ...

Problem	Possible cause	Remedy
	Some players do not play discs with finalisation in video mode.	No solution.
	The disc was recorded in VR mode.	The other player must be RW-compatible
	The ability of CD-R / RWs (MP3, JPEG, VCD, SVCD) and DVD+R / RWs and DVD-R / RWs is influenced by the recording equipment, recording methods and data media. Therefore, there may be problems occasionally when playing on conventional DVD players	No solution.
Playback not possible or unsuccessful.	There is insufficient space on the disc.	Use a different disc
	The source that you want to record is copy-protected.	You cannot record the source
	Copy-protected broadcasts cannot be recorded on a video mode disc.	Use a disc formatted in the VR mode for once copiable material
Timer recording not possible.	The time has not been set correctly on the DVD recorder.	Set the correct time. See "Setting the time automatically" or "Setting the time manually" on page 20.
	The timer was wrongly programmed.	Re-program the timer. See "Timer recording" on page 44
	The time between programming the timer and the start of recording is too short.	The recording's start time must be at least 3 minutes into the future.
	After programming, the timer recording LED is no longer displayed.	Re-program the timer.
Stereo-audio recording and/or playback unavailable.	The television is not stereo-compatible or the broadcast transmission is not in stereo format.	No solution.
	The DVD recorder's A/V Out sockets are not connected to the TV's A/V In sockets.	Make the A/V connections.
	The DVD recorder's audio/video Out has not been selected for the television.	Select the AUX or A/V source as the TV input.
	The DVD recorder's TV audio channel must be set to Mono.	Set the TV's audio channel to stereo. (see page 43)
The remote control is not working properly.	The remote control's batteries have run out.	Replace the old batteries with new ones.

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Technical Specifications

General

Centros 1102 Item No. 64501 Centros 1172 Item No. 64511 Power supply AC 110-240V, 50/60 Hz Power consumption During operation: 35 W In standby mode: 5 W 430 X 75 X 325 mm (W x H x D) Dimensions (approx.)

Weight (approx.) 5.5 ka Operating temperature 5 °C to 35 °C Humidity 5 % to 90 %

TV system Centros 1102: PAL B/G, PAL I, Secam DK Centros 1172: PAL B/G, Secam L

Recording format PAL

Recording

Recording format DVD Video-Recording, DVD-VIDEO Writable discs DVD-ReWritable, DVD-Recordable, DVD+ReWritable, DVD+Recordable Approx. 1 hour (HQ mode), 2 hours Writable time (SQ mode), 4 hours (LQ mode),

Video recording format

Sampling frequency 27MHz Compression format MPEG 2

Audio recording format

Sampling frequency 48kHz Compression format **Dolby Digital**

Playback

Signal-to-noise ratio

Frequency response DVD (PCM 48 kHz): 8 Hz to 22 kHz.

CD: 8 Hz to 20 kHz

6 hours (EQ mode)

DVD (PCM 96 kHz): 8 Hz to 44 kHz Over 100 dB (AUDIO OUT connection)

Harmonic distortion Less than 0.008%

(AUDIO OUT connection)

Dynamic range Over 95 dB (AUDIO OUT connection)

Inputs

Aerial input, 75 ohms AERIAL IN 1.0 Vp-p 75 ohms, negative sync., VIDEO IN

RCA socket x 2 / SCART x 2

0 dBm over 47 kohms. RCA socket AUDIO IN

(L, R) x 2 / SCART x 2

DV IN 4 pins (i.LINK/IEEE 1394-Standard) Cardreader 3 in 1: SD, MMC, Memorystick

Outputs

VIDEO OUT 1 Vp-p 75 &, negative sync.,

RCA socket x 1/ SCART

(Y) 1.0 V (p-p), 75 ohms, negative sync., S-VIDEO OUT

> Mini DIN 4-pin x 1 (C) 0.3 V (p-p) 75 ohms

COMPONENT VIDEO OUT (Y) 1,0 V (p-p), 75 ohms, negative sync.,

RCA socket x 1 (Pb)/(Pr) 0.7 V (p-p), 75 ohms,

RCA socket x 2

Audio output (digital audio) 0.5 V (p-p), 75 ohms, RCA socket x 1 Audio output (optical audio) optical connection x 1 (TOS-Link) Audio output (analog audio) 2,0 Vrms (1 kHz, 0 dB), 600 ohms,

RCA socket (L, R) x 1 / SCART

• Design and technical specifications are subject to change without notice.

· Manufactured under license from Dolby Laboratories. Dolby, ProLogic and the

double-D symbol are trademarks of Dolby Laboratories.

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

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Operating additional devices with RC3

Using other Loewe devices with the RC3 remote control

You can use other Loewe devices with this remote control.



Use the rotary switch to select VCR, TV or a set-top box. Loewe video recorders, Loewe television sets and the d-box which is commonly used in Germany as a

set-top box are set up ex-factory.

Using the drive buttons in the TV and STB position for a VCR, DVD or digital recorder

With both the TV and the STB, you can switch over , , , so that they control a VCR or DVD player/recorder (ex-factory it is set to control the built-in "Digital Recorder Plus"):



* EPG





PIP

GB) - 62

First set the switch to the main TV or STB function.

Then press the **END** and *** EPG** buttons simultaneously for at least 5 seconds. The display in the top left of the remote control will flash twice.

Key in the figures 988. The display will flash twice more. Now set the switch to the function that you require for the drive buttons:

to DVD or VCR, or TV if the digital recorder is to be used.

Press the # PIP button to finalise the setting. The display will flash another two times.

Setting the remote to control devices made by other manufacturers

You can set the remote to work with other video recorders, DVD players or set-top boxes if the infra-red code of the device type appears in the code list or if it is held in the RC3's code memory.

Even if the device's manufacturer appears in the code list, it could be that the device cannot be controlled

Using a code input to set the remote

Look for the code number for your device in the code list (see from page 63). The list is sorted according to device type – DVD, VCR, STB – and alphabetically by manufacturer. You will find one or more code numbers next to the manufacturer name.



Use the rotary switch to select whether you want to switch to using a VCR, DVD device or a set-top box.

Press the **END** and *** EPG** buttons simultaneously for at least 5 seconds. The display in the top left of the remote control will * EPG flash twice.

0 AV **5** jkl 3 def

9 wxyz

Key in, one at a time, the four figures that you have found in the code list (e.g. 0539 for the Loewe DVD player).

After each figure that you key in, the display will flash once, and after the last figure it will flash

twice. If the figure was wrong, the display will stay illuminated for longer. This means that the code number has not been accepted. If a double-flash signifies that the code has been accepted, you can test the functionality of the device that you have programmed.

If you are unable to control the device, or have difficulty in controlling it properly, repeat the code input with the next code in the list. If there are no other codes listed for the manufacturer in question, try using the remote control's suggestions.

Using the remote's suggestions to set up remote control

Switch on the device which you want to convert the remote control to. Note that Standby is inadequate!

flash twice.

the first code

Use the rotary switch to select whether you want to switch to using a VCR, DVD device or a set-top box. Press the **END** and * **EPG** but-

tons simultaneously for at least

left of the remote control will

Key in, one by one, the figures

991. The display will flash once

Press the # PIP button to select

after each figure is input.

5 seconds. The display in the top



* EPG

9 wxyz

9 wxyz)

PIP

Point the remote at the device which you want to convert it to control. Watch the device.

Now press the ▶ (Play) or On/Off buttons on the remote control.

▶ ७

Wait a moment for the device to react. If the device fails to react, this is not the right code. Press the # PIP button again to get the next code.

PIP

Press the ▶ (Play) or **On/Off** buttons again.



If the device reacts, press the * **EPG** button to copy over the



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Loewe

0539
0741
1127
0866

The following video recorders may be controlled: ViewVision 8106H, 8136H, 8176H, 6306H, 6336H, 6376H, 6396H, 4306H, 4376H, 2102M, 2302M, 4206, 4236, 4276.

If using devices other than the listed Loewe units, please use the original remote control or the video menu bar.

DVD

3DLAB A-Trend					0539 0714
Acoustic Sc	olution	S			0730
AEG				0788	
Aiwa Akai 0790	0700	0600	0716	0641 0713	
AKII 0790	0/00	0090	0/10	0/13	0703
Akira					0699
Alba	0717	0699	0713	0723	
All-Tel					0790
Amitech					0770
Amstrad					0713
Apex Digita Audiosonic					0672 0690
AWA					0730
Black Diam	ond				0713
Blaupunkt					0717
Blue Sky	0699	0695	0713	0672	
Boman					0783
Brain Wave	j			0051	0770
Brandt Bush		0699	0690	0651 0689	
DUSII	0713	0818			
C-Tech	07.5	00.0	0055		0768
Cambridge	Audio				0696
Cambridge	Sound	lworks			0696
CAT					0699
Celestial Centrex				0672	0672 1004
Centrum				0672	0713
cineULTRA					0699
Classic					0730
Clatronic					0788
Clayton					0713
Coby					0730

Carria		0.672	1 Carling				0.673	Na. f. al.				0005
Conia	770 0654	0672	Hiteker				0672	Neufunk				0665
	770 0651		Home Electronic	.5			0730	Nordmende			0.000	0831
Cybercom	0744	0831	Hyundai				0783	Omni			0690	
CyberHome		0816	Ingelen				0788	Onkyo			0627	
-,	716 0651		ISP				0695	Optimus				0571
Daewoo 0	770 0705	0714	Jeken				0699	Orava				0818
Daewoo International		0699	JMB				0695	Orion				0695
Dansai	0770	0783	JVC 062	3 0539	0503	1901	1940	Oritron				0651
Dantax		0723	Karcher				0783	P&B				0818
DEC	0699	0818	Kendo				0699	Pacific	0768	0790	0713	
Decca	0033	0770	Kenwood		0534	0490		Palladium	0,00	0.50	07.5	0695
Denon	0490	0634	Kiiro		0334		0770	Palsonic			0689	
Denver		0788				0710	0818	Panasonic			0490	
	0099		Kingavon								0490	
Denzel		0665	Kiss				0665	Panda	0500	0010	0500	0783
	0651 0768		Koda				0818	Philips	0539	0646	0503	
Digihome		0713	Koss				0651	Phonotrend				0699
digiRED		0717	Lawson		0705	0716		Pioneer	0571	0631	1900	
Digitrex		0672	Lecson				0696	Pointer				0770
DiK		0831	Lenco	0699	0651	0770	0818	Powerpoint				0718
Dinamic		0788	Lenoxx				0690	Proline	0651	0672	0790	1004
DiViDo		0705	Lexia				0699	Proscan				0522
DK digital		0831	LG		0591	0741	1906	Prosonic				0699
DMTECH	0783	0790	Lifetec				0651	Provision				0699
Dragon	0703	0831	Limit			0716	0768	Radionette				0741
	0651 0713		Loewe				1922	Raite				0665
	0783 0790					0333	0768	Rank Arena				0718
	0/83 0/90		LogicLab			0705					0522	
E-Boda		0723	Logix			0705	0783	RCA			0522	
Eclipse		0723	Lumatron				0705	REC			0689	
Electrohome		0770	Luxman				0573	Red Star			0770	
Elin		0770	Luxor				1004	Reoc				0768
Elta 0690 0	770 0788	0790	Magnavox			0503	0818	Revoy				0699
Emerson	0591	0705	Magnex				0723	Roadstar 0699	0690	0689	0713	0818
Enzer		0665	Manhattan				0705	Rotel				0623
Ferguson		0651	Marantz				0539	Rowa				1004
	741 0770		Mark				0713	Saba				0651
Firstline	0	0651	Matsui			0651	0695	Sabaki				0768
Funai		0695	MBO				0730	Salora				0741
GE		0717	MDS			0030	0699	Samsung			0573	
Global Solutions		0768	Medion	0651	0783	0716			0716	0760		
		0768	Memorex	0031	0763	0710	0831		0/10		0695	
Global Sphere						0574		Sanyo		0670	0095	
Go Video	0504	0783	Metz			05/1	0713	Scan				0705
GoldStar		0741	MiCO				0723	ScanMagic			0700	0730
	004 0790		Microboss				0718	Schaub Lorenz			0788	
0	783 0723		Micromaxx				0695	Schneider 065	0783	0705	0790	
Graetz		0665	Micromedia			0503	0539	Scientific Labs				0768
Grandin		0716	Micromega				0539	Scott		0718	0651	0672
Grundig 0539 0	0695 0651	0775	Microsoft				0522	SEG		0665	0713	0768
0705 0790 0	713 0670	0723	Microstar				0831	Shanghai				0672
Grunkel		0770	Minax				0713	Sharp			0630	
H&B	0818	0713	Minoka				0770	Sherwood		0717	0741	
Haaz	0010	0768	Mitsubishi				0713	Shinco		0.17	2. 11	0717
Hanseatic		0741	Mizuda				0818	Silva				0788
HCM		0741	Monyka				0665	SilvaSchneider				0831
HDT		0705	Mustek				0730			იგიი	0716	
						0654		Singer		0090		
HE		0730	Mx Onda			ו לטט	0723	Skymaster			0730	
Henß	0664 0665	0713	NAD				0741	Slim Art		0722	0766	0770
Hitachi 0	0664 0665	05/3	Naiko				0770	SM Electronic		0730	0768	0690

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Smart	0718	0705	0713					0348	0081	Etzuko					0072	JVC			0041	0067	0384
Sonashi			0716	Allorgan					0240	Fast					0897	Kaisui					0072
Sony 0533	0573	1903	1904	Allstar					0081	Ferguson		0041	0320	0000	0278	Kambrook					0037
Soundmaster			0768	Amstrad			0000	0278		Fidelity				0072		Karcher					0278
Soundmax			0768	Anitech					0072	Finlandia	0104	0081		0000		Kendo	0106	0209	0315	0348	
Soundwave			0783	Ansonic					0000	0384	0101	0001	0012	0000	0010	remao	0100	0203	0313	03 10	0037
Standard		0651	0768	Aristona					0000	Finlux		0000	0001	0104	0042	Kenwood				00/11	0037
		0031	0708					0027	0081		0072			0043		KIC				0041	0000
Starmedia				ASA	0072	0027	0001			Firstline	0072	0209									
Sunwood		0700	0788	Asuka		0037	1800	0000		F: 1				0042		Kimari				0040	0047
Supervision		0730		Audiosonic					0278	Fisher			0047	0104		Kneissel		0352	0209	0348	
SVA			0672	AVP					0000	Flint					0209	Kolster				0209	0348
Synn			0768	AWA				0642		Frontech					0072	Korpel					0072
Tandberg			0713	Baird	0106	0278		0041		Fujitsu					0000	Kuba					0047
Tatung			0770	Basic Line			0278	0209	0072	Funai					0000	Kuba Elect	ronic				0047
Teac 0717 0741	0571	0768	0591	Bestar					0278	Galaxi					0000	Kuwa					0226
			0790	Black Diam	ond			0642	0278	Galaxis					0278	Kyoto					0072
Technics		0490	1908	Black Panth					0278	GE					0320	Lenco					0278
Technika		0.50	0770	Blaupunkt			1562	0226		GEC					0081	Levco					0072
Techwood			0713	Blue Sky		0037		0348		General Te	chnic				0348	LG			0037	0000	
Tensai		0600	0651	Dide 3ky		0037		0278		Genexxa	CITITIC				0104	Lifetec			0037		0348
			0768	Dondetoe			0332	0276	0000	Goldhand					0104	Loewe	0001	1562	0226	0866	
Tevion		0051		Bondstec				0041						0027			0001				
Theta Digital		0554	0571	Brandt				0041	0320	GoldStar		0000	0073	0037		Logik		0240	0072	0106	
Thomson			0522	Brandt Elec	troniq	ue			0041	Goodmans				0240		Lumatron					0278
Tokai			0788	Brinkmann					0348		7 0081	0348				Luxor	0106	0043	00/2	0104	
Tokiwa		0705	0716	Bush0072	0278	0315	0209			Graetz				0104							0048
Toshiba			0503					0348		Granada	0104	0048		0240		Magnavox					0081
Umax			0690	Carena				0209	0081				0226	0042	0000	Manesth		0072	0045	0081	0209
United	0788	0730	0790	Carrefour					0045	Grandin	0072	0037	0000	0278	0209	Marantz			0081	0038	0209
Universum	0741	0713	0591	Casio					0000	Grundig	0081	0347	0226	0320	0348	Mark					0278
Venturer			0790	Cathay					0278	3					0072	Matsui	0209	0348	0037	0240	
Vieta			0705	CGE				0041	0000	Haaz				0348	0209						0000
Voxson		0730		Cimline					0209	Hanimex				05.0	0352	Mediator					0081
Walkvision		0730	0717	Clatronic					0000	Hanseatic	0037	กวกด	0278	0081		Medion			ივიი	0348	
Welkin			0831	Combitech				0072	0352	Harwood	0037	0203	0270	0001	0072	Melectroni	_				
Wesder			0699	Condor					0278	HCM					0072			0000			
		0000	0723					0270			0072	0200	0252	0041			0104	0000	0037	0048	
Wharfedale		0090		Crown				0278	0072	Hinari	0072	0209	0352	0041		Memphis	4560	0047	0004	0226	0072
Windy Sam			0573	Cyrus					0081						0240	Metz	1562	0347	0081	0226	
XBox			0522	Daewoo	02/8	0642	0209	0348	0352	Hisawa				0209		Micormay					0348
XLogic			0768	0045						Hischito					0045	Micromaxx					0209
XMS		0788	0689	Dansai				0072	0278	Hitachi	0042	0041	0000	0240		Migros					0000
Yamada			1004	Daytron					0278					0104		Mitsubishi			0043	0067	0081
Yamaha	0490	0539	0646	de Graaf		0042	0081	0104	0048	Hornyphor	ne				0081	Multitec					0037
Yamakawa	0665	0710	0765	Decca	0000	0041	0081	0067	0348	Hypson		0072	0209	0278	0352	Multitech			0000	0072	0104
Yelo			0718	0209						Imperial				0000	0240	Murphy					0000
Yukai			0730	Deitron					0278	Ingersoll				0209	0240	Myryad					0081
Zenith	0503	0591	0741	Denko					0072	Inno Hit			0240	0278	0072	NAD					0104
20	0505	055.	0,	Diamant					0037	Interbuy			02.0	0037		National				1562	0226
VCR				Domland					0209	Interfunk				0081		NEC	00/11	UU38	0067	0104	
Ven				Dual		0041	0001	0278		Internal				0001	0278	Neckermar		0036	0007		0037
Adyson			0072			0041		0081			201			0278			111		0072		
Aiwa0307 0000 0209	0240	0252		Dumont			0000			Internation Intervision		0270	0027			Nesco			0072	0000	
Alwa0307 0000 0209	0346	0332		Elbe				0278	0038		0000	0278				Neufunk				0070	0209
Al: 040C 034E	0044	0252	0041	Elcatech					0072	Irradio	040-			0037		Nikkai					0278
Akai 0106 0315	0041	0352		Elin					0240	IΠ	0106	0041	0384	0104		Nokia	0104			0041	
Akashi			0072	Elsay					0072	ITT Nokia					0048					0042	
Akiba			0072	Elta					0278	ITV				0278		Nordmend	е	0041	0384	0320	0067
Akura		0072	0041	Emerson			0072	0045	0000	JMB				0209	0352	NU-TEC				0209	0348
Alba0278 0072 0209	0352	0000	0315	ESC				0278	0240	Joyce					0000	Oceanic	0000	0048	0106	0081	0104
										,											

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0041						Seleco			0041	0384	0037	Ultravox				0278	Blaupunkt				0173
Okano	0315	0209	0348	0072	0278	Sentra					0072	Unitech				0240	Blue Sky			0713	0885
Orbit					0072	Setron					0072	United Quick St	tar			0278	Boca			0132	0713
Orion			0209	0352	0348	Sharp			0048	0037	0569	Universum	0000	0081	0240	0037	Boston		0132	0710	0668
Orson					0000	Shintom				0072	0104		0106	0348	0209	0104	Broco				0713
Osaki			0000	0037	0072	Shivaki					0037	Victor				0067	BskyB			0847	1175
Osume					0072	Siemens	0037	0104	0081	0320	0347	Watson	0081	0352	0278	0642	BT			0668	0710
Otake					0209	Siera					0081	Weltblick				0037	Bubu Sat				0713
Otto Versar	nd				0081	Silva					0037	Yamaha				0041	Cambridge				0501
Palladium		0315	0037	0041		Silver					0278	Yamishi			0072		Canal Satellite				0853
ranaarani	0072	0313		0348		Singer					0045	Yokan			0072	0072	Canal+				0853
Palsonic			0240	0072		Sinudyne				0081	0209	Yoko		0037	0072		Cherokee		0123	0710	
Panasonic				1562		Smaragd				0001	0348	ZX		0037	0072	0209	Chess	015	7 0605		
Pathe Cine	ma			1302	0043	Sonitron					0047	LA				0203	CityCom		0003		
					0043						0047						,		5 0115		0396
Pathe Marc	COIII			0000		Sonneclair Sonoko					0072						Clemens Kamp	ilus		0654	0396
Perdio Philco				0000							0278	SAT /STB)					Cobra			0000	0132
						Sonolor				0027							Colombia			8000	
Philips				0081		Sontec					0278	@sat				1300	Columbia				0132
Phoenix					0278	Sony			0027		0106	ABsat	0668	3 0123	1323		Columbus				0668
Phonola			0067	0001	0081	Soundwave			0037	0209		ADB				0642	Comag				0132
Pioneer			0067	0081		Ssangyong					0072	Adcom				0200	Condor				0607
Portland					0278	Standard				0007	0278	AGS			0668		Connexions	0.00	. 0570	0445	0396
Prinz				0004	0000	Starlite				0037	0104	Akai				0200	Conrad		7 0573		
Profitronic				0081		Stern			0200	0240	0278	Akena				0668	Conrad Electro	1IC			0713
Proline				0000		Sunkai			0209	0348		Alba			0455		Cryptovision			0455	0795
Prosco				0070	0278	Sunstar					0000	Allsat		0200	1017		Cyrus		4407		0200
Prosonic			0209	0278		Suntronic					0000	Alltech				0713	D-box		1127	1114	
Protech					0081	Sunwood					0072	Alpha			0668	0200	Daeryung			4200	0396
Provision					0278	Supra					0240	Altai				0396	Daewoo			1296	0713
Pye					0081	Symphonic				0000	0072	Amitronica				0713	Delfa				0863
Quasar					0278	T+A					0226	Ampere				0132	Deltasat				1075
Quelle					0081	Taisho					0209	Amstrad 084	47 0713	0742	0396	0132	DGTEC				1242
Radialva		0037	0072	0081		Tandberg					0278	0882 088	35 0863	0501	0795	1113	Digatron				1294
Radiola					0081	Tashiko				0081		Anglo				0713	Digenius				0299
Rank					0041	Tatung	0000	0041		0048		Ankaro				0713	Digiality				0607
Reoc			0209	0348		_				0348		AntSat			1017	1083	Digipro				1105
Rex				0041		Teac	0072	0041		0278		Apollo				0455	DigiQuest				0863
RFT					0072				0037	0081		Arcon 120	05 1043	0834	0132	1075	Diskoverer				0157
Roadstar		0240	0072	0037		TEC				0278	0072	Armstrong				0200	Diskovery			0668	0710
Royal					0072	Tech Line					0072	Asat				0200	Diseqc				0710
Saba		0041	0320	0384		TechniSat				0348	0209	ASLF				0713	Distratel		0084	0885	
Saisho				0209		Teleavia					0041	AssCom				0853	Distrisat				0200
Salora			0043	0106		Telefunken		0041		0384		Astacom			0668	0710	DMT				1075
Samsung				0240	0432	Teletech			0072	0278		Aston				1129	DNT			0200	0396
Sansui	0041	0067	0106	0072	0348	Tenosal					0072	Astra			0607	0713	DREAM multim	edia.TV			1237
Sanyo		0104	0047	0048	0067	Tensai			0000	0037	0072		33 0173	0501			DStv			0642	0879
Saville			0352	0278	0240	Tevion				0348	0209	7.5		3 1099							
SBR					0081	Thomson	0320	0041	0067	0384	0278	Athena				0668	Echostar 06	10 1169	9 0871	0167	0853
Scan Sonic					0240	Thorn			0041	0104	0037	Atlanta				0871	108	36 1200	0454	0396	0713
Schaub Lor	renz	0041	0104	0000	0106	Thorn-Ferg	uson				0320	Aurora				0879			0668	0511	0453
					0315	Tokai		0072	0037	0041	0104		63 0642	0497	0879		Einhell		0132	0713	0501
Schneider	0072	0000	0037	0081	0278	Tokiwa		_		-	0072	Avalon	J JU-12	. 0 131	0013	0396	Elap	0713	3 1129		
				0042		Topline					0348	Axiel			0668		Elsat				0713
Seaway					0278	Toshiba	0045	0041	0384	0043	0081	Axis			1111		Elta				0200
SEG	0072	0240	0278	0642		Towada					0072	Beko				0455	Emme Esse				0871
SEI					0081	Tredex					0278	Bentley Walker	r			1017	Engel			1017	0713
Sei-Sinudyr	ne				0081	Uher				0037	0240	Denticy Walker				.017	EP Sat				0455

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	34 0885 0882	International			0132	Minerva				0571	Radix		0396	1113	
Eurocrypt	0455	Interstar		1105		Mitsubishi				0455	RFT				0200
	07 0501 0200	Intervision		0628		Morgan's		0200	0713		Roadstar				0713
Europhon	0299 0607	Invideo			0871	Motorola				0856	Rover			0628	
Eurosky 0607 013	32 0299 0115	IRTE			0609	Multichoice			0642		Saba	0710	0885	0115	
	0114 0501	Italtel			0871	Multitec				0157	Sabre				0455
Eurostar	0607 0115	ITT Nokia	0573	0455		Myryad				0200	Sagem			1114	
Fenner 0668 015	7 0605 0713	JOK			0710	Mysat				0713	Samsung 0863	1243			
Ferguson	0455	JVC			0571	Netgem				1322			1017	1293	
Fidelity	0501	K-SAT			0713	Neuhaus	0501	0713	0834	0607	SAT				0501
Finlandia	0455	Kamm			0713	Neusat			0713	0834	Sat Control				1300
Finlux	0573 0455	Kaon			1300	Nikko		0713	0723	0200	Sat Partner				0501
Flair Mate	0713	KaTelco			1111	Nokia 1023	3 1114	0751	1127	0723	Sat Team				0713
Force	1101	Kathrein	0658 0249	1057	0173	0853	3 0573	1223	0455	1723	Satcom			0605	0607
Fortec Star	1017 1083	1221	0200 0713	0668	0742				1310	1312	Satec			0713	0834
Foxtel 0879 072	20 0455 0497		0123 0115			Nordmende				0455	Satline				0628
	0795 1176	Kathrein Eurostar			0115	Nova				0879	Satstation				1083
Fracarro	0871 0668	Kiton			0114	OctalTV				1294	Schneider	0710	0668	0157	1206
Freecom	0501 0173	Klap		0668	0710	Okano				0668	Schwaiger	0605	0157	0607	0885
Freesat	0882	Konig			0607	OnDigital 075	0329	0241	0867	0133				0132	
FTEmaximal	0713 0863	Koscom		0834	1043	Optex				0834	SCS			0115	0299
Fuba 0396 0173 057	73 0115 0299	Kreiling	0658	0249	0114	Optus			0879	0853	Seemann				0396
Fugionkyo	1105	Kreiselmeyer			0173		1100	0200			SEG	0605	0742	0114	
Galaxis 1111 1101 083		Kyostar			0132	Origo				0497	Seleco		*		0871
0853 0115 0879		L&S Electronic			1043	Ouralis				1205	Septimo			1205	
Garnet	1075	Labgear			1296	Oxford				0668	Siemens			.205	0173
GF	0834 1043		0115 0132	0157			5 0847	0887	1175		Skantin				0713
GF Star	1043	Lenco		0115			7 0123				Skinsat				0501
GOD Digital	0200	Lenson	0713	0113	0501	0720 049					SKR				0713
Goldbox	0853	Lexus			0200	Packsat	7 0200	, 0033	0710	0710	Sky	0947	0856	0887	
Goldvision	1017	LG			1075	Palcom				0299	SKY+	0047	0000	0007	1175
Gooding	0571		0605 0299	10/12		Palladium			0571		Skymaster	0712	0605	0157	
Goodmans	1284 0455	Logix	0003 0299	1043		Palsat			03/1	0501	Skylliastei	0/13		1075	
Gradiente	0887		1294 0607			Panasat			0879		Skymax		1003	1073	0200
Granada	0455	Luxor	1294 0007	0573		Panasat	0047	1104			,		0157	0605	
Grandin	0084	M&B1		05/5	0605	Panda		0607			SkySat SL		0157	0132	
Grundig 0173 0847 115		Manata	0710	0668		Patriot	0433	0007	01/3	0668	SM Electronic		0157	0713	
0571 0750 0879 088			1083 0455				1114	0053	0455		3IVI EIECTIONIC		0137	1075	
03/1 0/30 06/9 066		Manhattan	1065 0455								Cmart	0122	0200		
Hansantis 000	1297 1330	Maranta		0834		0710 0668	5 05/1				Smart			1101	
	05 1099 1100	Marantz	0750 0710	0172	0200	Phonotrend			1017		C			0115	
Hänsel & Gretel	0132 0607		0750 0713			Pioneer		0329	0853		Sony	0282	0847	0853	
Hauppauge	1294	Matsui	05/1	0710		Planet			0871		SR				0132
HDT	1011	Max			0607	Polytron				0396	Starland	0053	1105	1150	0713
Heliocom	0607	MB			0605	Praxis	0400			0511		0853	1105	1159	
Helium	0607	Mediabox			0853	Preisner		0396			Sunsat				0713
	32 1113 1111	Mediacom		0504	1206		3 1114				Sunstar				0132
0173 0573 108		MediaSat		0501		1176 119	1100	0249	0658		Tantec				0455
	10 0607 0668	Medion	0/13	0299		Primacom				1111	Tatung				0455
Hitachi	0455	Medison			0713	Profile			0668		Teac				1322
HNE	0742 0132	Mega			0200	Promax				0455	Tecatel				1200
Houston	0668 0396	Metronic 0713	1215 0084	0885		Prosat				0628	TechniSat	0200	1099	1100	
Humax	1176 0863	Metz			0173	Prosonic				0742				0501	
	7 1017 1075	Micro	0607	0501		Pye				0571	Technosat				1206
	11 1159 1075	Micro electronic			0713	Pyxis				0834	Technowelt			0607	
ID Digital	1176 0863	Micro Technology			0713	Quadral	0628	0668			Techsan				1017
Imex	0084	Micromaxx			0299	Quelle		0607	0742		Techwood				0114
Ingelen	0396 0882	Microtec			0713	Radiola				0200	Telasat		0605	0115	0607

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Talasial					1042
Teleciel Telecom					1043 0713
Telefunken					0710
Teleka	0396	0750	0501	0607	0834
Telesat Telestar		0501	1000	0605	0607
ielestai		0501	1099	1100 0200	0114 0157
Teletech				0200	0114
Televes			0455	0501	0132
Thomson	0455	0713	0853	0115	0607
Thorn	1291	0820	0668	0710	1046 0455
Tokai					0200
Tonna	0455	0668	0501	0713	0834
Topfield					1206
Toshiba TPS				0020	0455 1253
Triasat				0820	0501
Triax	0501	0115	0200	0396	0713
	0853	30114	1296	1291	0132
Turnsat				0122	0713
Twinner UEC				0132	0713 0879
Uher					0157
Unisat					0200
Universum		0173		0607	0299
Van Hunen			0115	0742	1087 0299
Variosat					0233
Ventana					0200
Vestel					0742
VH-Sat Viasat			1222	1022	0299 0820
Viasat Visionic			1323	1023	1105
Visiosat				0710	0713
Wetekom			0157	0605	0501
Wewa Wisi	0173	0396	0200	0455	0455 0501
VVISI	01/3	0390	0299	0455 0607	0834
Worldsat		0710	0114	0123	0668
XCOM				0123	0668
XSat			0668	0713	0123
Xtreme YES					1300 0887
Zehnder	1075	0742	0114	0115	0419
Zenith					0856
Zeta Techno	ology				0200
Zinwell					1176
Cable B	ox (S	STB)			
Austar					0276
BT					0003

France Telecom General Instruments Jerrold Kabelvision Macab Melita MNet Mr Zapp Noos NTL Cabletell Ono	0003	0817 0276 0276 0003 0817 0003 0443 0817 0817 0276 1068
Optus	0276	
Pace Philips	1068 0817	1060 0286
PVP Stereo Visual	0017	0003
Sagem		0817
Tele+1		0443
Telepiu		0443
Tudi		0286
United Cable		0003
Visiopass		0817

Cable Box (STB)	
Austar	0276
BT	0003
Canal Plus	0443
Comcrypt	0443
Decsat	0423
Filmnet	0443

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Language Code List

Enter the appropriate code when first setting up "Disc Audio", "Disc Subtitles" and/or "Disc Menu". (Further information can be found under "Disc Languages" on page 21.)

Code	Language	Cada	
6565	Language Afar	Code 7387	Language Hebrew
6566	Abkhaz	7367 7465	
6570	Afrikaans	7403	Japanese Yiddish
6577	Amharic	7473	Javanese
6582	Arabic	7565	Georgian
6583	Assamese	7575	Kazakh
6588	Aymara	7576	Greenlandic
6590	Azerbaijani	7577	Cambodian
6665	Bashkir	7578	Canadian
6669	Byelorussian	7579	Korean
6671	Bulgarian	7583	Kashmiri
6672	Bihari	7585	Kurdish
6678	Bengali; Bangla	7589	Kirgiz
6679	Tibetan	7665	Latin
6682	Breton	7678	Lingala
6765	Catalan	7679	Laotian
6779	Corsican	7684	Lituanian
6783	Czech	7686	Latvian
6789	Welsh	7771	Malagasy
6865	Danish	7773	Maori
6869	German	7775	Macedonian
6890	Bhutanese	7776	Malayalam
6976	Greek	7778	Mongolian
6978	English	7779	Moldovian
6979	Esperanto	7782	Marathi
6983	Spanish	7783	Malay
6984	Estonian	7784	Maltese
6985	Basque	7789	Burmese
7065	Persian	7865	Nauruan
7073	Finnish	7869	Nepalese
7074	Fijian	7876	Dutch
7079	Faroese	7879	Norwegian
7082	French	7982	Oriya
7089	Frisian	8065	Punjabi
7165	Irish	8076	Polish
7168	Scottish	8083	Pashto
	Gaelic	8084	Portuguese
7176	Galician	8185	Quechua
7178	Guarani	8277	Romansh
7185	Gujarati	8279	Romanian
7265	Hausa	8285	Russian
7273	Hindi	8365	Sanskrit
7282	Croatian	8368	Sindhi
7285	Hungarian	8372	Serbocroat
7289	Armenian	8373	Singhalese
7365	Interlingua	8375	Slovak
7378	Indonesian	8376	Slovene
7383	Icelandic	8377	Samoan
7384	Italian	8378	Shona

Code	Language
8379	Somali
8381	Albanian
8382	Serbian
8385	Sudanese
8386	Swedish
8387	Swahili
8465	Tamil
8469	Telugu
8471	Tadzhik
8472	Thai
8473	Tigrinya
8475	Turkmen
8476	Tagalog
8479	Tongan
8482	Turkish
8484	Tatar
8487	Twi
8575	Ukranian
8582	Urdu
8590	Uzbek
8673	Vietnamese
8679	Volapuk
8779	Wolof
8872	Xhosa
8979	Yoruba
9072	Chinese
9085	Zulu

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List of country codes

Key in the corresponding code when first setting the "country code" (see page 24).

Code	Country code	Code	Country code	Code	Country code	Code	Country code
AD	Andorra	CV	Cape Verde	HU	Hungary	MS	Montserrat
ΑE	United Arab Emirates	CX	Christmas Islands	ID	Indonesia	MT	Malta
AF	Afghanistan	CY	Cyprus	ΙE	Ireland	MU	Mauritius
AG	Antigua and Barbuda	CZ	Czech Republic	IL	Israel	MV	Maldives
ΑI	Anguilla	DE	Germany	IN	India	MW	Malawi
AL	Albania	DJ	Djibouti	10	British Territory	MX	Mexico
AM	Armenia	DK	Denmark		in the Indian Ocean	MY	Malaysia
AN	Dutch Antilles	DM	Dominica	IQ	Iraq	MZ	Mozambique
AO	Angola	DO	Dominican Republic	IR	Iran	NA	Namibia
AQ	Antarctic	DZ	Algeria	IS	Iceland	NC	New Caledonia (French)
AR	Argentina	EC	Ecuador	IT	Italy	NE	Niger
AS	American Samoa	EE	Estonia	JM	Jamaica	NF	Norfolk Island
AT	Austria	EG	Egypt	JO	Jordan	NG	Nigeria
AU	Australia	EH	West Sahara	JP	Japan	NI	Nicaragua
AW	Aruba	ER	Eritrea	KE	Kenya	NL	Netherlands
ΑZ	Azerbaizhan	ES	Spain	KG	Kirghizia	NO	Norway
BA	Bosnia-Herzegovina	ET	Ethiopia	KH	Cambodia	NP	Nepal
BB	Barbados	FI	Finland	KI	Kiribati	NR	Nauru
BD	Bangladesh	FJ	Fiji	KM	Comoros	NU	Niue
BE	Belgium	FK	Falkland Islands	KN	Saint Kitts and Nevis Anguilla	NZ	New Zealand
BF	Burkina Faso	FM	Micronesia	KP	North Korea	OM	Oman
BG	Bulgaria	FO	Faroe Islands	KR	South Korea	PA	Panama
BH	Bahrain	FR	France	KW	Kuwait	PE	Peru
BI	Burundi	FX	France (European	KY	Cayman Islands	PF	Polynesia (French)
BJ	Benin		Territory)	KZ	Kazakhstan	PG	Papua New Guinea
BM	Bermuda	GA	Gabon	LA	Laos	PH	Philippines
BN	Brunei Darussalam	GB	Great Britain	LB	Lebanon	PK	Pakistan
ВО	Bolivia	GD	Grenada	LC	Saint Lucia	PL	Poland
BR	Brazil	GE	Georgia	LI	Liechtenstein	PM	Saint Pierre and Miguelon
BS	Bahamas	GF	French Guyana	LK	Sri Lanka	PN	Pitcairn Island
BT	Bhutan	GH	Ghana	LR	Liberia	PR	Puerto Rico
BV	Bouvet Island	GI	Gibraltar	LS	Lesotho	PT	Portugal
BW	Botswana	GL	Greenland	LT	Lithuania	PW	Palau
BY	Byelorussia	GM	Gambia	LU	Luxembourg	PY	Paraguay
BZ	Belize	GN	Guinea	LV	Latvia	QA	Qatar
CA	Canada	GP	Guadeloupe (French)	LY	Libya	RE	Reunion (French)
CC	Cocos (Keeling) Islands	GQ	Equatorial Guinea	MA	Morocco	RO	Rumania
CF	Central African Republic	GR	Greece	MC	Monacco	RU	Russian Federation
CG	Congo	GS	S. Georgia & S. Sandwich Islands	MD	Moldova	RW	Rwanda
CH	Switzerland	GT	Guatemala	MG	Madagascar	SA	Saudi Arabia
CI	Ivory Coast	GU	Guam (USA)	MH	Marshall Islands	3/1	Suddi Alubia
CK	Cook Islands	GW	Guinea Bissau	MK	Macedonia		
CL	Chile	GY	Guyana	ML	Mali		
CM	Cameroon	HK	Hong Kong	MM	Myanmar		
CN	China	НМ	Heard and McDonald	MN	Mongolia		
CO	Columbia		Islands	MO	Macao		
CR	Costa Rica	HN	Honduras	MP	Northern Mariana Islands		
CS	Former Czechoslovakia	HR	Croatia	MQ	Martinique (French)		
CU	Cuba	HT	Haiti	MR	Mauretania		
CO	Cubu			IVIIV	madictailla		

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