



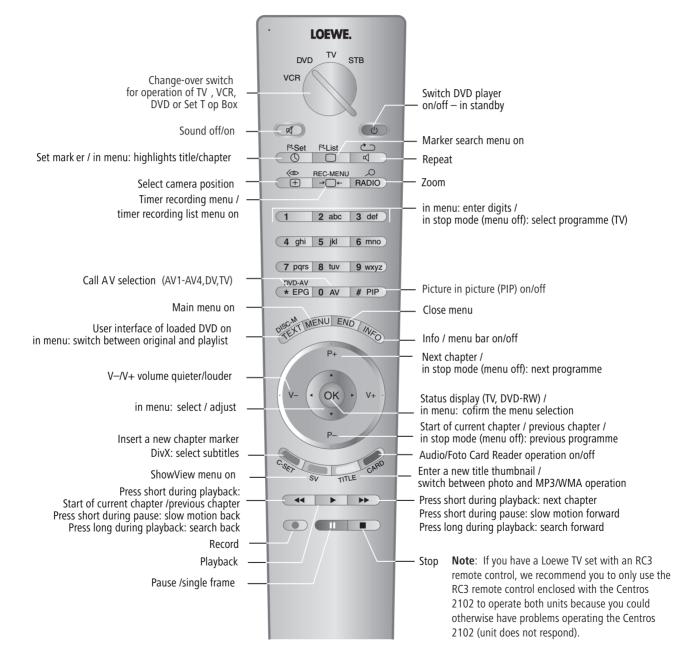


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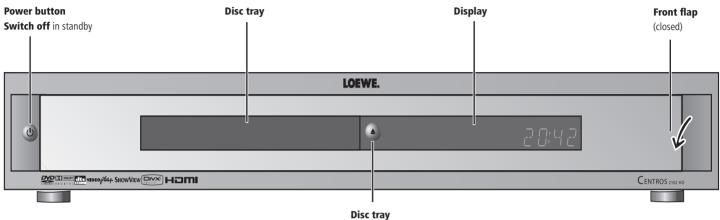
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## **Remote control RC3 – DVD operation**

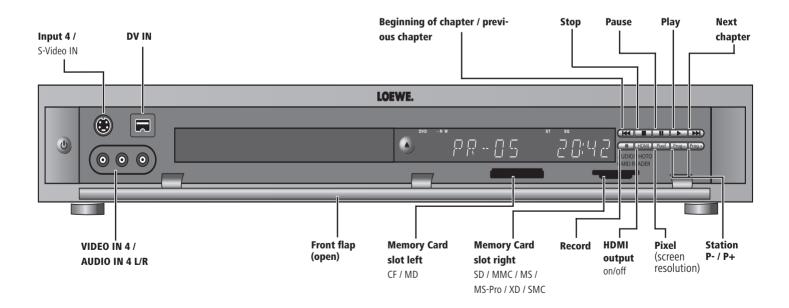


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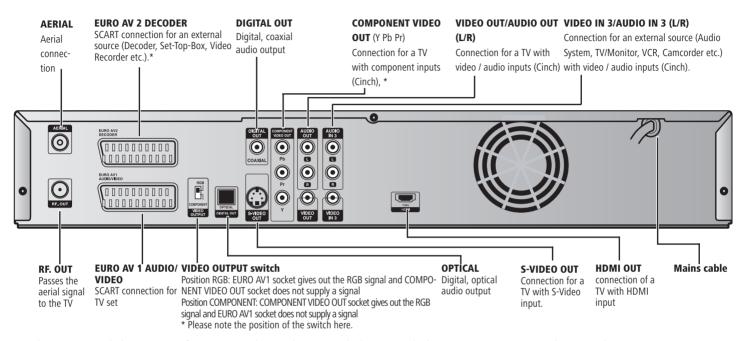
## **Centros Front Panel**



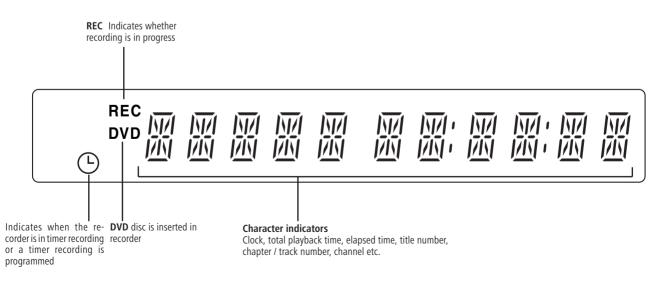
open/close



## **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.



## 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
- HDMI 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 is the case, do not position the unit in the direct vicinity of a TV set, 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.

## 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.



 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). When you use the HDMI connection the TV switches over to this input automatically as long as it supports this function.

If you want to make timer recordings from the satellite tuner in the television, the recording is controlled by **Digital Link Plus**.

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).

## **Essential Information**

### 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.



#### DVD+R DL (Digital Versatile Disk + Recordable; Double Layer)

These discs can be written once. The storage capacity of 8.5 GB is almost double that of single-layer DVDs. The disk dVD+R DL can no longer be written or changed once it has been finalised.

### 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.)

Video-DVD

Audio-DVD

### **Playable Discs**

Recordable ReWritable Video-CD (VCD, XVCD, SVCD, XSCVD; 8 cm- / 12 cm disk)

Audio-CD (8 cm- / 12 cm disk)

CD-R/RW (8 cm- / 12 cm disk)

DVD-R/DVD-RW disks, DVD+R/DVD+RW disks, CD-R/CD-RW disks with audio titles, DivX, MP3/WMA\* or JPEG files, VCD/XVCD/SVCD/SXVCD and Kodak Picture-CDs (JPEG) can also be played on this unit. \* 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 country 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.

### **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 $\odot$ symbol on the screen

During operation " $\bigcirc$ " 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 Video mode				
VR	DVD-RW disc with VR mode			
+R	DVD+R disc			
+RW	DVD+RW disc			
DVD-V	DVD-Video disc			
DVD-A	DVD-Audio disc			
VCD	Video CD			
CD	Audio CD			
DivX	DivX files			
MP3	MP3 files			
WMA	WMA files			
JPEG	JPEG files			

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.

## **Essential Information**

### What are "Recording Modes"?

This recorder offers three recording modes: VR mode, Video mode and Data mode. Recordings on DVD-R discs are always in Video mode. Recordings on DVD-RW discs can be in either VR or Video mode. Files of memory cards, e.g. MP3 can be recorded on discs in Data 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 49 and 50).

### **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 / +R DL 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 / +R DL 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 seven different types of DVD disc:

- DVD-Video disc
- DVD-Audio disc
- DVD-RW disc
- DVD-R- disc
- DVD+RW disc
- DVD+R- disc
- DVD+R DL- 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- or Data format through subsequent reformatting ("Disc -→ Formatting" in the main menu) (Caution! The contents of the disc will be erased).

## **Essential Information**

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.

#### **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 remaining 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 longer.
- 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	Video Recording format (Default)	VR mode	Playback, recording, original/playlist editing
	Video format	Video mode	Playback, limited recording, limited editing
	Data disk	Data mode	Recording of MP3/WMA, JPG, DivX files
DVD-R	Video format	Video mode	Playback, limited recording, limited editing
	Data disk	Data mode	Recording of MP3/WMA, JPG, DivX files
DVD+RW	Video format	Video mode	Playback, limited recording, editing of titles/chapters
	Data disk	Data mode	Recording of MP3/WMA, JPG, DivX files
DVD+R / +R DL	Video format	Video mode	Playback, limited recording, limited editing of titles/chapters

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

### **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.



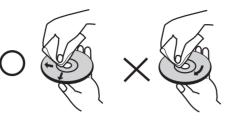


### **Storing Discs**

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:

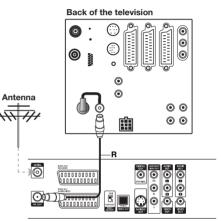
- Depending on your television set and the other units you want to connect, there are several ways of connecting your recorder to your TV set. Only use the connection methods described below.
- Refer as necessary to the manuals for your television, DVD recorder, stereo system and other units in order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

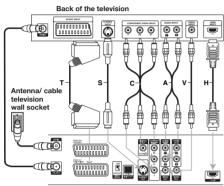
Remove the existing aerial cable plug (for terrestrial or cable televisions) from the television and plug it into the aerial socket on the back of the DVD recorder ("AERIAL" socket). Plug one end of the supplied aerial cable into the TV socket on the DVD recorder ("RF. OUT") and the other end into the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



Back of the DVD recorder

# 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)**. Move the VIDEO OUTPUT switch to the "RGB" position.

### HDMI-Verbindung (z.B. Loewe TV)

Verbinden Sie die HDMI-Buchse des DVD-Recorders mit Hilfe des mitgelieferten HDMI-Kabels **(H)** mit der entsprechenden Eingangsbuchse am TV-Gerät bzw. Monitor. Nehmen Sie dann die erforderlichen Einstellungen wie auf Seite 30 beschrieben vor.

### **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 (available in specialised trade) **(C)**. Move the VIDEO OUTPUT switch to the "COMPONENT" position.

### **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)**.

### **Digital Audio output**

If you have a digital surround amplifier, you should connect this to the DVD recorder via Digital Audio. To do this, connect the DIGITAL-OUT socket of the DVD recorder to the DIGITAL-IN socket of the surround amplifier.

**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.

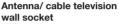
### **Connecting to a Set Top Box** / Satellite Receiver

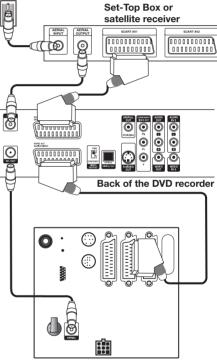
If you use a cable or satellite receiver with integrated decoder, connect it to your recorder and television set as described below. If you use a separate decoder box for your cable/satellite television, follow the instructions in the next section "Connecting to an External Decoder Box".

- 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.
- 3. 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. The function enables you to record a TV program from the integrated analog terrestrial TV tuner of this recorder while watching a satellite or Set-Top Box channel (see Decoder on AV1/2 on page 21/25).

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





Back of the television

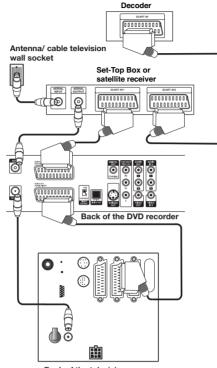
# Connecting to an External Decoder Box

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

- 1. Connect your aerial socket in the wall to the aerial input socket on your Set Top Box / satellite receiver using an aerial cable.
- 2. 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.
- 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.
- 4. 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 the recorder but as shown in the figure below to the satellite/Set-Top Box.
- 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.



Back of the television

### **Connecting to an Amplifier**

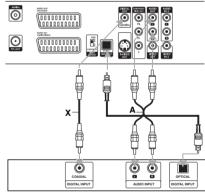
### Connecting to an amplifier equipped with analog 2 channel stereo or Dolby Pro Logic II / Pro Logic

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 - available in specialised trade).
- 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.

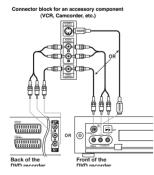
#### Notes:

- If the audio format of the digital output does not 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 (AV2, 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.

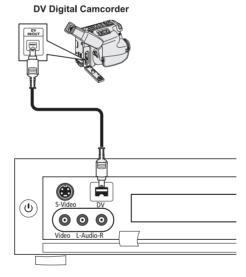
**Note**: If you use the S-VIDEO IN socket on the front panel, the VIDEO IN socket on the front panel cannot be used.



### 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 47 and 48). It is not compatible with digital satellite tuners or S-VHS video decks.



### **Basic Settings**



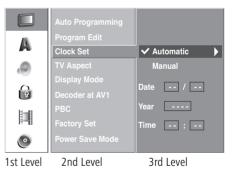
Set the rotating switch on the remote contol to DVD mode.

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 (a, b, b), only the first and second levels of the menu system are displayed on the screen. You can display the third level by pressing "  $\blacktriangleright$ ". When navigating in the menus, "  $\blacktriangleright$ " on the right side of the menu tab shows you that the next level can be called up.

### Main Menu:



### **Navigating in Menus**

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



The arrows correspond to " $\checkmark \lor \lor \lor$ " 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  $\checkmark$  /  $\checkmark$  .
- 3. The desired entry is selected. Press ► to call up the corresponding second level.
- 4. Select the second option with  $\checkmark$  /  $\checkmark$  .
- 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 seven centros for > 3 secs. "FRONT" appears briefly in the Centros display.

### **Activating Progressive Scan**

With the "Progressive Scan" you get the highest possible picture quality without flickering in the "Component Video" mode (VIDEO OUTPUT switch on the back of Centros set to "COMPONENT") in display units which support this operating mode. If Centros is switched on: Press the PIXEL button on the device short. "576P" appears in the unit display, Centros is switched to Progressive Scan. By pressing the PIXEL button on the unit again, you can switch Centros back to the "Interlaced" mode (unit display shows "576 I").

### **The General Menu**

### **Automatic Programming**

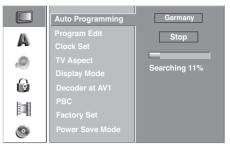
This DVD recorder is fitted with a tuner capable of receiving up to 88 channels.

**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  $\checkmark$  /  $\checkmark$ .
- 3. Press ► to call up the second level.
- 4. Select the "Auto Programming" option with  $\checkmark$  /  $\checkmark$  .
- 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.

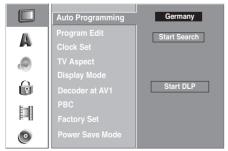
### Preparation

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.

**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.

### Transfer program list

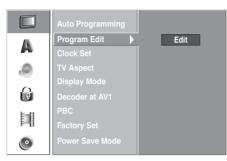
- 1. Press MENU. The menu is displayed.
- 2. Select the "General" option with  $\checkmark$  /  $\checkmark$  .
- 3. Press > to call up the second level.
- 4. Select the "Auto Programming" option with  $\checkmark$  /  $\checkmark$  .
- 5. Press to call up the third level. The country option is highlighted.



 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 2172). 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  $\blacktriangle$  /  $\checkmark$  .
- 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..

	PR	Ch.	MFT	Station	
137		C 12		ARD	E C
PR-01 Decoder NICAM					

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
Station Rename
Move
Delete
Decoder on/off
NICAM auto/off

**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")

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

### **Program edit**

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.



▲ /  $\checkmark$  (up/down): Changes the settings of the current cursor position.

**PR**: Indicates the programm number (display only)

Seek: Automatically searches for station. Use ◀ / ▶ to select the "Seek" option and then press

 $\checkmark$  /  $\checkmark$  . Searching stops when the DVD recorder receives a station.

Channel: Changes the channel number. Use ◀ / ▶ to select the "Channel" option and then press ▲ / ▼ .

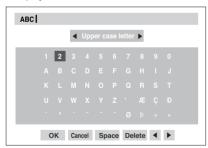
PAL/SECAM (with Centros 2172): Changes the receiver standard. If there is interference with the image, use ◀ / ► to select the "PAL/SE-CAM" option and then use ▲ / ← to select "SECAM" for the SECAM-L standard.

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

### **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.



- 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.

### **Deleting a programme**

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

### **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.

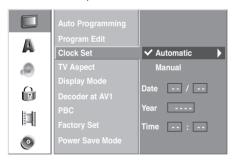
### **NICAM** auto/off

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.

### 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  $\checkmark$  /  $\checkmark$ .
- 3. Press  $\blacktriangleright$  to call up the second level.
- 4. Select the "Clock" option with  $\checkmark$  /  $\checkmark$  .
- 5. Press **>** to call up the third level.

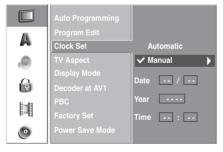
7. Press MENU, to quit the menu.

**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.

- 1. Follow steps 1 5 as described above (Automatic Clock Setting).



- 3. Then enter the necessary date and time information.
  - $\checkmark$  /  $\blacktriangleright$  (left/right): Moves the cursor to the previous or next column/line.

▲ / - (up/down): Changes the setting at the current cursor position.

4. 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.



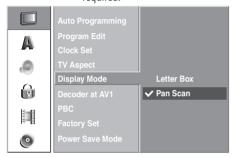
### Screen Mode

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

- Letter Box:

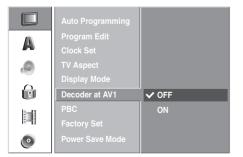
- Pan Scan:

- Widescreen format recordings appear with black borders at the top and bottom of the screen. The picture fills the whole screen
- but cuts off areas at either side that do not fit on the screen if required.



### Decoder at AV1

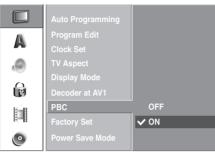
We have already described how to connect a decoder on page 15. If you also want to use an analog decoder for you TV set (programs to be decoded are sent via the DVD recorder to the decoder) you must set "Decoder at AV1" to "On". If it is set to "Off" the decoder is only available to the DVD recorder.



### **Playback Control - PBC**

### VCD, SVCD

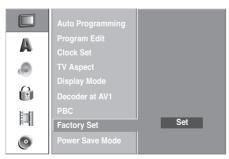
If a VCD (or SVCD) contains playback control (PBC) features and if "PBC" in the menu is set to "On", then the disc playback is controlled via the menu contained on the disc. Otherwise the VCD is played in the same way as an audio CD.



### **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).



### Power saving mode

You can set the recorder so that it consumes < 1 Watt on standby. In the "On" position the VPS Timer, the decoder signal transmission from AV2 to AV1 and "Digital Link Plus" is switched off (no recording from the TV possible).

### Language Menu

### Menu Language

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

	Display Menu	✓ English
A		Deutsch Français
0		Italiano
		Español Nederlands
۲		

### **Disc Languages**

- Others:

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.
  - 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 65. 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



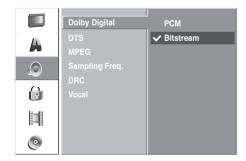
Each DVD disc offers a variety of audio formats. Set the audio format for the recorder according to the type of audio system you are using.

### Dolby Digital / DTS / MPEG

**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.

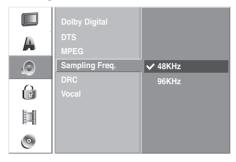
**Bitstream**: Select "Bitstream" if you have a Dolby Digital decoder (or amplifier, a Loewe TV with AC3 or DIS module or another unit with Dolby Digital decoder) connected to the DIGITAL OUT socket of the DVD recorder.

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



### **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.



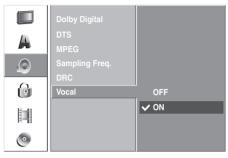
### Night Mode

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".

	Dolby Digital	
A	DTS	
Ø	Sampling Freq.	
	DDO	
ß	DRC Vocal	✓ OFF ON
		OFF ON

### 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



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.

### Password

Changing the 4-digit code



- 1. Press MENU. The menu is displayed.
- 2. Select the lock option with  $\checkmark$  /  $\checkmark$  .

- 3. The lock entry is selected. Press ► to call up the second level.
- 4. Select the "Password" option with  $\checkmark$  /  $\checkmark$ .

5. Press > to call up the third level.

### 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 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.

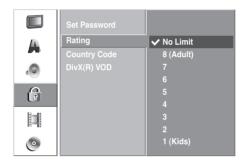
- 1. Press MENU. The main menu is displayed.
- 2. Select the lock option with  $\checkmark$  /  $\checkmark$  .
- 3. The lock entry is selected. Press to call up the second level.
- 4. Select the "Password" option with  $\checkmark$  /  $\checkmark$  .
- 5. Press ► to call up the third level.
- 6. Select 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 "OK" and press **OK**. The 4-digit password is deleted. Enter a new code as shown left.

### Rating



- 1. Follow steps 1 3 as described in "Password".
- 2. Select the "Rating" option with  $\checkmark$  /  $\checkmark$  .

3. Press > to call up the third level.

- 4. Follow step 6 as described left (see "Password").
- 5. Select a protection level between 1 and 8 using the ▲ / ▼ keys. "1" has the most playback limitations. "8" has the least playback limitations. No Limits: If you select "No Limits" the child 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 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 66.) For Great Britain select **"**G B".

	Set Password	
A	Rating Country Code	¢D E
0	DivX(R) VOD	
6		
٢		

1. Press MENU

The MENU menu is displayed.

- 2. Select the "Lock" option with  $\checkmark$  /  $\checkmark$  .
- 3. The "Lock" entry is selected. Press ► to call up the second level.
- 4. Select the "Country Code" option with  $\checkmark$  /  $\checkmark$ .
- 5. Press ► to call up the third level.
- 6. 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  $\checkmark$  /  $\checkmark$  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.

### **DivX registration code**

#### DivX

You receive the DivX® VOD (Video On Demand) registration identification for hiring and purchasing films through the DivX® VOD-Service. Further information is available under www.divx.com/vod.

- **1.**Select "DivX(R) VOD" and press ▶.
- 2.Select "Code" and press **OK**. Then the "registration code" for your unit is displayed.



3. Your can hire or purchase films with this registration code through the DivX® VOD-Service under www.divx.com/vod.

See the instructions for saving the films on a disc for playing on this unit.

**Note**: All films bought from DivX® VOD can only be played on this unit.

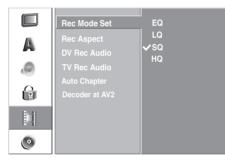
### **Recording Menu**

### **Recording Quality**

You can set the picture quality for recording: **DVD+/-R/RW (4,7GB):** 2 hours (SQ mode), 4 hours (LQ mode), 6 hours (EQ mode)

### DVD+R DL (8,5GB):

Approx. 3 hours (HQ mode) 3:40 hours (SQ mode), 7:10 hours (LQ mode), 10:30 hours (EQ mode)



1. Press MENU

The menu is displayed.

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



### **Recording Format**

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



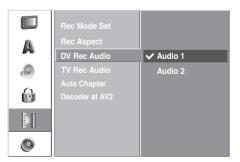
### **DV** Audio

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.

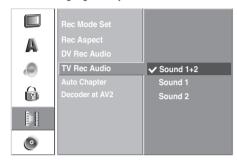
On the Audio 1 setting the original sound is recorded.

On Audio 2 setting the edited sound is used.



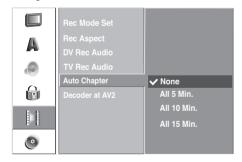
### **TV Audio**

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.



### **Decoder at AV2**

If you want to use an analog decoder at AV2, you have to set "Decoder at AV2" to "On" (see also "Decoder at AV1" on page 21). If you want to use the AV2 socket as a normal AV interface, set "Decoder at AV2" to "Off".

### Disc Menu

### Formatting

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

0

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

*DVD-RW:* The recorder initializes the disc in "Video Mode", "VR Mode" or as a "Data Disc". DVD+R +R DL: The recorder formats the disc in Video mode.

*DVD*+*RW*: The recorder initializes the disc in "Video Mode" or as a "Data Disc".

A DVD+RW or DVD-RW disc can also be initialized later by menu:



- 1. Press MENU. The menu is displayed.
- 2. Select the "Disc" option with  $\checkmark$  /  $\checkmark$ .
- 3. The "Disc" entry is selected. Press ► to call up the second level.
- 4. Select the "Formatting" option with  $\checkmark$  /  $\checkmark$ .
- 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 formatting (VR mode or Video mode) with ◀ / ► and then press **OK**.



#### 8. Use ◀ / ► to select "Ok", and press OK.

9. The following prompt appears:

Disc Format	
All Data on the disc	will be deleted.
ОК	Cancel

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

10. 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  $\checkmark$  /  $\checkmark$ .
- 3. Press ► to call up the third level. "Finalization" is highlighted.
- 4. Press OK. The "Finalization" menu is displayed.

Finalise			
Do you w	ant to fina	lise?	
11	Ok	Cancel	

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.



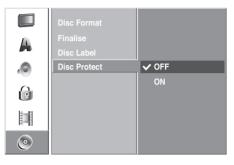
- 1. Follow steps 1 3 described on page 25 (Formatting).
- 2. Select the "Disc Name" option with  $\checkmark$  /  $\checkmark$ .
- 3. Press ► to call up the third level. The "Edit" symbol is highlighted.
- 4. Press OK. The "Keyboard" menu is displayed.



- 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.

### **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**

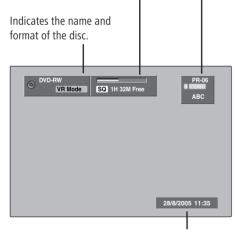
This manual contains basic instructions for operating the DVD recorder. Some DVDs require specific handling or only permit limited operation during playback. If this is the case the  $\bigcirc$  symbol appears on the screen. This indicates that certain operations are not permitted at certain points or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

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

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

### **Temporarily Visible Symbols**



Resume play from this point



Action prohibited or not available

### Notes:

- 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.

### Display of disc Information during playback with 🕞 on the Screen



2x Mro	Menu Options		Function (Use $\checkmark$ / $\checkmark$ to select the desired option)	Selection Methods
	Title		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 chap- ters 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.	✓ / ► or numbers, OK
	Audio	1. ENG ► DCI D 5.1CH	Indicates the current film language and the current audio format and changes these settings.	◀ / ▶
	Subtitles		Indicates the current subtitle language and changes the settings.	◀ / ▶
	Camera	1/3 ►	Indicates the current selected camera position / total number of cameras and changes the camera position.	◀ / ►
	Sound		Indicates the current audio mode and changes the settings.	◀ / ▶
VCD, SC	IVCD	Indicates	the elapsed time and the total time. Indicates the ratio between remaining playing time.	elapsed playing time and
1x 1x	Indicates the cu number and the tot of tracks or the F	al number 🛛 🛱 <b>Tr</b>	ack : 1/17 0:06:32 / 1:00:00	Indicates the current driv mode.
2x INFO	Menu Options		Function (Use 🔺 / 👻 to select the desired option)	Selection Methods
Ű	Track	€ 1/4 ►	Indicates the current track number / total number of tracks and skips to the desired track number or indicates that the PBC mode is active, if it is	✓ / ➤ or numbers, OK

		the desired track number or indicates that the PBC mode is active, if it is set to "On" in the main menu.	numbers, <b>OK</b>
Time	0:10:30	0:10:30 Indicates the elapsed playback time and forwards the film to the desired point.	
Audio	STEREO ►	Indicates the audio format and changes the settings.	◀ / ▶
Sound	▲ NORMAL ►	Indicates the current film language and the current audio format and changes these settings.	◀ / ▶

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#### Displayi of disc Information during playback with point on the Screen (Continued)



Menu Options		Function (Use $\checkmark$ / $\checkmark$ to select the desired option)	Selection Methods	
Title		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 chap- ters 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.	◀ / ► or numbers, OK	
Audio	1. STEREO DO D 2CH	Indicates the current film language and the current audio format and changes these settings.	◀ / ▶	
Subtitles	GRC ≺ OFF ►	Indicates the current subtitle language and changes the settings.	< / ▶	
Sound		Indicates the current audio mode and changes the settings.	◀ / ▶	

## **HDMI mode**

### **HDMI (DVI) connection**



The HDMI connection (High Definiton Multimedia Interface) allows digital picture and sound transmission via a connecting cable, e.g. to

Loewe Flat TV sets. The digital picture and sound data are transmitted without data compression and therefore lose none of their quality. In the equipment connected, no analogue/digital conversion is necessary, which might also have lead to losses in quality.

DVI signals can be also be reproduced by the HDMI connection using a DVI/HDMI adapter cable. This is possible because HDMI is based on DVI and is downwardly compatible. That means that the digital video signals are transmitted via HDMI - no audio signals are transmitted, though. In addition, both use the same copy protection method HDCP. (High Definition Content Protection).

- 1. Switch the TV set or monitor with HDMI connection and the recorder off.
- Connect the DVD recorder to a TV set or monitor with HDMI connection as described on page 14.
- **3.** Then switch on the TV set or monitor, wait 30 seconds and then switch on the recorder.
- Log in the HDMI connection in the TV set's connection wizard (see TV set user guide).
- 5.If transmission takes place on a DVI/HDMI adapter cable, connect the analogue or digital audio outputs of Centros to the appropriate inputs of the TV set as described on page 15/16.
- **6.**Leave the existing SCART connection as it is to record from the TV.

### **HDMI operation**

- 1. Switch over the TV set to the HDMI AV input (happens automatically in connection with a Loewe Flat TV set).
- 2. Press the **HDMI** button on the front of Centros to switch over to digital video output.
- 3. Set the desired resolution on the front of Centros with the Pixel button. Press the Pixel button repeatedly to set the desired picture resolution (e.g. 576i, 576p, 720p, 1080i). Note: You can only set resolutions within the scope of your TV's capabilities. Select resolution 720p on Centros for optimum picture quality.
- **4.** Press at Centros to open the disk drawer.
- 5. Load the selected disk in the drawer with the side to be played facing down.
- **6.** Press at Centros  $\triangleq$  to close the disk drawer.
- Playing starts either automatically or by pressing provide in the menu depending on the medium.

#### Notes:

- 1. The other sockets (VIDEO OUT, S-Video and Component Video) have no function during the HDMI mode.
- 2. With an HDMI connection the audio scanning frequency is only 48 kHz, even when selecting 96 kHz.
- 3. This recorder performs no internal (2-channel) decoding of DTS soundtracks. In order to enjoy DTS multi-channel surround sound, this recorder must be connected by one of the digital audio outputs to a DTS-compatible receiver.
- 4. If the "Dolby Digital" or "MPEG" option has not been set to "PCM" in the Setup menu (see page 22), no sound is output over the HDMI cable.

**5.** The HDMI connection to Centros is operated as a signal output. Please proceed as described on page 47 if you want to record from an external signal source with Centros.

# 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 Centros 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 Centros to close the disc drawer.
- 4. 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).
- 2. 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-V Video VR DivX

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

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

### Selecting a different CHAPTER or TRACK



#### DVD-V Video VR VCD DivX

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  $\land / \checkmark$  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  $\checkmark / \succ$  to select it. When **OK** is pressed, the chapter will play.

### Searching

DVD-V DCVD-A Video VR VCD DivX

- toggles between x2, x4, x8, x16, x100 (backwards) or
- **>>>** x2, x4, x8, x16, x100 (forwards). With a video CD, the search speed changes as follows: x2, x4, x8.

2. You can leave Search mode by pressing

## Freeze-frame and Picture For Picture playback

DVD-V Video VR VCD DivX

During playback, press

The recorder now switches to PAUSE mode.

- 1. You can page backwards and forwards between images by pressing ◀ / ► repeatedly.
- 2. You can leave PAUSE mode by pressing \_\_\_\_\_.

**Notes**: The picture by picture scroll back is not supported by Video-CDs and in DivX. You can page forward through images by pressing **11** on the remote control.

### **Slow motion**

DVD-V Video VR VCD DivX

- 1. During playback, press
- 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:

▶ 1/8, 1/4 or 1/2 (forwards(DivX).

4. You can leave Slow Motion mode by pressing

**Note**: Video-CD and DivX mode do not support reverse slow motion playback.

### Repeating



### DVD-V Video VR VCD

#### **DVD discs** - Repeating chapter/title/OFF

Press do 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/DivX repeat track/all/OFF

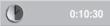
Press to select the repeat mode that you want.

- Track: repeats the current track.
- All: Repeats all tracks on the disk or in the folder (DivX).
- 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-V DVD-A Video VR DivX

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.
- 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  $\checkmark$  /  $\succ$  to move the cursor (\_) to the incorrect figure. Input the correct numbers.

4. Press **OK** within 20 seconds to confirm the start time. Playback will start at the time selected.

### Zoom

### DVD-V Video VR VCD

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

- 1. During playback 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-V 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:

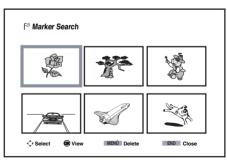
- 2. Repeat step 1 to set up to six markers on a disc.

### 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.

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

**Note**: The marks are only saved until the disc is changed.

#### **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-V

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

#### Disc menu

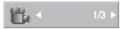
#### DVD

1. Press TEXT.

The disc menu is displayed.

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

#### **Camera positions**



#### DVD-V

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

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



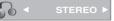
#### DVD-V DVD-A DivX

Here you can select the digital sound format in connection with the film language. To do this, press 2x during playback and use  $4 / \mathbf{v}$  to select the "Audio" menu item. Then press

 $\blacktriangleleft$  /  $\blacktriangleright$  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 4 2x during playback and use  $\checkmark$  /  $\checkmark$  to select the "Audio" menu item. Then press  $\triangleleft$  /  $\succ$  to listen to a different audio channel (STEREO, LEFT or RIGHT).

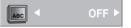
#### **3D surround sound**



*DVD-V DVD-A Video VR VCD DivX* 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 multichannel audio in a home cinema system.

- 1. Press <sup>4</sup> 2x and use ▲ / ▼ to select the "Sound" menu item. Then press ◀ / ▶ during playback to select "3D SUR".
- 2. Select "NORMAL" to switch off the 3D surround sound effect.

### Subtitles



DVD-V Video VR DivX During playback, press ↓ ↓ to select the "Subtitles" menu item. Then press ↓ / ↓ to select the subtitle language on the DVD.

### **DVD-Audio Disks**

DVD-Audio is a new disk format based on the success of the DVD video and also improves the quality and functionality in the audio field. Multichannel audio provides a new music listening experience. The stereo quality surpasses that of Audio-CDs (192kHz in comparison with 44.1 kHz for CDs; 24 Bit Sampling Rate instead of 16 Bit for CDs).

A typical DVD-Audio Disk contains up to seven times the capacity of an Audio-CD. The additional space is used either for multichannel recordings or for longer music recording times. Many DVD-Audio Disks also contain screen texts such as background information about the artist, song lyrics, biographies etc.. Some also contain photo galleries or video clips.

Since the contents of the DVD-Audio Disks differ, various menus and functions described below may not be available.

### Switch title

### 1/2 ↓

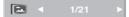
#### DVD-A

Some DVD-Audio Disks divide the contents into different titles. Centros allows you to switch back and forth comfortably between the individual titles with the menu.

- 1. Press woo twice during playback.
- **3.**Then press ◀ / ► or button 0 9 to select a specific title.

**Note:** On some DVD-Audio Disks, the manufacturer has protected certain contents by a password. Enter the password when the icon  $\bigcirc$  appears on the screen (you may find it on the disk sleeve or in the Internet). This password protection is not determined by the DVD recorder but is a function of the disk.

#### Switch chapter



#### DVD-A

Proceed as follows to select one of the contents on a DVD-Audio Disk.

1. Press wice during playback.

**3.**Then press ◀ / ▶ to select a certain chapter.

# Storing the last disc settings

### DVD-V Video VR

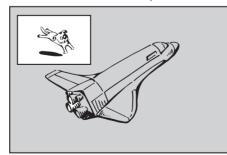
The recorder saves the user settings for the last disc that you have watched. The settings are saved until you remove the disc from the recorder or switch it off.

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

### **PIP (Picture In Picture)**

#### DVD-V 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

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.

# Playing disks with mixed contents

If data disks contain files of different playable formats such as MP3, JPG and DivX, you can switch between the three playback modes "Film", "Music" and "Photo" with the yellow **TITLE** button:

- See the chapter "DivX mode" on page 35 to find out how to use the "Film" mode.
- See the chapter "Audio-CD and MP3/WMA mode" on page 36 for operation of the "Music" mode.
- See the chapter "Photo Disk mode" on page 39 to find out how to use the "Photo" mode.

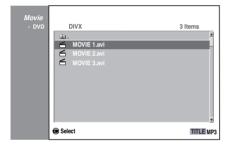
## DivX mode

With this DVD recorder you can play DivX files saved on CD-R/RW or DVD±R/RW media.

**Note:** Before playing DivX files, please read the notes "About DivX Video files" on this page.

### **Playing DivX files**

- 1. Press the button ▲ the unit to open the disk drawer. Load the disk and press again ▲.
- 2. The disk is read in and the DivX menu appears on the screen after a short while.



- Select a file or folder with → → and press OK. The contents of the selected folder are displayed. To return to the master folder from the file list, press → / → on the remote control to select the a...icon and then press OK.
- 4. Select a file with ▲ and press 2x **OK** to play or ▶.
- Press P+ or P- briefly during playback to activate the next file or to return to the beginning of the current file.
- 6. Press **P** twice briefly to return to the previous file.
- 7. To stop playback at any time, press
- If the disk has a mixed contents (MP3/WMA, JPEG and DivX files) you can switch between the modes "Movie", "Music" and "Photo" by pressing the yellow TITLE button.
- 9. Press END, to quit the DivX menu.
- 10.See page 31 onwards for other operating functions.

### **DivX** subtitles

Please proceed as follows if subtitles are not displayed correctly.

1. Set a suitable subtitle language for the DivX subtitles according to the following table.

Disk Subtitle Lan- guage	Available DivX subtitles
Original, English	English
French, German, Ital- ian, Dutch, Spanish, Swedish, Portuguese	French, German, Ital- ian, Dutch, Spanish, Swedish, Portuguese
Russian	Russian
Others 6976	Greek
Others 7665	Polish, Hungarian, Czech
Others 8482	Turkish

- Press "MENU" → "MENU LANGUAGE" → "Disk Subtitles" and select the desired language for subtitles.
- To select the correct character set for the subtitles, press the red button C-SET for 3 seconds during DivX playback and then select the desired character set with < ►.</li>

### **About DivX Video files**

This recorder is compatible with the following DivX formats:

- The maximum picture resolution of the DivX file is less than or equal 720 x 576 (H x V) pixels.
- The filename of the DivX file has a maximum of 47 characters.
- Characters in DivX filenames which cannot be displayed are shown as "\_".
- The unit can not correctly play image refresh rates of > 30 images per second.
- If the sound and picture are out of sync, either the sound or the picture is played.
- This recorder does not support the "GMC" DivX/Xvid function.
- Valid DivX file extensions for videos are: ".avi", ".divx".
- Valid DivX file extensions for subtitles are: ".smi", ".srt", ".sub" (only Micro DVD, Subviewer 1-2 formats), ".txt" (only Micro DVD, T1-4 formats). Other subtitles cannot be displayed.
- Valid DivX Codec formats: "DivX3.xx", "DivX4. xx", "DivX5.xx", "XVID", "3IVX".
- Valid DivX Audio formats: "Dolby Digital" (AC3), "PCM", "MP2", "MP3", "DTS (only at DIGITAL OUT)", "WAV".
- MP3 sampling rates: 8 48 kHz.
- WMA sampling rates: 32 48 kHz.
- MP3 bit rates: 32 320 kbps.
- WMA bit rates: 32 192 kbps.

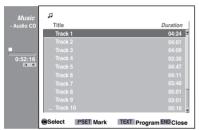
## **Operating the Audio CD and MP3/WMA**

### Playing audio CDs or MP3/WMA discs

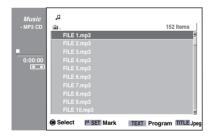
#### CD MP3 WMA

The DVD recorder can be used to play audio CDs. Recordings made in the MP3/WMA format can also be played back on CD-ROM, CD-R or CD-RW discs (before playing MP3/WMA recordings, read the advice on MP3/WMA recordings on page 37).

- 1. Insert the disc and close the drawer. The "Music
- Audio CD" or "Music MP3/WMA 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.) Use the **DISC-M**/ we button to return to the CD menu.

b.) You can switch between the programme list and the original list by pressing (see page 38).

c.) With mixed CDs (Audio tracks, MP3/WMA 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**.

#### **Options in the Music-Audio CD menu** CD

Play Program add

- Play: Starts playing the selected track.
- **Program add:** Adds the selected track to the programme list. (Page 38)

### Options in the Music-MP3/WMA menu

Play
Program add
Folder
Titles only
Сору

#### 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/WMA files on the disc (no folders).
- **Copy**: Copies the selected tracks to the memory card.

#### When a folder is selected:

Open
Program add
Folder
Titles only
Сору

- **Open:** Opens the folder and displays its contents.
- **Program add:** Adds all the tracks in the selected folder to the programme list (see page 38).
- 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/WMA files on the disc (no folders).
- **Copy:** Copies the selected folders to the memory card.

#### Pause

#### CD MP3 WMA

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

### Playing a different TRACK

#### CD MP3 WMA

- 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).

### **Operating the Audio CD and MP3/WMA**

#### Repeat

CD MP3 WMA

Press for the Repeat type that you want. **TRACK**: repeats the current track.

- ALL (CD): repeats all the tracks on the CD.
- FOLDER (MP3/WMA): repeats all the tracks In the current folder.
- OFF: no repeat.

#### Search

#### CD

- 1. During playback, press *or or*. The recorder now switches to Search mode.
- 2. 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/WMA recording

#### About MP3/WMA

- MP3/WMA sampling rates: 8 48 kHz
- MP3 bit rates: 32 320 kbps.
- WMA bit rates: 32 192kbps.
- 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".
- A WMA file (Windows Media Audio) consists of data which have been compressed with the Windows Media Codec.
- The filenames must have the extension "mp3" or ".wma".

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

- 1. The physical format of the CD-R should conform to ISO 9660 and JOLIET.
- If you record MP3/WMA files with software such as "Direct CD", which cannot create a FILE SYS-TEM, you cannot play back MP3/WMA 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/WMA 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/WMA 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.

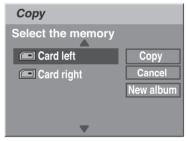
# Copying files / folders from a CD to an audio/photo card

MP3/WMA and photo files can be copied from a CD/DVD 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/DVD and then press OK. In the menu which then opens (if a card is plugged in both slots, select a memory card with ▲ / ▼ first and then.) select the "Copy" item with ▲ / ▼ and press OK.



### 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.

**Note**: When copying from CD/DVD to memory cards, the filenames are abbreviated to 8 characters.

### **Operating the Audio CD and MP3/WMA**

### **Programmed replay**

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/WMA).

- 1. Insert an audio CD or an MP3/WMA 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 ③.

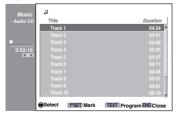
3. Press OK.

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 set button switches between the programme list and the original list).



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 WMA*

 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

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



- **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/WMA 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/WMA): 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 **O** 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

- 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.

### Using the photo disc

### **Playing a photo disc**

#### JPEG

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

1. Insert the disc and close the drawer.

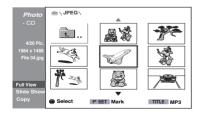
The photo menu (overview) will appear on the screen.



 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 preview picture is displayed in black, this JPEG file cannot be shown.

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

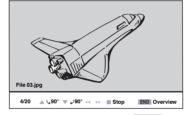


5. The options are displayed in the left half of the menu.

#### Notes:

a.) To go back from the file list to the folder above, press  $\checkmark$  /  $\checkmark$  on the remote control to mark the  $\equiv$  ... symbol, and press **OK**.

c.) With mixed CDs (audio tracks, MP3/WMA and JPEG files), when you are in Stop mode you can switch between the AUDIO CD, MP3/WMA CD and Photo CD menus by repeatedly pressing **TITLE** 



7. Return to the overview using \_\_\_\_\_.

### Accessing images one by one

In the full display, press / 
In the full display, press /

### **Rotating images**

Press  $\checkmark$  /  $\checkmark$  to rotate an image that is being displayed 90° clockwise or anti-clockwise.

### Slide show

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

Slide Show	
Object Speed	All Normal
Start	Cancel

2. Press **OK**.

The "Slide show" menu is displayed.

 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 **1** to stop the slide show and go back to the photo menu.

**Note:** You can use the **O** 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 5 Megapixels (2760x2048 Pixel) 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" extension before they will be burned onto the CD.

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

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

### **Overview**

### About the system

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

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

Movies in DivX format can be played (see page 35). You use the Loewe DVD recorder's remote control to operate the Music/Photo/Movie card reader.

When the memory card is inserted, you can use the **CARD** button to switch to using the Music/ Photo/Movie card reader. Then a list of the pictures, movies or audio files stored on the card appears depending on the content of the memory card.

If there are over 9 images stored, you can use or 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 39).

DivX, MP3/WMA or JPEG files can be copied from a data CD/DVD to a memory card with enough free storage space, so that they can be played on, e.g., portable playback devices (see page 38).

Conversely, you can copy files from a memory card to a data DVD with sufficient disk space.

### Data/memory card compatibility

The images stored on the card must be in the JPEG baseline DCF format. Other formats are not displayed and are shown black in the list. There is a maximum of 5 Megapixels. For further details about JPEG files, refer to page 39.

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

You will find information about the compatibility of movie files on page 35.

The memory card must be formatted in format FAT 12, 16 or 32. Memory cards with other formats cannot be read.

### Formats of the memory cards

Compact Flash (CF) left card slot Micro Drive (MD) left card slot Memory Stick (MS) right card slot right card slot Memory Stick Pro right card slot MultiMediaCard (MMC) right card slot Secure Digital (SD) SmartMedia Card (SMC) right card slot xD-Picture Card (xD) right card slot

To avoid compatibility problems, only use high quality memory cards from brand name manufacturers.

### Maximum memory capacity

Compact Flash (CF)	4 GB
Micro Drive (MD)	5 GB
Memory Stick (MS)	128 MB
Memory Stick Pro	1 GB
MultiMediaCard (MMC)	1 GB
Secure Digital (SD)	1 GB
SmartMedia Card (SMC)	128 MB
xD-Picture Card (xD)	512 MB

#### Notes:

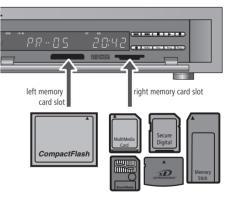
- When activating the audio/photo card reader, the DVD recorder should be idle, with no additional screen displays (no menu or Picture In Picture display).
- Take care with the card's polarity / tag (see

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.
- Only one card at a time may be plugged into the right hand memory card slot.
- Memory cards cannot be formatted by Centros.
- The reading time of the memory card depends on the number of files, the file size or resolution.
- If a folder on the memory card contains more than 645 files, not all the files can be played.
- The card in the right hand slot has priority when cards are inserted in both memory card slots. To activate the card in the left hand memory slot, remove the card from the right hand slot.

# 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:** Carefully withdraw the card.

### **RC3 remote control Music/Photo/Movie card reader functions**

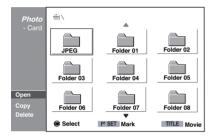


### Photo mode

### **Displaying image files**

Please also read "Notes on JPEG files" on page 39 before playing picture files.

 Press the blue button CARD to switch to memory card operation and then the yellow button TITLE until the menu displays "Photo Card".



2. The rest of the operating functions are identical with those on CD/DVD - see "Photo Disc Operation" on page 39.

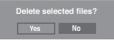
### **Deleting images or folders**

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

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

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

The "Delete" menu is displayed.



3. 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.

### **Movies operation**

### **Playing movies**

Please also read the information "About DivX movie files" on page 35 before playing movie files.

1. Press the blue button **CARD** to switch to memory card operation and then the yellow button **TITLE** until the menu displays "Movie Card".

Movie		
- Card	DIVX	3 Items
	<b>.</b>	<b>A</b>
	MOVIE 1.avi	
	MOVIE 2.avi	
	🖌 MOVIE 3.avi	
		×
	G Select	TITLE MP3
	-	

 The rest of the operating functions are identical with those on CD/DVD - see "DivX mode" on page 31/35.

### **Music mode**

### **Playing music files**

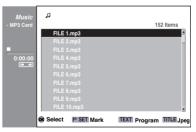
Before playing MP3/WMA recordings, read the notes regarding MP3/WMA recordings on page 37.

1. Press the blue button **CARD** to switch to memory card operation and then the yellow button **TITLE** until the menu displays "Music-MP3 card".

Сору	🛞 Select	F SET Mark	TEXT Program	TITLE Jpe
Delete				v
Program add				
Open				
0:00:00				
	🗅 Folder	2		-
	📁 Folder			<b>A</b>
- MP3 Card	Δ.		2	Items
Music	5			

2. Use ▲ ▼ ◀ ▶ 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 I ♥ 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 ••• in the "Music-MP3

card" menu to switch to the previous/next page. If the contents of the memory card are mixed (DivX files, MP3/WMA and JPEG files) you can switch between the menus "Movie Card", "Music MP3 Card" and "Photo Card" in the Stop mode by pressing the yellow **TITLE** button several times.

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**.

### Options in the Music MP3/WMA card menu

#### When a file is selected:

- Play: Starts playing the selected file.
- **Program add**: Adds files to the programme list (page 37).
- Folder: Displays the disc's folder list.
- **Titles only:** Displays all the MP3/WMA files on the disc (no folders).
- Delete: Deletes the selected file.

#### When a folder is selected:

- Open: Displays a subfolder and all MP3 files in this folder.
- Program add: Adds all the files in the folder to the list. (see page 38)
- Folder: Displays the disc's folder list if "Title only" had previously been chosen to display only the files.
- Titles only: Displays all the MP3/WMA files on the disc (no folders).
- **Delete**: Deletes the selected folder and its contents.
- Copy: Copy data to DVD.

### 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.

### **Copying data to DVD**

The files that can be played by Centros can be copied from a memory card in the Audio/Photo/ Movie Card Reader to a writable DVD in the "Data Disc" format (see "Initialisation" on page 25) or to a memory card in the second memory slot. This is useful for example for archiving the files on memory cards.

- Select with ▲ / ▼ a file / a folder on the memory card and press OK. Mark several files/folders with <sup>①</sup>. Select the "Copy" item in the menu that opens with ▲ / ▼ and press OK.
- 2. The "Copy" menu appears.



- 3.With ▲ / ▼ you can first "select the memory" if necessary and then press OK.
   With ▲ / ▼ you can "select the album" if necessary and then press OK.
- 4. Select with ► "Copy" and press OK. The selected files / folders are copied into the selected album on the DVD/card.

You return to the start menu with "Cancel". With "New album" a new folder is created first on the target medium. You can then copy the selected files / folders to this.

### **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.

- 1. Switch the recorder on and insert a writable disc. If you insert an empty disc, the recorder will initialise it automatically first (see page 25).
- 2. Set the recording quality if necessary (see page 24).
- Switch the recorder input to the signal source you wish to record from with the numeric buttons, the buttons P+ / P- or the button DVD-AV/ I or 0 AV.

The program number, name and current sound status are displayed on the screen.

- Select the audio channel for two language TV recordings in the sub-menu "Recording - TV sound" of the menu (see page 25).
- This recorder can also record NICAM. If the NICAM setting is set (see page 20) to Auto, Audio is automatically changed to NICAM as soon as a NICAM broadcast is transmitted. If the NICAM sound is distorted due to poor reception, you can switch off the program's NICAM setting.
- 4. Press once.

Recording will begin. (The **REC** display comes on in the DVD recorder's display window.)

5. 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 Record-ing".

### Stopping the recording

- 1. Press **u** 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.

### Continue 65Min free

"Immediate Timer Recording" message.

### 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

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 complete recording will be lost.

### **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  $\rightarrow \Box \leftarrow$ 

The "Timer Recording" menu is displayed.

Timer-	Record	1			50 196	Min. Free
PR	Date	Start Time	Length	Mode	Repeat	VPS/ PDC
02	9/5 Tu	19:20			Once	
C7 BBC						
Enter		REC-MENU T	mer Record	List	END	Close

- 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).
- The energy saving function of Centros must be switched off (see page 21).

2. 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.
- $\rightarrow \square \leftarrow$  opens the timer recording list.
- 3. 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 o to switch the unit to standby.

#### Notes:

- The timer icon 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!

# 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.
  - ◀ / ▶ (left/right) select the input fields.
  - If you make a wrong input, press repeatedly MENU before you press OK 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 →→ twice. The "Timer recording list" menu is displayed.

Time	r Rec	ord List					
	Date	Start Time	Length	Mode	VPS/ PDC	Check	
	10/4 Di	19:20	30M			Rec. OK	
5	10/4 Di	20:15	45M	HQ	Off	Rec. OK	
Edit	MENU	Delete	REC-MEN	U Timer	Record	END Close	_

### Edit a timer program

- 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  $\land$  /  $\checkmark$  to select the entry in the timer recording list that you want to delete. If you wish to delete the recording, press MENU.

### **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.

### **ShowView**<sup>®</sup>

ShowView is a registered trademarks of Gemstar Development Corporation.

The ShowView System is manufactured under license from Gemstar Development Corporation.

# **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.

- 1. 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 or AV 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.
- 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 44.

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.

### **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.
- 1. 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.

- You can pause or stop the recording by pressing 
   or 
   You cannot use the DVD recorder to control the camcorder while recording is in progress.
- 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.

### The "Title List-Original" Menu VR

The playlist (see page 50) 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  $\checkmark$  /  $\checkmark$  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.

• Play: Starts playing the selected title.

Play	
Chapter List	
Delete	
Protect	
Edit >	Rename
Edit > Playlists >	Rename Delete Part

- **Chapter List**: Changes to the "Chapter List-Original List" for the selected title.
- **Delete**: Deletes the selected title (see page 51).
- **Protect**: Prevents inadvertent changing or deleting of a title (see page 58).
- 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 56).
  - \* **Redo**: Redoes the undo action (see page 56).
- **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 woo to display more detailed information about the selected title.

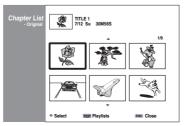
### The "Chapter List-Original" Menu VR

- 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  $\land$  /  $\checkmark$  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.



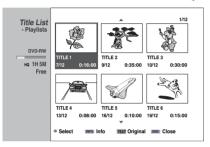
- Play: Starts playing the selected chapter.
- Title list: Changes to the "Title List-Original" menu (see left side of this page).
- **Delete**: Deletes the selected chapter (see page 55).
- **Combine**: Combines two chapters into one (see page 57).
- **Playlists**: Adds the selected chapter to the end of a playlist of your choice (see page 54).
- 6. Press **END** repeatedly to quit the "Chapter List-Original" menu.

### 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.

  - 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.



- 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 55).
- Rename: Enables renaming of the selected playlist (see page 57).
- **Delete part**: Deletes a part of the selected playlist (see page 56).

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

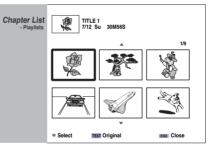
### Note:

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.
- 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.

- - 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 55).
  - Combine: Combines two chapters into one (see page 57).
  - Move: Moves the selected chapter to another desired position in the playlist (see page 57).



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

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### 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**/ **T** to display the Title List.

Title List		1/12
	Title	Date Duration
DVD-RW	TITLE1	12/11 0:20:15
so 1H 5M	TITLE2	14/11 0:43:30
Free	TITLE3	18/11 0:33:00
	TITLE4	20/11 0:10:00
	TITLE5	23/11 0:15:00
	TITLE6	25/11 0:17:00
	· Select INFO Info	END Close

- 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 57)
  Delete: Deletes the selected title from the
- **Delete**: Deletes the selected title from the title list.
- 4. Press **END** repeatedly to quit the "Title List" menu.

**Note**: Press would be 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.
- 2. Use ▲ ▼ ◀ ▶ to select the title you want to delete and press **OK**.

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

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:

D:	New		it Page / Total Num	ber of Pages
DISC	: Nam	ie I Title Da	112	
	0	DVD-RW		 1/2
	1	TITLE 1	12/11 0:30:21	* PAGE UP
		TITLE 2	14/11 0:20:08	* PAGE DOWN
			18/11 1:10:03	
			20/11 0:43:21	
			23/11 0:15:21	
	6	TITLE 6	25/11 1:13:21	EXIT

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

You can quit this menu using EXIT.

Press **OK** or **ID** to play the selected title.

### The "Title List" Menu

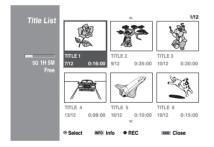
VR + RW

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  $\checkmark$  /  $\checkmark$  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.



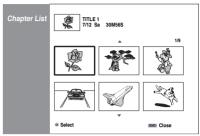
- **Play**: Starts playing the selected title without hidden chapters.
- **Play all**: Starts playing the selected title including the hidden chapters.
- Chapter list: Changes to the "Chapter List" menu for the selected title.
- **Delete**: Deletes the selected title (see page 55).
- **Protect**: Prevents inadvertent overwriting, changing or deleting of a title (see page 58).
- Edit: Contains the following editing options:
  - \* **Rename**: Edits the title name (see page 57).
  - \* **Divide**: Divides a title in two parts (see page 58).
  - \* **Hide**: Hides/Shows all chapters within the title (see page 58).
- 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.



- To display the chapter list options, select the desired chapter and press OK. The options are displayed on the left side of the menu.



- 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 57).
- **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 58).
- 6. Press **END** repeatedly to quit the "Chapter List" menu.

menu.

## **The "Title List" Menu**

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**/ **CEVE** to open the "Title List" menu.

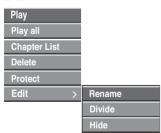
With more than 6 titles use  $\checkmark$  /  $\checkmark$  to display the previous/next page.

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.



- **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 55).
- Protect: Prevents inadvertent overwriting, changing or deleting of a title (see page 58).
- Edit: Contains the following editing options:
  - \* **Rename**: Edits the title name (see page 57).
- \* **Divide**: Divides a title in two parts (see page 58).
- \* **Hide**: Hides/Shows all chapters within the title (see page 58).

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.

The "Chapter List" menu is displayed.



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

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



- 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 57).
- 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 58)).
- 6. Press **END** repeatedly to quit the "Chapter List" menu.

### **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

Chapter

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).

2. 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

Thumbnail

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 56).

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**/ **T** 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 49.

 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.

Play	
Chapter List	Play
Delete	Title List
Protect	Delete
Edit >	Combine
Playlists >	Playlists >

Title List-Original

Chapter List-Original

3. Use  $\checkmark$  /  $\checkmark$  to select "Playlists", and press **OK**.



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**/ **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 49.

2. 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.

Play	
Chapter List	Play
Delete	Title List
Protect	Delete
Edit >	Combine
Playlists >	Playlists >





- Select an existing playlist to add a title or a chapter and press OK. The updated playlist is displayed.
- 4. Repeat steps 1-4 to add additional titles or chapters to a playlist.

5. Select **END** to quit or **DISC-M**/**CEP** to return to the "Title List-Original" menu.

### **Deleting a Title/Chapter**

### VR

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.

- 1. 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.

Play
Chapter List
Delete
Protect
Edit >
Playlists >

3. 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 consecutive titles are deleted they are combined into one "Empty Title".

### **Deleting a Part**

VR +RW

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),
  - slow motion (11 + 44 / >>),
    search (44 / >>) 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.

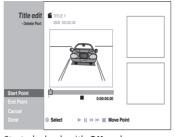
Play	
Chapter List	
Delete	
Protect	Delete
Edit >	Delete Part
Playlists >	Undo
	Redo

Menu options for "Title List-Original"

Play
Chapter List
Delete
Rename
Delete Part

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 (11 + << / >>),
     search (<< / >>).
- 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

- frame-by-frame advance (press repeatedly),
- slow motion (□□ + ●● / ▶●),
- search ( ◀◀ / ▶► ).
- 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**.

Play		
Chapter List		
Delete		Rename
Protect		Delete Part
Edit	>	Undo
Playlists	>	Redo

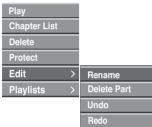
**Notes**: You cannot undo anything once the DVD disc has been removed from the DVD recorder or the recorder has been switched to standby mode. You cannot undo a recording.

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

### **Renaming a Title**

#### VR -RW

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



3. Enter a new name for the title. Use  $\checkmark$   $\checkmark$ 

▶ to select a character and press **OK** to confirm your selection. See step 3 on page 19 (Re-naming a Station).

NAME1									
		<b>∢</b> U	lppe	r cas	se le	tter			
	2								
0	к	Cance	el	Spa	се	Dele	ete	•	►

 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 -RW

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.

Play
Title List
Delete
Combine
Playlists

 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.

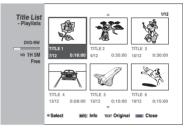
### Moving a Chapter / Playlist

#### VR -RW

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 50.



2. Select a chapter in the "Chapter List-Playlists" menu.

#### 3. Press OK.

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



 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.

### **Protecting a Title**

#### VR -RW

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

1. Press **DISC-M**/ for the "Title List" menu.

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.

- 1. In the "Title List" menu or the "Chapter List" menu select a title or chapter to hide using
  - ▲ ▼ ◀ ▶ and press OK.
- 2. The options appear on the left side of the screen.

#### 3. Select the option "Edit → Hide".

Play	
Play all	
Chapter List	
Delete	Rename
Protect	Divide
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.

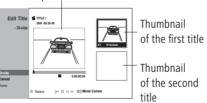
#### 2. Select the "Edit → Divide" option.

Play	
Play all	
Chapter List	
Delete	
Protect	Rename
Edit	Divide
	Hide

3. Press **OK** to confirm.

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

Current picture



- 4. Start playback and search for the point at which you want to divide the title using
  - frame-by-frame advance (press repeatedly),

  - search ( ◀◀ / ▶► ).
- 5. Press **OK** at the starting point for the second title.

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.

6. 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.

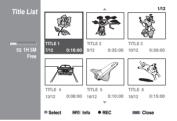
### **Additional Information**

### **Overwriting a Recording**

#### VR +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 ▲ ▼ ◀ ▶ 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 **1**. 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.

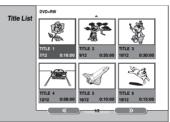
### Viewing Title Lists Created on another DVD Recorder

#### VR + 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**/ with button in stop mode.

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 **1**.

### 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.

## 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 chan- nel 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)

## 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/WMA, JPEG, (X)VCD, (X)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-pro- tected.	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 45
	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 con- nected 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 44)
The remote control is not working properly.	The remote control's batteries have run out.	Replace the old batteries with new ones.

## **Technical Specifications**

### General

Centros 2102 HD Centros 2172 HD Power supply Power consumption

Dimensions (approx.) Weight (approx.) Operating temperature Humidity TV system

Recording format

### Recording

Recording format Writable discs

Writable time

### Video recording format

Sampling frequency Compression format Audio recording format Sampling frequency Compression format

### Playback

Frequency response

Signal-to-noise ratio Harmonic distortion Item No. 64502 Item No. 64512 AC 110-240V, 50/60 Hz During operation: 35 W In standby mode: <1 W (with energy save function) 430 X 75 X 325 mm (W x H x D) 5.5 kg 5 °C to 35 °C 5 % to 90 % Centros 2102 HD: PAL B/G, PAL I, Secam DK Centros 2172 HD: PAL B/G, Secam L PAL

DVD Video-Recording, DVD-VIDEO DVD-ReWritable, DVD-Recordable, DVD+ReWritable, DVD+Recordable DVD+R (4,7 GB) Approx. 1 hour (HQ mode), 2 hours (SQ mode), 4 hours (LQ mode), 6 hours (EQ mode) DVD+R DL (8,5GB): Approx. 3 hours (HQ mode) 3:40 hours (SQ mode), 7:10 hours (LQ mode), 10:30 hours (EO mode)

27MHz MPFG 2

48kHz Dolby Digital Dynamic range

> 95 dB (AUDIO OUT connection)

### Inputs

AERIAL IN	Aerial input, 75 ohms
VIDEO IN	1.0 Vp-p 75 ohms, negative sync.,
	RCA socket x 2 / SCART x 2
AUDIO IN	0 dBm over 47 kohms, RCA socket
	(L, R) x 2 / SCART x 2
DV IN	4 pins (i.LINK/IEEE 1394-Standard(DV-25)
Cardreader	8 in 2: SD, MMC, Memorystick (Pro), CF, MD,
	xD, SMC

### **Outputs**

HDMI OUT Type A, 19 Pin, LVDS digital VIDEO OUT 1 Vp-p 75 &, negative sync., RCA socket x 1/ SCART S-VIDEO OUT (Y) 1.0 V (p-p), 75 ohms, negative sync., Mini DIN 4-pin x 1 (C) 0.3 V (p-p) 75 ohms (Y) 1,0 V (p-p), 75 ohms, negative sync., COMPONENT VIDEO OUT RCA socket x 1 (Pb)/(Pr) 0.7 V (p-p), 75 ohms, RCA socket x 3 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.

DVD (PCM 48 kHz): 8 Hz to 22 kHz, CD: 8 Hz to 20 kHz DVD (PCM 96 kHz): 8 Hz to 44 kHz Over 100 dB (AUDIO OUT connection) Less than 0.008% (AUDIO OUT connection)

### **Operating additional devices**

### 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

Plus"):

VCR VCR END \* EPG 9 wxyz 8 tuv 8 tuv 0 vCR V STB VCR VCR WCR VCR # PIP

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

Find the right code number for your unit in the "Code list RC3" (in the middle of this booklet). 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.

DVD TV STB VCR END \* EPG 0 AV 5 jkl 3 def 9 wxyz

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 flash twice.

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!

τν STR סעס END \* EPG 9 wxyz 9 wxyz (1 # PIP CU # PIP Ċ

\* EPG

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 flash twice. Key in, one by one, the figures

991. The display will flash once after each figure is input. Press the **# PIP** button to select

the first code. 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. 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.

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

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

### **Operating additional devices**

### Use the RC3 remote control for operating a Loewe Flat TV set





### Using the RC3 remote control to operate a VCR



Set the rotary switch to "VCR".

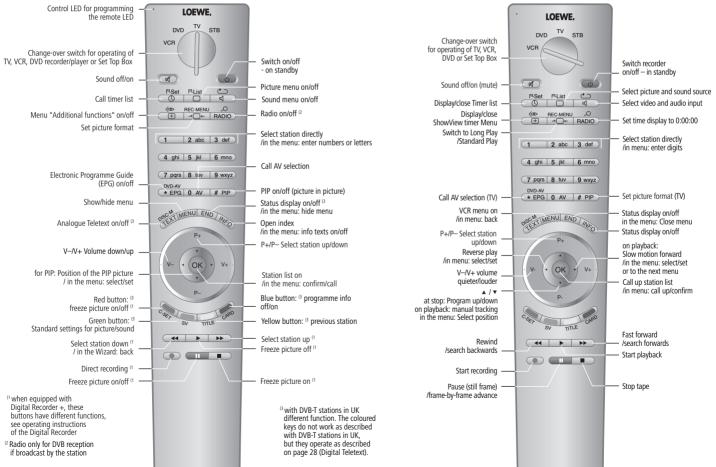
The infrared code and the functions for a Loewe VCR are preset at the factory.

In VCR mode, the following VCRs can be operated: ViewVision 8106H, 8136H, 8176H, 6306H, 6336H, 6376H, 6396H,

4306H, 4376H, 2102M, 2302M, 4206, 4236, 4276.

For other Loewe equipment than that listed, please use the original remote control.

#### Functions for Loewe DVD/VCRs (VV 8106, 8136, 8176)



### Functions for Loewe Flat-TV sets (Chassis L2650)

### 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.)

6	ode	Language	Code	Language	Code	Language
	565	Afar	7387	Hebrew	8379	Somali
	566	Abkhaz	7465	Japanese	8381	Albanian
	570	Afrikaans	7473	Yiddish	8382	Serbian
	577	Amharic	7487	Javanese	8385	Sudanese
	582	Arabic	7565	Georgian	8386	Swedish
	583	Assamese	7575	Kazakh	8387	Swahili
	588	Aymara	7576	Greenlandic	8465	Tamil
	590	Azerbaijani	7577	Cambodian	8469	Telugu
	665	Bashkir	7578	Canadian	8471	Tadzhik
	669	Byelorussian	7579	Korean	8472	Thai
	671	Bulgarian	7583	Kashmiri	8473	Tigrinya
	672	Bihari	7585	Kurdish	8475	Turkmen
	678	Bengali; Bangla	7589	Kirgiz	8476	Tagalog
	679	Tibetan	7665	Latin	8479	Tongan
	682	Breton	7678	Lingala	8482	Turkish
	765	Catalan	7679	Laotian	8484	Tatar
	779	Corsican	7684	Lituanian	8487	Twi
	783	Czech	7686	Latvian	8575	Ukranian
	789	Welsh	7771	Malagasy	8582	Urdu
	865	Danish	7773	Maori	8590	Uzbek
	869	German	7775	Macedonian	8673	Vietnamese
	890	Bhutanese	7776	Malayalam	8679	Volapuk
	976	Greek	7778	Mongolian	8779	Wolof
	978	English	7779	Moldovian	8872	Xhosa
6	979	Esperanto	7782	Marathi	8979	Yoruba
	983	Spanish	7783	Malay	9072	Chinese
6	984	Estonian	7784	Maltese	9085	Zulu
6	985	Basque	7789	Burmese		
7	065	Persian	7865	Nauruan		
7	073	Finnish	7869	Nepalese		
7	074	Fijian	7876	Dutch		
7	079	Faroese	7879	Norwegian		
7	082	French	7982	Oriya		
7	089	Frisian	8065	Punjabi		
7	165	Irish	8076	Polish		
7	168	Scottish	8083	Pashto		
		Gaelic	8084	Portuguese		
7	176	Galician	8185	Quechua		
7	178	Guarani	8277	Romansh		
7	185	Gujarati	8279	Romanian		
7	265	Hausa	8285	Russian		
7	273	Hindi	8365	Sanskrit		
	282	Croatian	8368	Sindhi		
	285	Hungarian	8372	Serbocroat		
	289	Armenian	8373	Singhalese		
	365	Interlingua	8375	Slovak		
	378	Indonesian	8376	Slovene		
	383	Icelandic	8377	Samoan		
7	384	Italian	8378	Shona		

## 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
AE	United Arab Emirates	CX	Christmas Islands	ID	Indonesia	MT	Malta
AF	Afghanistan	CY	Cyprus	IE	Ireland	MU	Mauritius
AG	Antigua and Barbuda	CZ	Czech Republic	IL	Israel	MV	Maldives
AI	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	Mozambigue
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	NE	Norfolk Island
AT	Austria	EG	Egypt	JO	Jordan	NG	
AU	Australia	EH	West Sahara	JP		NG	Nigeria
AU	Aruba	ER	Eritrea		Japan		Nicaragua
	Azerbaizhan	ES	Spain	KE	Kenya	NL	Netherlands
AZ				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)	ΚZ	Kazakhstan	PG	Papua New Guinea
BM	Bermuda	GA	Gabon	LA	Laos	PH	Philippines
BN	Brunei Darussalam	GB	Great Britain	LB	Lebanon	PK	Pakistan
BO	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				Saudi Arabia
CI		GU	Guam (USA)	MG MH	Madagascar Marshall Islands	SA	Saudi Aladia
CK	lvory Coast Cook Islands	GW	Guinea Bissau		Marshall Islands		
		GY	Guyana	MK	Macedonia		
CL	Chile		,	ML	Mali		
CM	Cameroon	HK	Hong Kong	MM	Myanmar		
CN	China	HM	Heard and McDonald	MN	Mongolia		
CO	Columbia		Islands	MO	Масао		
CR	Costa Rica	HN	Honduras	MP	Northern Mariana Islands		
CS	Former Czechoslovakia	HR	Croatia	MQ	Martinique (French)		
CU	Cuba	HT	Haiti	MR	Mauretania		

### **Service Addresses**

#### Australia

International Dynamics Australasia Pty Ltd. 129 Palmer Street AUS - Richmond, Victoria 3121 Tel. 00 61 - 3-94 29 08 22 Fax 00 61 - 3 - 94 29 08 33 Email ekyriakides@internationaldynamics.com.au **BeNeLux** 

#### Loewe Opta Benelux NV/SA

Uilenbaan 84 B–2160 Antwerpen Tel. 00 32 - 3- 2 70 99 30 Fax 00 32 - 3- 2 71 01 08 Email ccc@loewe.be

#### Denmark

Kjaerulff 1 A/S C.F.Tietgens Boulevard 19 DK–5220 Odense SØ Tel. 00 45 - 66 13 54 80 Fax 00 45 - 66 13 54 10 Email mail@kjaerulff1.com

#### Germany

Loewe Opta GmbH, Customer Care Center Industriestraße 11 D–96317 Kronach Tel. 0049 1801–22256393 Fax 0049 9261–99500 Email ccc@loewe.de

#### France

Loewe France S.A. 13 rue du Dépôt, Parc del l'Europe, BP 10010 F - 67014 Strasbourg Cédex Tel. 00 33 - 3- 88 79 72 50 Fax 00 33 - 3- 88 79 72 59 Email loewe.france@wanadoo.fr

### Greece

SOUND HELLAS S.A. Kleanthous Str. 10 GR-54642 Thessaloniki Tel. 00 30 - 2310 - 856 100 Fax 00 30 - 2310 - 856 300 Email sound@spark.net.qr

#### **Great Britain**

LinnSight Ltd. PO Box 8465 UK – KA 7 2YF Prestwick Tel. 00 44 - 12 92 - 47 15 57 Fax 00 44 - 12 92 - 47 15 54 Email helpline@linnsight.co.uk

#### CIS

Service Center Loewe Petrovsky per., d. 5, str. 3 of. 17 RUS-107031 Moscow Tel. 0 95 - 928 33 58 Fax 0 95 - 928 58 79 Email loewerus@online.ru Israel PL Trading (pz 2004) Ltd. 27, Aliat Hanoar St. ISR - Givataiim 53401 Tel. 00 972 - 3 - 57 27 155 Fax 00 972 - 3 - 57 27 150 Email zeev@loewe.co.il Italv Loewe Italiana SRL Lago del Perlar, 12 I-37135 Verona Tel 00 39 - 045 82 51 611 Fax 00 39 - 045 82 51 622 Email Edoardo.Bricchi@loewe.it Malta Mirage Holdings Ltd Flamingo Complex, Cannon Road M-Oormi Tel 0.03 56 22 - 79 40 00 Fax 0 03 56 21 - 44 59 83 Email s.martinelli@flamingo.com.mt Morokko SOMARA S.A. 377. Rue Mustapha El Maani MA-20000 Casablanca Tel. 00 21 22 - 2 22 03 08 Fax 00 21 22 - 2 26 00 06 Email somara@wanadoopro.ma Norway CableCom AS Østre Kullerød 5 N-3214 Sandefiord Tel. 00 47 - 33 48 33 48 Fax 00 47 - 33 44 60 44 Email roy@cablecom.no Austria Loewe Austria GmbH Parkring 10 A-1010 Wien Tel 00 43 1 / 51 633 - 31 34 Fax 00 43 1 / 51 633 - 30 32 Poland DSV TRADING SA Plac Kaszubski 8 PL-81-350 Gdynia Tel. 00 48 58 - 6 61 28 00 Fax 00 48 58 - 6 61 44 70 Email market@dsv.com.pl Portugal Vídeoacustica Comercio e Representacoes de Equipamentos Electronicos S.A. Estrada Circunvalacao, Ouinta do Paizinho, Arm. 5 P-2795-632 Carnaxide Tel. 0 03 51 - 2 14 24 17 70 Fax 0 03 51 - 2 14 18 80 93 Email office@videoacustica.pt Sweden Kiaerulff 1 AB Ridbanegatan 4, Box 9076 S-200 39 Malmö Tel. 00 46 - 4 06 79 74 00

Fax 00 46 - 4 06 79 74 01 Switzerland Telion AG Rütistrasse 26 CH-8952 Schlieren Tel. 00 41 - 44 732 15 11 Fax 00 41 - 44 730 15 02 Email infoCE@telion.ch Slowenia Jadran Trgovsko Podjetje Partizanska cesta 69 SL-6210 Sezana Tel. 0 03 86 - 57 31 04 40 Fax 0 03 86 - 57 31 04 42 Email milos.zvanut@jadran.si Spain/Canary Islands Gaplasa S.A. Conde de Torroia. 25 E-28022 Madrid Tel. 0 03 49 - 17 48 29 60 Fax 0 03 49 - 13 29 16 75 Email loewe@maygap.com South Africa THE SOUNDLAB PTY ITD P.O. Box 31952, Kylami 1684 Republic of South Africa Tel. 00 27 - 1 14 66 47 00 Fax 00 27 - 1 14 66 42 85 Email loewe@mad.co.za **Czech Republic** K+B EXPERT SPOL. S R.O. U Expertu 91 CZ - 25069 Klicany u Prahy Tel: 0 04 20 - 2 72 12 21 11 (222) Fax: 0 04 20 - 2 72 12 21 99 (239) Email loewe@kbexpert.cz Turkey Enkay Elektronik Servis Müdürlügü Alemdag Cad: Site Yolu No.: 10 Ümranive/ Istanbul Tel. 00 90 - 216 634 44 44 Fax 00 90 - 216 643 39 88 Email mhatipog@enkavgroup.com Hungary Basys Magyarorszagi KFT Epitok utja 2–4 H-2040 Budaörs Tel. 00 36 - 23 41 56 37 (121) Fax 00 36 - 23 41 51 82 Email basys@mail.nasys.hu Cyprus HADJIKYRIAKOS & SONS LTD. Prodromou 121, P.O Box 21587 CY-1511 Nicosia, Cyprus Tel. 0 03 57 - 22 87 21 11 Fax 0 03 57 - 22 66 33 91 Email savvas@hadjikyriakos.com.cy

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Loewe				Dantax					0723	Karcher				0783	P&B				0818
				DEC				0699	0818	Kendo				0699	Pacific	0768	0790	0713	0831
				Decca					0770	Kenwood		0534	0490	0737	Palladium				0695
DVD-Player			0539	Denon				0490	0634	Kiiro			0718	0770	Palsonic			0689	0672
DVD-Recorder Centros 1	1x2		0741	Denver				0699	0788	Kingavon				0818	Panasonic			0490	1908
DVD-Recorder Centros 2			1463	Denzel					0665	Kiss				0665	Panda				0783
STB			1127	Diamond			0651	0768		Koda				0818	Philips	0539	0646	0503	
VCR			0866	Digihome			0051	0700	0713	Koss				0651	Phonotrend	0555	0040	0505	0699
ven			0000	digiRED					0715	Lawson		0705	0716		Pioneer	0571	0621	1900	
												0705	0710			0571	0051	1900	
				Digitrex					0672	Lecson	0.000	0054	0770	0696	Pointer				0770
DVD				DiK					0831	Lenco	0699	0651	0770		Powerpoint				0718
				Dinamic					0788	Lenoxx				0690	Proline	0651	0672	0790	
				DiViDo					0705	Lexia				0699	Proscan				0522
3DLAB			0539	DK digital					0831	LG		0591	0741		Prosonic				0699
A-Trend			0714	DMTECH				0783	0790	Lifetec				0651	Provision				0699
Acoustic Solutions			0730	Dragon					0831	Limit			0716	0768	Radionette				0741
AEG		0788		Dual		0665	0651	0713	0730	Loewe			0539	1922	Raite				0665
Aiwa		0641					0783	3 0790	0831	LogicLab				0768	Rank Arena				0718
	0710			E-Boda					0723	Logix			0705		RCA			0522	
Akai 0790 0788 0690	0/16	0/13		Eclipse					0723	Lumatron			0705	0705	REC			0689	
AKI			0718	Electrohom	0				0725	Luxman				0573	Red Star			0770	
Akira			0699	Elin	e				0770	Luxor				1004	Reoc			0770	0768
Alba 0717 0699	0713	0723				0000	0770	0700					0500						
All-Tel			0790	Elta		0690	0770			Magnavox			0503		Revoy	0.000	0.000	0740	0699
Amitech			0770	Emerson				0591		Magnex				0723		0690	0689	0/13	
Amstrad			0713	Enzer					0665	Manhattan				0705	Rotel				0623
Apex Digital			0672	Ferguson					0651	Marantz				0539	Rowa				1004
Audiosonic			0690	Finlux			0741	0770		Mark				0713	Saba				0651
AWA			0730	Firstline					0651	Matsui			0651	0695	Sabaki				0768
Black Diamond			0713	Funai					0695	MBO			0690	0730	Salora				0741
Blaupunkt			0717	GE					0717	MDS				0699	Samsung			0573	0490
Blue Sky 0699 0695	0713	0672	• • • •	Global Solu	itions				0768	Medion	0651	0783	0716	0831		0716	0768	0723	0770
Boman	0/15		0783	Global Sphe	ere				0768	Memorex				0831	Sanyo		0670	0695	0790
Brain Wave			0783	Go Video					0783	Metz			0571		Scan				0705
				GoldStar				0591		MiCO				0723	ScanMagic				0730
Brandt	0.000	0651		Goodmans		0651	1004			Microboss				0718	Schaub Lorenz			0788	
Bush 0699				dooumans		0051		0723		Micromaxx				0695	Schneider 0651	0783	0705		
0713 0818	0695			Graetz			0705	0725	0665	Micromedia			0503		Scientific Labs	0705	0705	0790	0768
C-Tech			0768						0716				0505				0710	0051	
Cambridge Audio			0696	Grandin		0520	0005	0.054		Micromega				0539	Scott			0651	
Cambridge Soundworks			0696	Grundig	0705		0695			Microsoft				0522	SEG		0665	0713	
CAT			0699		0705	0/90	0713	0670		Microstar				0831	Shanghai				0672
Celestial			0672	Grunkel					0770	Minax				0713	Sharp			0630	
Centrex		0672	1004	H&B				0818		Minoka				0770	Sherwood		0717	0741	
Centrum			0713	Haaz					0768	Mitsubishi				0713	Shinco				0717
cineULTRA			0699	Hanseatic					0741	Mizuda				0818	Silva				0788
Classic			0730	HCM					0788	Monyka				0665	SilvaSchneider				0831
Clatronic			0788	HDT					0705	Mustek				0730	Singer		0690	0716	0723
			0788	HE					0730	Mx Onda			0651		Skymaster			0730	
Clayton			0730	Henß					0713	NAD				0741	Slim Art				0770
Coby				Hitachi			0664	0665		Naiko				0770	SM Electronic		0730	0768	
Conia	0770		0672	Hiteker			0004	0000	0672	Neufunk				0665	Smart			0705	
	0//0	0651		Home Elect	ronicc				0730	Nordmende				0831	Sonashi		0710	0103	0715
Cybercom			0831		1011105				0783				0690			0522	0572	1002	
CyberHome		0714		Hyundai						Omni					Sony	0533	05/3	1903	
		0651		Ingelen					0788	Onkyo			0627		Soundmaster				0768
Daewoo	0770	0705	0714	ISP					0695	Optimus				0571	Soundmax				0768
Daewoo International			0699	Jeken					0699	Orava				0818	Soundwave				0783
Dansai		0770	0783	JMB					0695	Orion				0695	Standard			0651	
				JVC	0623	0539	0503	1901	1940	Oritron				0651	Starmedia				0818

Sunwood Supervision SVA Synn Tandberg Tatung Teac 0717 0741 057	078 0730 076 067 076 071 077 1 0768 059 079	Audiosonic AVP AWA 0033 Baird 0106 0278 Basic Line Bestar	7 0278 3 0104	0352 0642 0041 0209	0278 0000 0043 0000	Fisher Flint Frontech Fujitsu Funai Galaxi Galaxis				0042 0104		Kimari Kneissel Kolster Korpel Kuba Electror Kuwa Kyoto		0352	0209	0348 0209	0047 0037 0348 0072 0047 0047 0226 0072
Technics	0490 190	Black Panther			0278	GE					0320	Lenco					0278
Technika	077	· · · · · ·		0226		GEC	- la i				0081	Leyco			0007	0000	0072
Techwood Tensai	071 0690 065	Blue Sky 003	7 0209	0348 0278		General Teo Genexxa	cnnic				0348 0104	LG Lifetec			0037	0000	0278 0348
Tevion	0651 076	Bondstec	0552	0270	0000	Goldhand					0072		081	1562	0226	0209	
Theta Digital	057			0041	0320	GoldStar				0037		Logik				0106	
Thomson	0551 052	Brandt Electronique			0041	Goodmans			0072			Lumatron					0278
Tokai	0665 078			0209			0081	0348	0209			Luxor 0	106	0043	0072	0104	
Tokiwa Toshiba	0705 071 050		0209			Graetz	0104	0040		0104							0048
Umax	050				0081 0081	Granada	0104	0048	0081	0240		Magnavox Manesth		0072	0045	0081	0081
	8 0730 079			0209	0081	Grandin	0072	0037	0000			Marantz		0072		0038	
	1 0713 059	Casio			0000	Grundig			0226			Mark			0001	0050	0278
Venturer	079				0278	5					0072	Matsui 02	209	0348	0037	0240	0352
Vieta	070				0000	Haaz				0348							0000
Voxson	0730 083	Cimline			0209	Hanimex	0027	0200	0770	0001	0352	Mediator			0200	0240	0081
Walkvision Welkin	071 083			0072	0000 0352	Hanseatic Harwood	0057	0209	0270	0001	0038	Medion Melectronic				0348 0037	
Wesder	069				0278	HCM					0072	Memorex 0	104	0000			
Wharfedale	0696 072			0278	0072	Hinari	0072	0209	0352	0041		Memphis				00.0	0072
Windy Sam	057				0081						0240		562	0347	0081	0226	
XBox	052		2 0209	0348	0352	Hisawa				0209		Micormay					0348
XLogic XMS	0770 076 0788 068			0072	0270	Hischito	0042	0041	0000	0240	0045	Micromaxx					0209 0000
Yamada	100			0072	0278 0278	Hitachi	0042	0041	0000	0240	0384	Migros Mitsubishi			00/13	0067	
	0 0539 064		2 0081	0104		Hornyphon	e			0104	0081	Multitec			0045	0007	0037
Yamakawa 066	5 0710 076					Hypson		0072	0209	0278		Multitech			0000	0072	
Yelo	071					Imperial				0000		Murphy					0000
Yukai	073				0278	Ingersoll			0240	0209		Myryad					0081
Zenith 0503	3 0591 074	Denko Diamant			0072 0037	Inno Hit Interbuy			0240	0278 0037		NAD National				1562	0104 0226
VCR		Domland			0209	Interfunk				0037			041	0038	0067	0104	
			0081	0278		Internal				0001	0278	Neckermann	1 -0	0050	0007	0041	
Adyson	007	bannonie	0000	0081		Internation				0278		Nesco			0072	0000	
Aiwa0307 0000 0209 034				0278	0038	Intervision	0000	0278				Neufunk					0209
Akai 0106 0315 004	1 0252 024				0072 0240	Irradio	0100	00.44		0037		Nikkai	404	0400	0245		0278
Akashi	007				0240 0072	ITT ITT Nokia	0106	0041	0384	0104	0240 0048	Nokia 0				0041 0042	
Akiba	007			0072	0072	ITT NORIA				0278		Nordmende				0042	
Akura	0072 004	Emerson	0072	0045		JMB				0209		NU-TEC		0011	0501		0348
Alba0278 0072 0209 0352		ESC		0278	0240	Joyce					0000		000	0048	0106	0081	0104
A 11	0348 008	Etzuko			0072	JVC			0041	0067		0041					
Allorgan	024 008			0000	0897	Kaisui					0072		315	0209	0348	0072	
Allstar Amstrad 000	008 0 0278 007		0320	0000		Kambrook Karcher					0037 0278	Orbit Orion			0200	0352	0072
Anitech	0 0278 007					Kendo	0106	0209	0315	0348		Orson			0209	0352	0348
Ansonic	000			5000			5100	5205	5515	0010	0037	Osaki			0000	0037	
Aristona	800	Finlux 0000	0081			Kenwood				0041	0038	Osume					0072
ASA	0037 008	Firstline 0072 0209	0348	0043	0037	KIC					0000	Otake					0209

0.11.11			0004	C:1					0007	N/ 1					0044	C 1 1				0504
Otto Versand	- 0027	00/1	0081	Silva					0037	Yamaha				0072	0041	Cambridge				0501
Palladium 0072 0315				Silver					0278	Yamishi				0072		Canal Satellite				0853
	0240	0348		Singer				0004	0045	Yokan			0007	0070	0072	Canal+		0422	0740	0853
Palsonic			0000	Sinudyne				0081		Yoko			0037	0072		Cherokee	0457		0710	
Panasonic		1562	0226	Smaragd					0348	ZX					0209	Chess			0713	
Pathe Cinema			0043	Sonitron					0047							CityCom		0115	0607	
Pathe Marconi			0041	Sonneclair					0072							Clemens Kampl	านร		0834	
Perdio			0209	Sonoko					0278	SAT /ST	B)					Cobra				0396
Philco			0072	Sonolor					0048							Colombia			0668	
Philips		0081	0384	Sontec				0037		@sat					1300	Columbia				0132
Phoenix			0278	Sony				0032		ABsat		0668	0123	1323	0710	Columbus				0668
Phonola			0081	Soundwave			0037	0209		ADB					0642	Comag				0132
Pioneer	0067	0081		Ssangyong					0072	Adcom					0200	Condor				0607
Portland			0278	Standard					0278	AGS				0668	0710	Connexions				0396
Prinz			0000	Starlite				0037		Akai					0200	Conrad		0573	0115	
Profitronic			0240	Stern					0278	Akena					0668	Conrad Electror	nic		0607	
Proline		0000	0320	Sunkai			0209	0348		Alba				0455	0713	Cryptovision			0455	
Prosco			0278	Sunstar					0000	Allsat			0200	1017	1043	Cyrus				0200
Prosonic	0209	0278	0000	Suntronic					0000	Alltech					0713	D-box		1127	1114	0723
Protech			0081	Sunwood					0072	Alpha				0668		Daeryung				0396
Provision			0278	Supra				0037	0240	Altai					0396	Daewoo			1296	0713
Руе			0081	Symphonic				0000	0072	Amitronica					0713	Delfa				0863
Quasar			0278	T+A					0226	Ampere				0396		Deltasat				1075
Quelle			0081	Taisho					0209		0847	0713	0742			DGTEC				1242
Radialva 0037	0072	0081	0048	Tandberg					0278				0501			Digatron				1294
Radiola			0081	Tashiko	0000	0048	0240	0081	0037	Anglo	0005	0005	0501	0755	0713	Digenius				0299
Rank			0041	Tatung	0000	0041	0081	0048	0043	Ankaro					0713	Digiality				0607
Reoc	0209	0348	0278	5			0209	0348	0352	AntSat				1017		Digipro				1105
Rex		0041	0384	Teac	0072	0041	0000	0278	0642	Apollo				1017	0455	DigiQuest				0863
RFT			0072					0081			1205	1043	0834	0132		Diskoverer			0605	0157
Roadstar 0240	0072	0037	0278	TEC				0278	0072	Armstrong	1205	1045	0054	0152	0200	Diskovery			0668	0710
Royal			0072	Tech Line					0072	Asat					0200	Disegc				0710
	0320	0384	0278	TechniSat				0348		ASLF					0713	Distratel		0084	0885	1205
Saisho		0209	0348	Teleavia					0041	AssCom					0853	Distrisat				0200
Salora	0043	0106		Telefunken		0041	0320	0384		Astacom				0668		DMT				1075
Samsung			0432	Teletech				0278		Aston				0000	1129	DNT			0200	
Sansui 0041 0067	0106			Tenosal					0072	Astra				0607		DREAM multim	edia.TV			1237
	1 0047			Tensai			0000	0037			0122	0173	0501			DStv			0642	
Saville		0278		Tevion			0000		0209	ASIIU	0133		1099			5500			00.2	0075
SBR	0002	0270	0081	Thomson	0320	0041	0067			Athena		1115	1099	1100	0200	Echostar 061	0 1169	0871	0167	0853
Scan Sonic			0240	Thorn	0020			0104		Atlanta					0008		6 1200			
	0104	0000		Thorn-Ferg	uson		0011	0101	0320	Aurora					0879	100	0 1200		0511	
	0104	0000	0315	Tokai	uson	0072	0037	0041			0060	0612	0497	0070		Einhell			0713	
Schneider 0072 0000	0037	0081		Tokiwa		0072	0057	0041	0072		0005	0042	0497	00/9	0396	Elap	0713		0668	
Jennelael 0072 0000		0001		Topline					0348	Avalon				0000		Elsat	0715	1125	0000	0713
Seaway	0240	0042	0278	Toshiba	0045	00/1	0384	0043		Axiel				0668 1111		Elta				0200
SEG 0072 0240	0278	0642		Towada	0045	0041	0504	0045	0072	Axis				1111		Emme Esse				0871
SEI 0072 0240	0270	0042	0081	Tredex					0278	Beko					0455	Engel			1017	
Sei-Sinudyne			0081	Uher				0037		Bentley Wa	Iker				1017	EP Sat			1017	0455
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