

DVD RECORDER OWNER'S MANUAL

MODEL : DR4912



Before connecting, operating or adjusting this product, please read this instruction booklet carefully and completely.

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Safety Precautions



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

WARNING: TO REDUCE THE RISK OF FIRE OR ELEC-TRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

WARNING: Do not install this equipment in a confined space such as a book case or similar unit.



CAUTION:

This DVD Recorder employs a Laser System.

To ensure proper use of this product, please read this owner's manual carefully and retain for future reference should the unit require maintenance, contact an authorized service location (see service procedure).

Use of controls, adjustments, or the performance of procedures other than those specified herein may result in hazardous radiation exposure.

To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation when open. DO NOT STARE INTO BEAM.

CAUTION: The apparatus should not be exposed to water (dripping or splashing) and no objects filled with liquids, such as vases, should be placed on the apparatus.

This product is manufactured to comply with the radio interference requirements of EEC DIRECTIVE 89/336/EEC, 93/68/EEC and 73/23/EEC. **POWER:** This DVD Recorder operates on a mains supply of $110-240V_{\sim}$, 50/60Hz.

WIRING: This DVD Recorder is supplied with a BSI 1363 approved 13 amp mains plug, fused at 5 amp. When replacing the fuse always use a 5 amp BS 1362, BSI or ASTA approved type. Never use this plug with the fuse cover omitted. To obtain a replacement fuse cover contact your dealer or "LG Electronics U.K.Ltd." If the type of plug supplied is not suitable for the mains sockets in your home, then the plug should be removed and a suitable type fitted. Please refer to the wiring instructions below:

WARNING: A mains plug removed from the mains lead of this DVD Recorder must be destroyed. A mains plug with bared wires is hazardous if inserted in a mains socket.

Do not connect either wire to the earth pin, marked with the letter E or with the earth symbol $\frac{1}{2}$ or coloured green or green and yellow.

If any other plug is fitted, use a 5 amp fuse, either in the plug, or at the distribution board.

IMPORTANT: The wires in this mains lead are coloured in accordance with the following codes:

- BLUE: NEUTRAL, BROWN: LIVE - As the colours of the wires in the mains lead of this DVD Recorder may not correspond with the coloured marking identifying the terminals in your plug, proceed as follows: The wire which is

coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

NNOTES ON COPYRIGHTS:

It is forbidden by law to copy, broadcast, show, broadcast via cable, play in public, or rent copyrighted material without permission.

This product features the copy protection function developed by Macrovision. Copy protection signals are recorded on some discs. When recording and playing the pictures of these discs on a VCR, picture noise will appear.

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

SERIAL NUMBER: The serial number is found on the back of this unit. This number is unique to this unit and not available to others. You should record requested information here and retain this guide as a permanent record of your purchase.

Model No. _ Serial No. _

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About the symbols for instructions

 $\underline{\bigwedge}$ Indicates hazards likely to cause harm to the unit itself or other material damage.

M Indicates special operating features of this unit.

 $extsf{T}$ Indicates tips and hints for making the task easier.



DVD Recorder Overview

Recordable Discs

DVD-RW (Digital Video Disc - ReWritable): These Discs can be recorded on repeatedly.

Recordings can be erased, then you can record again on the same Disc.



DVD-R (Digital Video Disc - Recordable): These Discs can be recorded only once. After you finalize a DVD-R, you cannot record on it or edit it any more.



DVD+RW (Digital Video Disc + ReWritable): These Discs can be recorded on repeatedly. Recordings can be erased, then you can record again on the same Disc.



DVD+R (Digital Video Disc + Recordable): These Discs can be recorded only once. After you finalize a DVD+R, you cannot record on it or edit it any more.

N otes

- This recorder cannot record CD-R or CD-RW discs.
- DVD-R/RW, DVD+R/RW and CD-R/RW discs recorded using a personal computer or a DVD or CD recorder may not play if the disc is damaged or dirty, or if there is dirt of condensation on the recorder's lens
- If you record a disc using a personal computer, even if it is recorded in a compatible format, there are cases in which it may not play because of the settings of the application software used to create the disc. (Check with the software publisher for more detailed information.)

Playable Discs

DVD (8 cm/12 cm disc)
Video CD (VCD) (8 cm / 12 cm disc)
Audio CD (8 cm/12 cm disc)

In addition, this unit can play DVD-R/DVD-RW discs; DVD+R/DVD+RW discs; CD-R/CD-RW discs that contain audio titles, MP3 files, or JPEG files; SVCD; and kodak picture CDs.

N otes

- Depending on the conditions of the recording equipment or the CD-R/RW (or DVD±R/±RW) disc itself. some CD-R/RW (or DVD±R/±RW) discs cannot be played on the unit.
- Do not attach any seal or label to either side (the labeled side or the recorded side) of a disc.
- Do not use irregularly shaped CDs (e.g., heart-shaped or octagonal). Doing so may result in malfunctions.

Regional code of the DVD Recorder and DVDs



This DVD Recorder is designed and manufactured for playback of Region 2 encoded DVD software. The region code on the labels of some DVD discs indicates which type of DVD Recorder can play those discs. This unit can play only DVD discs labeled 2 or ALL. If you try to play any other discs, the message "Incorrect region code. Can't play back" will appear on the TV screen. Some DVD discs may not have a region code label even though their playback is prohibited by area limits.

Notes on DVDs and Video CDs

Some playback operations of DVDs and Video CDs may be intentionally fixed by software manufacturers. As this unit plays DVDs and Video CDs according to disc content designed by the software manufacturer, some playback features of the unit may not be available or other functions may be added.

Refer also to the instructions supplied with the DVDs and Video CDs. Some DVDs made for business purposes may not be played on the unit.



Disc-related terms

Title (DVD only)

The main film content or accompanying feature content or music album.

Each title is assigned a title reference number enabling you to locate it easily.

Chapter (DVD only)

Sections of a picture or a musical piece that are smaller than titles. A title is composed of one or several chapters. Each chapter is assigned a chapter number to enable you to locate the chapter you want. Depending on the disc, chapters may not be labeled.

Track (Video CD and audio CD only)

Sections of a picture or a musical piece on a video CD or an audio CD. Each track is assigned a track number, enabling you to locate the track you want.

Scene

On a video CD with PBC (Playback control) functions, moving pictures and still pictures are divided into sections called "Scenes". Each scene available is displayed on the Scene menu and assigned a scene number, enabling you to locate the scene you want. A scene may be composed of one or several tracks.

Types of video CDs

There are two types of video CDs:

Video CDs equipped with PBC (Version 2.0)

PBC (Playback control) functions allow you to interact with the system via menus, search functions, or other typical computer-like operations. Moreover, high resolution still pictures can be played if they are included on the disc.

Video CDs not equipped with PBC (Version 1.1)

Operated in the same way as audio CDs, these discs allow playback of video pictures as well as sound, but they are not equipped with PBC.

About Symbols

About the \odot symbol display

" \odot " may appear on the TV screen during operation. This icon means the function explained in this owner's manual is not available on that specific disc.

About the disc symbols for instructions

A section whose title has one of the following symbols are applicable only to those discs represented by the symbol.

Many functions of this recorder are dependent on the recording mode. One or more of the symbols

(**Video**, **VR**, **+R**, **+RW**) appear by each function explained in this manual so that you can see at a glance whether it's relevant for the disc loaded.

Video DVD-R/RW with Video recording mode		
VR DVD-RW with VR recording mode		
+R DVD+R disc		
+RW DVD+RW disc		
DVD DVD-Video disc		
VCD Video CDs		
CD Audio CDs		
MP3 MP3 CDs		
JPEG JPEG CDs		
The finalized DVD disc is as DVD-Video disc		

About DVD-R and DVD-RW disc

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

The essential difference between DVD-R and DVD-RW is that DVD-R is a record-once medium, while DVD-RW is a re-recordable/erasable medium. You can re-record/ erase a DVD-RW disc approximately 1,000 times.

Can I play my recordable discs in a regular DVD player?

Generally, DVD-R discs and DVD-RW discs recorded in Video mode are playable in a regular DVD player, but they must be 'finalized' first. This process fixes the contents of the disc to make them readable to other DVD players as DVD-Video discs.

DVD-RW discs recorded in VR (Video Recording) mode are playable in some players.



This indicates a product feature that is capable of playing DVD-RW discs recorded with Video Recording format.

What are 'recording modes'?

There are two recording modes available using this recorder: VR mode and Video mode. When recording to a DVD-R disc, recordings are always in Video mode. DVD-RW discs can be formatted for VR mode recording or Video mode recording.

VR mode recording

- 4 different picture quality/recording time settings available (HQ, SQ, LQ, EQ)
- Not playable on regular DVD players
- · Recordings can be extensively edited

Video mode recording

- 4 different picture quality/recording time settings available (HQ, SQ, LQ, EQ)
- · Playable on regular DVD players (after finalizing)
- · Limited editing features

N ote

DVD-Video Format (Video mode) is a new format for recording on DVD-R/RW and DVD+R/RW discs that was approved by the DVD Forum in 2000. You may therefore experience problems playing recordable DVD discs in some players. Symptoms include video artifacts, audio and/or video dropouts and playback suddenly stopping.

Our company cannot take responsibility for problems playing discs recorded on this recorder in other players.

Is editing a DVD like editing a video tape?

No. When you edit a video tape you need one video deck to play the original tape and another to record the edits. With DVD, you edit by making a 'Playlist' of what to play and when to play it. On playback, the recorder plays the disc according to the Playlist.

About word 'Original' and 'Playlist'

Throughout this manual, you will often see the words Original and Playlist to refer to the actual content and the edited version.

- **Original:** content refers to what's actually recorded on the disc.
- Playlist: content refers to the edited version of the disc — how the Original content is to be played.

About DVD+R and DVD+RW disc

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

The essential difference between DVD+R and DVD+RW is that DVD+R is a record-once medium, while DVD+RW is a re-recordable/erasable medium. You can re-record/ erase a DVD+RW disc approximately 1,000 times.

DVD+RW mode recording

- 4 different picture quality/recording time settings available (HQ, SQ, LQ, EQ)
- · Playable on regular DVD players
- The edited contents is playable on regular DVD players only after finalizing
- · Recordings can be edited the title/chapter

DVD+R mode recording

- 4 different picture quality/recording time settings available (HQ, SQ, LQ, EQ)
- Playable on regular DVD players (after finalizing)
- Any edited contents are not be compatible on regular DVD players. (Hide, chapter combine, added chapter mark, etc.)
- · Limited title/chapter editing features

About DVD recording

Notes

- This recorder cannot make recordings on CD-R or CD-RW discs.
- Our company takes no responsibility for recording failure due to power cuts, defective discs, or damage to the recorder.
- Fingerprints and small scratches on a disc can affect playback and/or recording performance. Please take proper care of your discs.

Disc types and recording formats, modes, and settings

This recorder can play five different kinds of DVD disc: pre-recorded DVD-Video discs, DVD-RW, DVD-R, DVD+RW and DVD+R discs. The disc format for DVD-R discs is always "Video format"—the same as pre-recorded DVD-Video discs. This means that once finalized, you can play a DVD-R in a regular DVD player. By default, the DVD-RW disc format is Video Recording format, though you can change this to Video format, if required. (Reinitializing the disc will erase the contents of the disc.)

The recording mode is closely related to the disc format. If the disc format is Video Recording format, then the recording mode is VR mode; if the disc format is Video mode, then the recording mode is Video mode (except for DVD-Video, which is not recordable, and so does not have a recording mode).

Within the recording modes (which are fixed for the whole disc) are the record settings. These can be changed as required for each recording and determine the picture quality and how much space the recording will take up on the disc.

Notes for recording

- The recording times shown are not exact because the recorder uses variable bit-rate video compression. This means that the exact recording time will depend on the material being recorded.
- When recording a TV broadcast, if the reception is poor or the picture contains interference, the recording times may be shorter.
- If you record still pictures or audio only, the recording time may be longer.
- The displayed times for recording and time remaining may not always add up to exactly the length of the disc.
- The recording time available may decrease if you heavily edit a disc.
- If using a DVD-RW disc, make sure you change the recording format (Video mode or VR mode) before you record anything on the disc. See page 27 (Disc Format) for how to do this.
- When using a DVD-R disc, you can keep recording until the disc is full, or until you finalize the disc. Before you start a recording session, check the amount of recording time left on the disc.
- When using a DVD-RW disc in Video mode, recording time available will only increase if you erase the last title recorded on the disc.
- The Erase Title option in the Title List-Original menu only hides the title, it does not actually erase the title from the disc and increase the recording time available (except for the last recorded title on a DVD-RW disc in Video mode).
- The overwrite recording is available with DVD+RW disc.

Disc type	Disc format	Recording mode	Functions
DVD-Video	Video format	n/a	Playback only
DVD-RW	Video Recording format (default)	VR mode	Playback, recording, Original/Playlist editing
	Video format	Video mode	Playback, limited recording, limited editing
DVD-R	Video format	Video mode	Playback, limited recording, limited editing
DVD+RW	+RW Video format	DVD+RW	Playback, limited recording, Title/Chapter editing
DVD+R	+R Video format	DVD+R	Playback, limited recording, limited Title/Chapter editing

Recording TV audio channels

This recorder can record either NICAM or regular audio. If the NICAM setting (page 21) is set to Auto, then if the broadcast is NICAM, you can record the NICAM audio. If the broadcast is non-NICAM, the regular audio is always recorded.

Restrictions on video recording

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

What is 'CPRM'?

CPRM is a copy protection system (with scramble system) only allowing the recording of 'copy once' broadcast programs. CPRM stands for Content Protection for Recordable Media.

This recorder is CPRM compatible, which means that you can record copy-once broadcast programs, but you cannot then make a copy of those recordings. CPRM recordings can only be made on DVD-RW discs formatted in VR mode, and CPRM recordings can only be played on players that are specifically compatible with CPRM.

Copyright

- Recording equipment should be used only for lawful copying and you are advised to check carefully what is lawful copying in the country in which you are making a copy. Copying of copyright material such as films or music is unlawful unless permitted by a legal exception or consented to by the rights owner.
- This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision corporation. Reverse engineering or disassembly is prohibited.

Remote Control Operation Range

Point the remote control at the remote sensor and press the buttons.

Remote Control Battery Installation



Detach the battery cover on the rear of the remote control, and insert two R03 (size AAA) batteries with ⊕ and ● aligned correctly.

∠!\Caution

Do not mix old and new batteries. Never mix different types of batteries (standard, alkaline, etc.).

Reset the DVD Recorder

If you observe any of the following symptoms...

- The unit is plugged in, but the power will not turn on or off.
- The front panel display is not working.
- The DVD Recorder is not operating normally.
- ...you can reset the DVD Recorder as follows:
- Press and hold the POWER button for at least five seconds. This will force the unit to power off.
 Press the POWER button again to turn the unit back on.
- Unplug the power cord, wait at least five seconds, and then plug it in again.



Precautions

Handling the unit

When shipping the unit

The original shipping carton and packing materials come in handy. For maximum protection, re-pack the unit as it was originally packaged at the factory.

When setting up the unit

The picture and sound of a nearby TV, VCR, or radio may be distorted during playback. In this case, position the unit away from the TV, VCR, or radio, or turn off the unit after removing the disc.

To keep the surface clean

Do not use volatile liquids, such as insecticide spray, near the unit. Do not leave rubber or plastic products in contact with the unit for a long period of time. They will leave marks on the surface.

Cleaning the unit

To clean the cabinet

Use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution. Do not use strong solvents such as alcohol, benzine, or thinner, as these might damage the surface of the unit.

To obtain a clear picture

The DVD Recorder is a high-tech, precision device. If the optical pick-up lens and disc drive parts are dirty or worn, the picture quality will be poor.

Regular inspection and maintenance are recommended after every 1,000 hours of use. (This depends on the operating environment.)

For details, please contact your nearest dealer.

Notes on Discs

Handling discs

Do not touch the playback side of the disc. Hold the disc by the edges so that fingerprints will not get on the surface. Do not stick paper or tape on the disc.

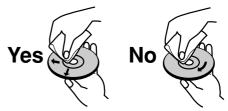


Storing discs

After playing, store the disc in its case. Do not expose the disc to direct sunlight or sources of heat, or leave it in a parked car exposed to direct sunlight, as there may be a considerable temperature increase inside the car.

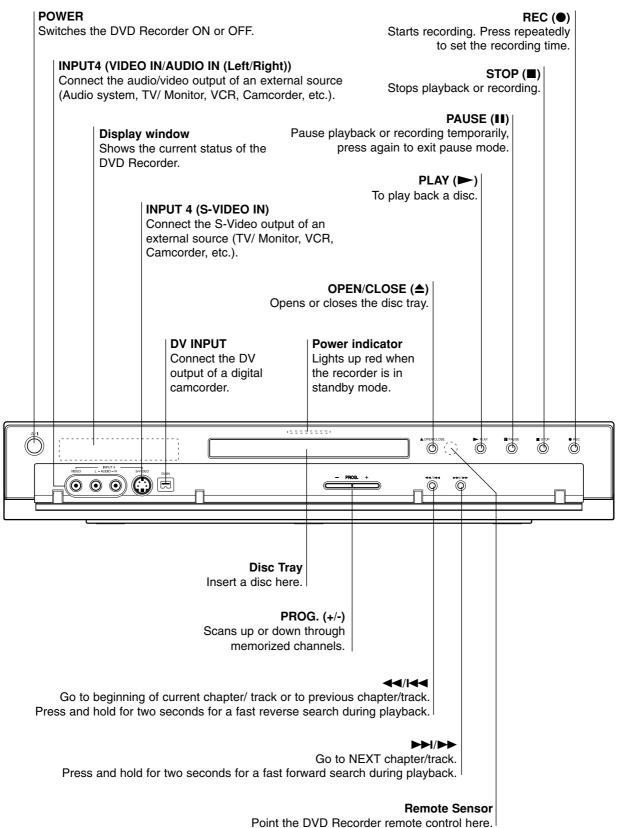
Cleaning discs

Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center outward.



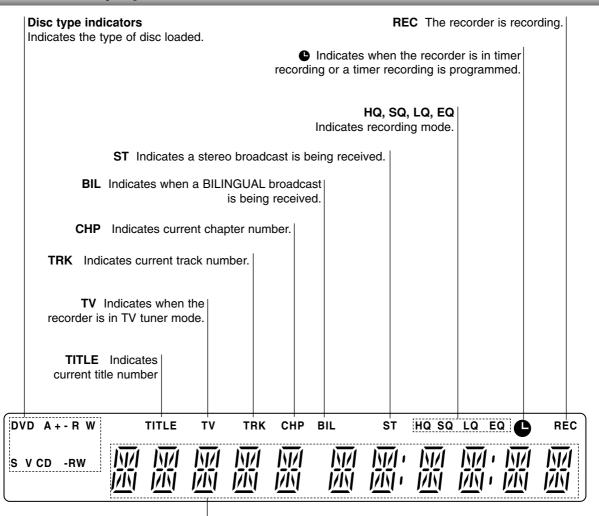
Do not use strong solvents such as alcohol, benzine, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.

Front Panel



INTRODUCTION

Function Display Window



Character indicators

Indicates clock, total playing time, elapsed time, title number, chapter/track number, channel, etc.

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Remote Control Overview

POWER

Switches the recorder ON or OFF.

TV/DVD

To view channels selected by the recorder tuner or by the TV tuner. PIP

Selects PIP function on or off.

0-9 numerical buttons

Selects numbered options in a menu. ΔV

Changes the input to use for recording (Tuner, AV1-4, or DV IN).

AUDIO

Selects an audio language (DVD) or an audio channel (CD).

SUBTITLE Selects a subtitle language.

ANGLE Selects a DVD camera angle, if available.

REC (●)

Starts recording. Press repeatedly to set the recording time.

> **REC MODE** Selects the recording mode: HQ, SQ, LQ, or EQ.

TIMER REC Displays Timer Record menu.

CLEAR

Removes a track number on the Program List or a mark on the Marker Search menu.

ZOOM

Enlarges DVD video image. **INSTANT SKIP**

Skips 15 seconds forward on the disc (about the length of a typical TV commercial).

TITI F

Displays the disc's Title menu, if available.

THUMBNAIL

Selects a thumbnail picture for the current title and chapter for use in the Original and Playlist menu.

CHP ADD

Inserts a chapter marker when playing/ recording a VR mode DVD-RW disc.

MARKER

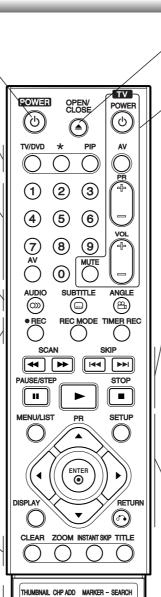
Marks any point during playback.

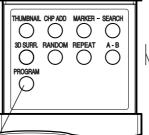
SEARCH

Displays Marker Search menu.

PROGRAM

Add the track to the Program List.





OPEN/CLOSE (▲)

Opens and closes the disc tray.

TV Control Buttons POWER: Turns the TV on or off. AV: Selects the TV's source. PR +/-: Selects TV's channel. VOL +/-: Adjusts TV's volume. MUTE: Temporarily turns TV sound OFF, press again to restore.

SKIP (I◀◀ / ▶►I)

Go to next chapter or track. Returns to beginning of current chapter or track or go to previous chapter or track.

SCAN (◀◀ / ▶►) Search backward or forward.

PAUSE/STEP (II)

Pause playback or recording temporarily, press again to exit pause mode.

(PLAY)

Starts playback.

STOP (■)

Stops playback or recording.

MENU/LIST

Accesses menu on a DVD disc, Title List or Playlist menu.

SETUP

Accesses or removes the Setup menu.

FNTFR

Acknowledges menu selection. -

Displays information while viewing a TV program.

$\triangleleft / \triangleright / \blacktriangle / \lor$ (left/right/up/down) Selects an option in the menu.

PR ▲ / ▼ (up/down)

Scans up or down through memorized channels.

DISPLAY

Accesses On-Screen Display.

RETURN (&)

- Removes the menu.
- Displays the menu of a video CD _

with PBC. 3D SURR.

Selects 3D SURROUND during playback.

RANDOM

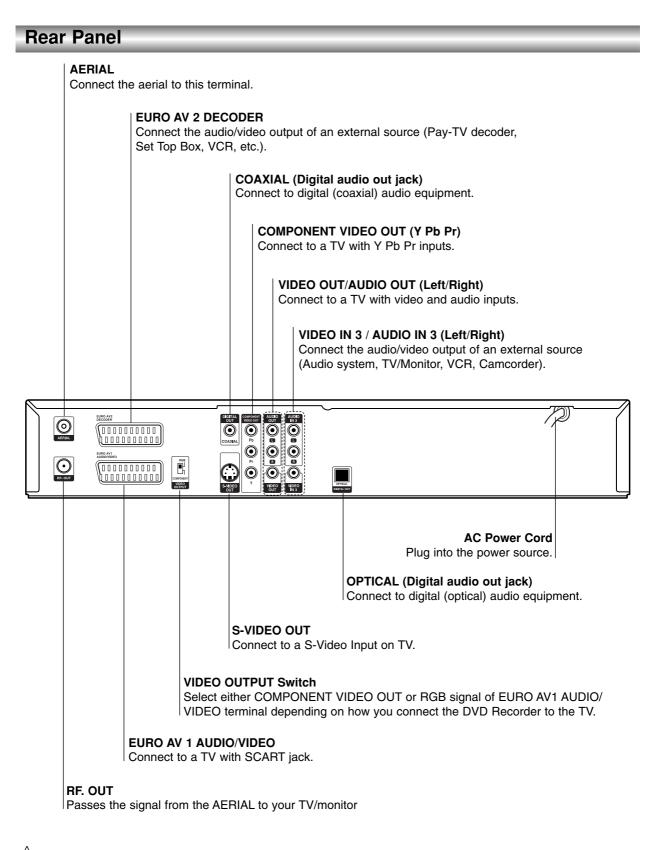
Plays tracks in random order.

REPEAT

Repeat chapter, track, title, all.

A-B

Repeat sequence.



Caution

Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit.

Connections

τ ips

- Depending on your TV and other equipment you wish to connect, there are various ways you could connect the recorder. Use only one of the connections described below.
- Please refer to the manuals of your TV, VCR, Stereo System or other devices as necessary to make the best connections.

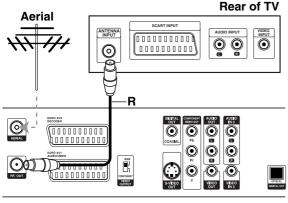
- Make sure the DVD Recorder is connected directly to the TV. Tune the TV to the correct video input channel.
- Do not connect the DVD Recorder's AUDIO OUT jack to the phono in jack (record deck) of your audio system.
- Do not connect your DVD Recorder via your VCR.
 The DVD image could be distorted by the copy protection system.

Connecting to the Aerial

Remove the aerial cable plug from your TV set and insert it into the aerial socket at the back of the DVD recorder. Plug one end of the aerial cable into the TV socket on the DVD recorder and the other end into the aerial input socket on your TV set.

RF coaxial connection

Connect the RF. OUT jack on the DVD Recorder to the aerial input jack on the TV using the 75-ohm Coaxial Cable supplied **(R)**. The RF. OUT jack passes the signal through from the AERIAL jack.



Rear of DVD Recorder

Connections to Your TV

- Make one of the following connections, depending on the capabilities of your existing equipment.
- When using the COMPONENT VIDEO OUT jacks, set the VIDEO OUTPUT switch to COMPONENT.
 When using the SCART jack, set the VIDEO OUT-PUT switch to RGB.

SCART connection

Connect the EURO AV1 AUDIO/VIDEO scart jack on the DVD Recorder to the corresponding in jacks on the TV using the scart cable **(T)**.

Video connection

Connect the VIDEO OUT jack on the DVD Recorder to the video in jack on the TV using the video cable (V).

S-Video connection

Connect the S-VIDEO OUT jack on the DVD Recorder to the S-Video in jack on the TV using the S-Video cable **(S)**.

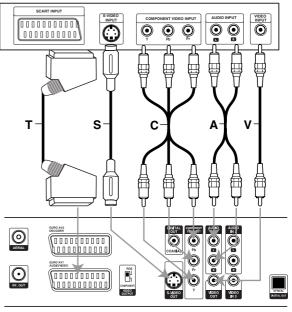
Component Video connection

Connect the COMPONENT VIDEO OUT jacks on the DVD Recorder to the corresponding input jacks on the TV using an Y Pb Pr cable **(C)**.

Audio (Left/Right) Connection

Connect the left and right AUDIO OUT jacks of the DVD Recorder to the audio left and right IN jacks on the TV using the audio cables (A). Do not connect the DVD Recorder's AUDIO OUT jack to the phono in jack (record deck) of your audio system.





Rear of DVD Recorder

Connections (Continued)

Connecting to a cable box or satellite receiver

If you have a cable or satellite receiver with a built-in decoder, connect it to this recorder and your TV as shown on this page. If you are using a separate decoder box for your cable/satellite TV, set up following the instructions on the right.

Using the setup on this page you can:

• Record any channel by selecting it on the cable box/satellite tuner.

Connect RF cables as shown.

This enables you to watch and record TV channels.

2 Use the SCART cable to connect the EURO AV1 AUDIO/VIDEO connector to a SCART AV connector on your TV.

This enables you to watch discs.

Use a SCART cable to connect the EURO AV2 DECODER connector to a SCART AV connector on your satellite/cable box.

This enables you to record scrambled TV channels.

T'ip

This recorder has a 'loop through' function. This feature allows you to record a TV program from the built-in TV tuner in this recorder, while watching a satellite or cable channel (see page 40).

▲ Caution:

16

Do not connect this recorder 'through' your VCR, satellite receiver or cable box. Always connect each component directly to your TV or AV receiver.

Connecting an external decoder box

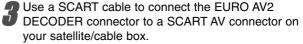
If you have an external,dedicated decoder box for your satellite or cable TV system, use the setup described on this page.

Connect the cable from the aerial/cable TV outlet to the aerial input on your cable/satellite tuner.



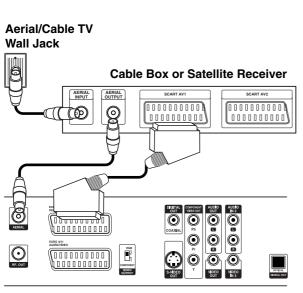
Use a SCART cable to connect your decoder to your cable/satellite tuner.

See the manual for your decoder box for more detailed instructions.

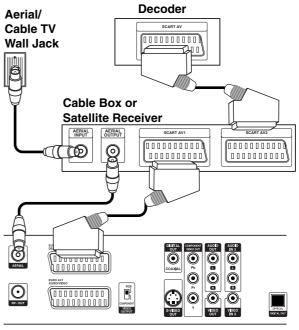


Use the SCART cable to connect the EURO AV1 AUDIO/VIDEO connector to a SCART AV connector on your TV.

- Do not connect your decoder box directly to this recorder.
- Information from the decoder (for example, relating to pay TV services), is only viewable when this recorder is off (in standby).
- For timer recording to work properly on this recorder, the satellite/cable box must also be switched on during recording.
- It is not possible to watch one TV program and record another using this setup.



Rear of DVD Recorder



Rear of DVD Recorder

Connections (Continued)

Connecting to an Amplifier

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

Connect the Left and Right AUDIO OUT jacks on the DVD Recorder to the audio left and right in jacks on your amplifier, receiver, or stereo system, using the audio cables (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 DVD Recorder's DIGITAL AUDIO OUT jacks (OPTICAL O or COAXIAL X) to the corresponding in jack on your amplifier. Use an optional digital (optical O or coaxial X) audio cable.

You will need to activate the recorder's digital output. (See "Audio" on page 24).

T Digital Multi-channel sound

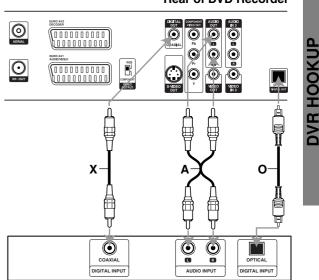
A digital multi-channel connection provides the best sound quality. For this you need a multi-channel Audio/Video receiver that supports one or more of the audio formats supported by your DVD Recorder (MPEG 2, Dolby Digital and DTS). Check the receiver manual and the logos on the front of the receiver.

A Caution:

Due to the DTS Licensing agreement, the digital output will be in DTS digital out when DTS audio stream is selected.

N otes

- If the audio format of the digital output does not match the capabilities of your receiver, the receiver will produce a strong, distorted sound or no sound at all.
- Six Channel Digital Surround Sound via digital connection can only be obtained if your receiver is equipped with a Digital Multi-channel decoder.
- To see the audio format of the current DVD in the onscreen display, press AUDIO.
- This recorder does not perform internal (2 channel) decoding of a DTS sound track. To enjoy DTS multi channel surround, you must connect this recorder to a DTS compatible receiver via one of this recorder's digital audio outputs.



Amplifier (Receiver)





Connections (Continued)

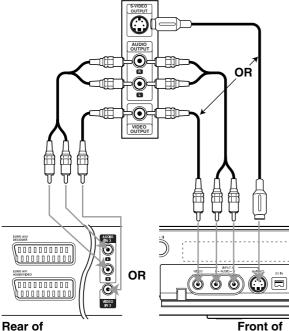
Accessory Audio/Video (A/V) Connections to DVD Recorder

Connect the input jacks (AV3, AV4) on the DVD Recorder to the audio/video out jacks on your accessory component, using audio/video cables.

Note

If you use the S-VIDEO IN jack on the front panel, the VIDEO IN jack on the front panel is not available.

Jack panel of Accessory Component (VCR, Camcorder, etc.)



DVD Recorder

Front of DVD Recorder

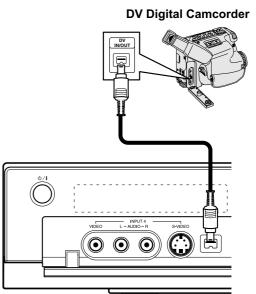
Connecting a Digital Camcorder

Using the front panel DV IN jack, it is possible to connect a DV digital camcorder or video deck or DVD-R/RW recorder and digitally transfer DV tapes or DVD-R/RW discs to DVD-R/RW.

Use a DV cable (not supplied) to connect the DV in/out jack of your DV camcorder/video deck to the front panel DV IN jack of this recorder.

Note

This jack is for connection to DV equipment only. It is not compatible with digital satellite tuners or D-VHS video decks.



Front of DVD Recorder

Initial Settings

In this menu system, there are several ways to customize the settings provided. Most menus consist of three levels to set up the options, but some require greater depth for the variety of settings. If you press SETUP, only the first and second level of the menu system will appear on the TV screen. The third level can be displayed by pressing \blacktriangleright . For navigating the menu levels, you will see " \blacktriangleright " on the right side of the menu label to help you go to the next level.

To bring up and exit the Menu:

Press SETUP to bring up the menu. A second press of SETUP will take you back to initial screen.

To go to the next level:

Press ► on the remote control.

To go back to the previous level: Press ◀ on the remote control.

General Operation

Press SETUP. The Setup menu appears.

D Use \blacktriangle / \blacktriangledown to select the desired option.

While the desired item is selected, press ► to move to the second level.

Use \blacktriangle / \blacktriangledown to select the second desired option.

Press ► to move to the third level.

Use \blacktriangle / \lor to select the desired setting then press ENTER to confirm your selection. Some items require additional steps.

Press SETUP to exit the Setup menu.

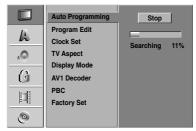
General

Auto Programming

This DVD Recorder is equipped with a frequency synthesized tuner capable of receiving up to 88 TV channels.

Preparation:

• Connect the DVD Recorder to the desired type of aerial, as shown in Connecting to the Aerial on page 15.



Press SETUP.

The Setup menu appears.

Use \blacktriangle / \blacktriangledown to select the General option.

While the General option is selected, press > to move to the second level.

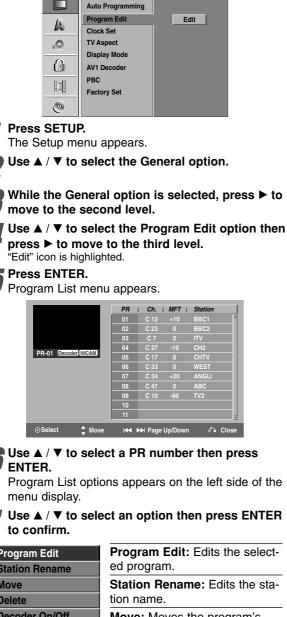
Use \blacktriangle / \triangledown to select the Auto Programming option.

- Fress ► to move to the third level. "Start" icon is highlighted.
- Press ENTER to begin the channel search. The tuner will automatically cycle through all available channels in the area and place them in the tuner's memory.

DVR HOOKUP

Program Edit

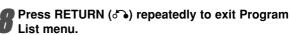
You can edit a channel manually (add, delete, name, move, etc.).



Use \blacktriangle / \triangledown to select an option then press ENTER to confirm.

Program Edit Station Rename	Program Edit: Edits the selected program.	
Move Delete	Station Rename: Edits the sta- tion name.	
Decoder On/Off NICAM Auto/Off	Move: Moves the program's location on the program list.	
	Delete: Deletes the program from program list.	
	Decoder On/Off: Set the decoder for the program to On or Off.	

NICAM Auto/Off: Set the NICAM function to for the program Auto or Off.



Program Edit

You can perform a search to select and store TV channels manually.

- 1. Use ▲ / ▼ to select a program on the Program List menu then press ENTER. Program List options appears on the left side of the Program List menu.
- 2. Use ▲ / ▼ to select 'Program Edit' option from the options then press ENTER. Program Edit menu appears.



3. See the descriptions on below to use Program Edit menu.

 I (left/right): Moves the cursor to the previous or next column.

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

PR: Indicates program number (display only)

Seek: Searches a station automatically. Use ✓ / ► to select Seek option then press ▲ / ▼. Searching stops when the DVD recorder tunes in a station.

Ch.: Changes the channel number to edit. Use ◀ / ► to select Ch. option then press \blacktriangle / \blacktriangledown .

MFT: Changes the frequency for fine tuning. Use \triangleleft / \triangleright to select MFT option then press \blacktriangle / \checkmark .

4. Choose OK then press ENTER to confirm the setting and returns to the Program List menu.



Program Edit (Continued)

Station Rename

You can name stations independently. Names can be up to 5 characters long.

- Use ▲ / ▼ to select a program on the Program List menu then press ENTER. Program List options appears on the left side of the Program List menu.
- Use ▲ / ▼ to select 'Station Rename' option from Program List options then press ENTER. Keyboard menu appears.



- Enter a name for the station. Use ▲ ▼ < ► to select a character then press ENTER to confirm your selection.
 - Alphabet Capital: Switches the keyboard upper case characters.
 - Alphabet Small: Switches the keyboard to lower case characters.
 - Symbols: Switches the keyboard to symbol characters.
 - OK: Select to finish.
 - Cancel: Select to exit the menu.
 - Space: Inserts a space at the cursor position.
 - **Delete:** Deletes the previous character at the cursor position.
 - ✓ / ►: Moves cursor to left or right.

Remote control buttons for entering a name (PLAY): Inserts a space at the cursor position.

- **II** (PAUSE/STEP): Deletes the after character at the cursor position.
- (STOP), CLEAR: Deletes the previous character at the cursor position.

- Numbers (0~9): Enters the character of corresponding location on the selected column.
- MENU/LIST, DISPLAY: Switches the keyboard type (Alphabet Capital, Alphabet Small, Symbols)
- 4. Choose 'OK' icon then press ENTER to fix the name and returns to the Program List menu.

Sort TV channels manually

You can sort the program's position on the Program List menu.

- Use ▲ / ▼ to select a program on the Program List menu then press ENTER. Program List options appears on the left side of the Program List menu.
- 2. Use ▲ / ▼ to select 'Move' option from Program List options then press ENTER.
- Use ▲ / ▼ to select a desired position then press ENTER to store.

Deleting a program

You can delete a program on the Program List menu.

- Use ▲ / ▼ to select a program on the Program List menu then press ENTER. Program List options appears on the left side of the Program List menu.
- 2. Use ▲ / ▼ to select 'Delete' option from Program List options then press ENTER. The Program is deleted.

Setting the Decoder On/Off

 Use ▲ / ▼ to select the program you wish to link with the decoder function on the Program List menu then press ENTER.

Program List options appears on the left side of the Program List menu.

 Use ▲ / ▼ to select 'Decoder On/Off' option from Program List options then press ENTER. If you select On, 'Decoder' appears on the menu screen.

Setting the NICAM Auto/Off

This DVD recorder can receive Hi-Fi sound transmissions in NICAM Stereo. However, if sound distortion occurs, due to poor reception, you can switch Off

- Use ▲ / ▼ to select a program on the Program List menu then press ENTER. Program List options appears on the left side of the Program List menu.
- 2. Use ▲ / ▼ to select 'NICAM Auto/Off' option from Program List options then press ENTER. If you select Auto, 'NICAM' appears on the menu screen.

Auto Clock Set

When Channel auto search is completed the actual Time and Date are also set automatically. If the time in the DVD recorder display is not correct, the clock must be set manually.

	Auto Programming	
/	Program Edit	
	Clock Set	🗸 Auto 🕨
,0	TV Aspect	Manual
	Display Mode	Date /
G	AV1 Decoder	
	PBC	Year
	Factory Set	Time :
0		

Press SETUP.

The Setup menu appears.

Use \blacktriangle / \blacktriangledown to select the General menu.

While the General option is selected, press ► to move to the second level.

Use \blacktriangle / \blacksquare to select the Clock Set option.

Press > to move to the third level.

G Use \blacktriangle / \checkmark to select the Auto option then press ENTER.

Press SETUP to exit the Setup menu.

Note

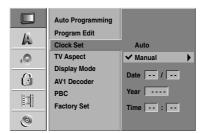
There are cases where the TV station does not send, or sends wrong date and/or time information and the DVD Recorder sets the incorrect time.

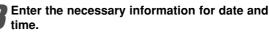
If this happens, we recommend that you set the clock manually.

Manual Clock Set

Follow steps 1-5 as shown above (Auto Clock Set).

2 Use \blacktriangle / \blacktriangledown to select the Manual option then press ENTER.





 \blacktriangleleft / \blacktriangleright (left/right): Moves the cursor to the previous or next column.

 \blacktriangle / \bigtriangledown (up/down): Changes the setting at the current cursor position.

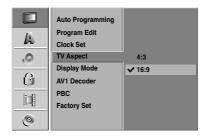


Press ENTER to confirm your setting, then press SETUP to exit the Setup menu.

TV Aspect

You can choose:

- 4:3: Select when a standard 4:3 TV is connected.
- 16:9: Select when a 16:9 wide TV is connected.



Display Mode

Display Mode setting works only when the TV Aspect ratio is set to "4:3".

- You can choose:
- Letter Box: Displays a wide picture with bands on the upper and lower portions of the screen.
- Pan Scan: Automatically displays the wide picture on the entire screen and cuts off the portions that do not fit.

	Auto Programming	
A	Program Edit	
14	Clock Set	
,0	TV Aspect	
	Display Mode	Letter Box
6	AV1 Decoder	✓ Pan Scan
b-4	PBC	
	Factory Set	
0		

AV1 Decoder

We have already described, how to connect a decoder for pay-TV station on page 16. For viewing or recording of an encoded program from EURO AV1 AUDIO/VIDEO connector, you do not have to control anything. You just select AV1 source by pressing AV button and wait shortly until the decoding will start.

Choose 'On' if your recorder is connected with a decoder, otherwise leave it set to 'OFF '.

	Auto Programming	
A	Program Edit	
	Clock Set	
,0	TV Aspect	
	Display Mode	
C I	AV1 Decoder	✓ OFF
1-11	PBC	ON
	Factory Set	
٢		

PBC

The PBC setting can be changed. Set Playback Control (PBC) to ON or OFF.

- ON: Video CDs with PBC are played according to the PBC.
- OFF: Video CDs with PBC are played the same way as Audio CDs.

	Auto Programming	
II.	Program Edit	
A	Clock Set	
.0	TV Aspect	
	Display Mode	
6	AV1 Decoder	
	PBC	OFF
- E-B	Factory Set	✓ ON
٢		

Factory Set

If you need to, you can reset the recorder to all its factory settings. Select 'SET' icon then press ENTER.

Note

Some options can not be reset. (Rating, Password, and Country Code)

	Auto Programming	
1	Program Edit	
12	Clock Set	
,0	TV Aspect	
	Display Mode	
6	AV1 Decoder	
2	PBC	
	Factory Set	SET
٢		

Language

Display Language

Select a language for the Setup menu and on-screen display.

	Display Menu	✓ English
	Disc Menu	Deutsch
In	Disc Audio	Italiano
0,	Disc Subtitle	Español
		Português
(j		Français
目		
٢		

Disc Language

Select a language for the disc's Menu, Audio, and Subtitle.

- Original: The original language set for the disc is selected.
- Other: To select another language, select Other option then press ENTER. Use the numbered and ENTER buttons to key-in the corresponding 4-digit number according to the language code list on page 58. If you a mistake before pressing ENTER, press ◄ repeatedly to delete one by one and correct it.

	Display Menu	✓ Original
A	Disc Menu	English
Li	Disc Audio	French
0,	Disc Subtitle	German
		Spanish
(j		Italian
k-#8		Chinese
E		Polish
0		Other

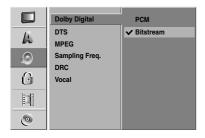
Audio

Each DVD disc has a variety of audio output options. Set the recorder's Audio Output according to the type of audio system you use.

Dolby Digital

PCM: Select when connected to a 2-channel digital stereo amplifier. The DVD Recorder's digital audio outputs sounds in the PCM 2ch format when you play a DVD video disc recorded on the Dolby Digital recording system.

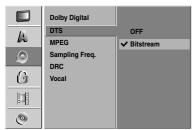
Bitstream: Select "Bitstream" if you connected the DVD Recorder's DIGITAL OUT jack to a Dolby Digital decoder (or an amplifier or other equipment with a Dolby Digital decoder).



DTS

OFF: If you select "OFF", the DTS signal is not output through the DIGITAL OUT jack.

Bitstream: Select "Bitstream" if you connected the DVD Recorder's DIGITAL OUT jack to a DTS decoder (or an amplifier or other equipment with a DTS decoder).



MPEG

PCM: Select when connected to a 2-channel digital stereo amplifier. The DVD Recorder's digital audio outputs sounds in the PCM 2ch format when you play a DVD video disc recorded on the MPEG2 recording system.

Bitstream: Select "Bitstream" if you connected the DVD Recorder's DIGITAL OUT jack to a MPEG decoder (or an amplifier or other equipment with a MPEG decoder).

	Dolby Digital DTS	
-	MPEG	✓ PCM
O	Sampling Freq. DRC	Bitstream
e	Vocal	
	vocal	
٢		

Sampling Frequency

If your receiver or amplifier is NOT capable of handling 96 kHz signals, select 48 kHz. When this choice is made, this unit will automatically convert any 96 kHz signals to 48 kHz so your system can decode them. If your receiver or amplifier is capable of handling 96 kHz signals, select 96 kHz. When this choice is made, this unit will pass each type of signal through without any further processing.

	Dolby Digital	
A	DTS MPEG	
	Sampling Freq.	✔ 48KHz
6	DRC Vocal	96KHz
٢		

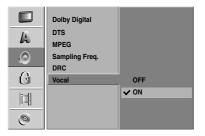
DRC (Dynamic Range Control)

With the DVD format, you can hear a program's soundtrack in the most accurate and realistic presentation possible, thanks to digital audio technology. However, you may wish to compress the dynamic range of the audio output (the difference between the loudest sounds and the quietest ones). Then, you may listen to a movie at a lower volume without losing clarity of sound. Set DRC to ON for this effect.

A 0	Dolby Digital DTS MPEG Sampling Freq.	
0	DRC	✓ OFF
Ø	Vocal	ON
٢		

Vocal

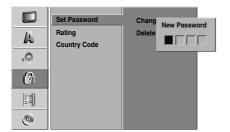
Set Vocal to ON only when a multi-channel karaoke DVD is playing. The karaoke channels on the disc will mix into normal stereo sound.



Lock (Parental Control)

Set Password

Changing the 4-digit code



Press SETUP.

The Setup menu appears.

Use \blacktriangle / \blacktriangledown to select the Lock option.

While the Lock option is selected, press > to move to the second level.

Use \blacktriangle / \blacktriangledown to select the Set Password option.

Press ► to move to the third level.

When you have not entered a password yet;

Enter a 4-digit password using the numbered buttons to create a personal 4-digit security password, then press ENTER. Enter the 4-digit password again and press ENTER to verify.

When you have already entered a password; Enter a 4-digit password using the numbered buttons to confirm the personal 4-digit security password, then press ENTER.

$|T|_{ip}$

If you make a mistake before pressing ENTER, press ◄ repeatedly to delete password numbers one by one then correct it.



While "Change" is selected, press ENTER. If you select "Delete" then press ENTER. The pass-

word is deleted.

Enter a 4-digit password using the numbered buttons to create a personal 4-digit security password then press ENTER.

Enter the 4-digit password again and press ENTER to verify.

$\mathcal{T}_{\mathsf{ip}}$

If you a mistake before pressing ENTER, press ◄ repeatedly to delete password numbers one by one then correct it.

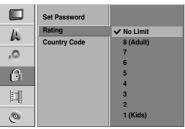
If you forget your 4-digit code

If you forget your password, to clear the current password, follow the procedure below.

- 1. Press SETUP to display the Setup menu.
- 2. Use the Number buttons to enter the 6-digit number "210499".
- Select "Yes" then press ENTER. The 4-digit password is cleared. Enter a new code as shown left.

Rating

Movies on DVDs may contain scenes not suitable for children. Therefore, discs may contain Parental Control information that applies to the complete disc or to certain scenes on the disc. These scenes are rated from Level 1 to 8, and alternatively, more suitable scenes are available for selection on some discs. Ratings are country-dependent. The Parental Control feature allows you to prevent discs from being played by your children or to have certain discs played with alternative scenes.



Follow steps 1-3 as shown above to the left (Set Password).

D Use \blacktriangle / \blacktriangledown to select the Rating option.

Press ► to move to the third level.

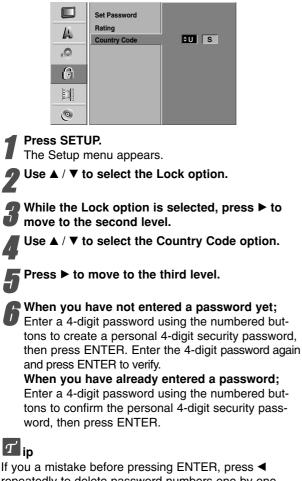
Follow step 6 as shown above to the left (Set Password).

Select a rating from 1 to 8 using the \blacktriangle / \checkmark buttons. One (1) has the least playback restrictions. Eight (8) has the most playback restrictions. No Limit: If you select No Limit, Parental Control is not active. The disc will play in full. Level 1 to 8: Some discs contain scenes not suitable for children. If you set a rating for the recorder, all disc scenes with the same rating or lower will be played. Higher rated scenes will not be played unless an alternative scene is available on the disc. The alternative must have the same rating or a lower one. If no suitable alternative is found, playback will stop. You must enter the 4-digit password or change the rating level in order to play the disc.

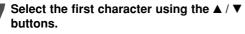
Press ENTER to confirm your rating selection, then press SETUP to exit the menu.

Country Code

Enter the code of a country/area whose standards were used to rate the DVD video disc, referring to the list (See "Country Code List", page 59.).



If you a mistake before pressing ENTER, press repeatedly to delete password numbers one by one then correct it.



Shift the cursor using ► buttons and select the second character using ▲ / ▼ buttons.

Press ENTER to confirm your country code selection, then press SETUP to exit the menu.

Recording

Record Mode Set

You can set the picture quality for recording; HQ (High Quality), SQ (Standard Quality), LQ (Low Quality), EQ (Extend Quality).

	Rec Mode Set	EQ
4	Rec Aspect	LQ
	DV Rec Audio	✓ SQ
0,	TV Rec Audio	HQ
	Auto Chapter	
G		
E 1		
۲		

Press SETUP.

The Setup menu appears.

Use \blacktriangle / \triangledown to select the Recording option.

While the Recording option is selected, press ► to move to the second level.

Use \blacktriangle / \blacktriangledown to select the Rec Mode Set option.



Press \blacktriangleright to move to the third level.

G Use \blacktriangle / \bigtriangledown to select a desired Record Mode (HQ, SQ, LQ or EQ)

Press ENTER to confirm your selection, then press SETUP to exit the menu.

Record Aspect

When recording, you can set the recording aspect ratio to suit the material you're recording (16:9 widescreen, or 4:3 standard).

	Rec Mode Set	
4	Rec Aspect	√ 4:3
	DV Rec Audio	16:9
0,	TV Rec Audio	
	Auto Chapter	
6		
E 8		
0		

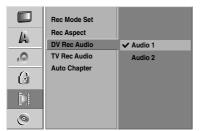
DV Rec Audio

You need to set this if you have a camcorder using 32kHz/12-bit sound connected to the front panel DV IN jack.

Some digital camcorders have two stereo tracks for audio. One is recorded at the time of shooting; the other is for overdubbing after shooting.

On the Audio 1 setting, the sound that was recorded while shooting is used.

On the Audio 2 setting, the overdubbed sound is used.



TV Rec Audio

When TV recording with bilingual, you can choose audio channel to record.

Main+Sub: Main language and Sub language Main: Main language only Sub: Sub language only

	Rec Mode Set	
A	Rec Aspect DV Rec Audio	
.0	TV Rec Audio	✓ Main+Sub
0	Auto Chapter	Main
6		Sub
٢		

Auto Chapter

When recording, chapter markers are put in specified setting. You can change this interval to 5 minutes, 10 minutes, or 15 minutes. If you select None, switch off automatic chapter marking altogether with the No Separation setting.

	Rec Mode Set	
A	Rec Aspect DV Rec Audio	
0,	TV Rec Audio	
	Auto Chapter	✓ None
6		5 Min
		•
E-1		10 Min

Disc

Disc Format

If you load a completely blank disc, the recorder will initialize the disc.

DVD-R: The recorder initialize the disc to Video mode. The recording mode will always be Video mode.

DVD-RW: The recorder initialize the disc to VR mode. **DVD+R:** The Initialize menu will appears. Select "Yes" then press ENTER.

DVD+RW: The recorder initialize the disc to DVD+RW mode.

Also, you can format the disc from the Setup menu as below.



Press SETUP.

The Setup menu appears.



While the Disc option is selected, press ► to move to the second level.

Use \blacktriangle / \blacktriangledown to select the Disc Format option.

Press ► to move to the third level.

Start icon is highlighted.

Press ENTER.

Disc Format menu appears.

In case of DVD-RW, use ◀ / ► to select a desired Disc Format Mode (VR Mode or Video Mode) then press ENTER.

In case of DVD+RW, go to step 8.



Use ◀ / ► to select "Ok" then press ENTER. It takes a few moments to format the disc.

Disc Format
All data on the disc will be deleted.
Proceed?
Ok Cancel

If you want to change the disc format, everything recorded on the disc will be erased.



Finalize

Finalizing 'fixes' the recordings in place so that the disc can be played on a regular DVD player or computer equipped with a suitable DVD-ROM drive.

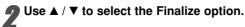
Finalizing a Video mode disc creates a menu screen for navigating the disc. This is accessed by pressing MENU/LIST or TITLE.

A Caution

 When DVD-R, DVD-RW, and DVD+R recording, you've finalized a disc recording, you can't edit or record anything else on that disc except DVD+RW.

	Disc Format	
1	Finalize	Finalize
	Disc Label	
.0	Disc Protect	
0		
텤		
٢		

Follow steps 1-3 as shown on page 27 (Disc Format).







Select Ok then press ENTER.

U The recorder starts finalizing the disc.

Note

How long finalization takes depends on the type of disc, how much is recorded on the disc, and the number of titles on the disc. A disc recorded can take up to 8 minutes or more to finalize.

$T_{\rm ip}$

If you load a DVD-RW or DVD+RW that has already been finalized, you can 'unfinalize' it by choosing Unfinalize from the Finalize menu. After doing this, you can edit and re-record onto the disc.

Disc Label

Use this to enter a name for the disc. This name appears when you load the disc and when you display disc information on-screen.

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

	Disc Format	
A	Finalize	
	Disc Label	Edit
0,	Disc Protect	
6		
٢		

Follow steps 1-3 as shown Disc Format on page 27.

Use \blacktriangle / \blacktriangledown to select the Disc Label option.



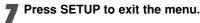
Press ENTER.

Keyboard menu appears.

DVD-RW
Alphabet Capital > 6 (1.6)
1 2 3 4 5 6 7 8 9 0
A B C D E F G H I J
K L M N O P Q R S T
U V W X Y Z ' Æ Ç Ð
` ○ ´ ̄ ^ ∅ ▷ « »
OK Cancel Space Delete

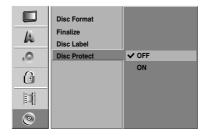
Enter a name for the disc. Use ▲ ▼ ◀ ► to select a character then press ENTER to confirm your selection. Refer step 3 as shown on page 21 (Station Rename).

Choose OK then press ENTER to fix the name and return to the Setup menu.



Disc Protect

When recording in DVD+RW / +R disc or VR mode formatted DVD-RW disc, set to ON to prevent accidental recording, editing or deleting of the disc loaded. If you need to unlock the disc to make edits, select OFF.





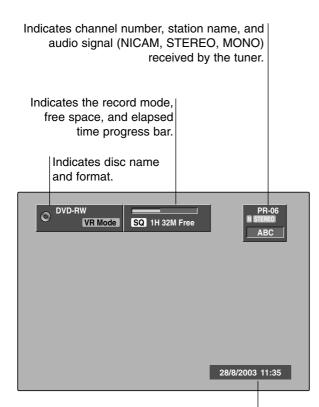
General Explanation of On-Screen Display

This manual gives basic instructions for operating the DVD Recorder. Some DVDs require specific operation or allow only limited operation during playback. When this occurs, the symbol \bigotimes appears on the TV screen, indicating that the operation is not permitted by the DVD Recorder or is not available on the disc.

Displaying Information While Watching TV

During viewing the TV, press ENTER or DISPLAY to display/remove the information displayed on-screen.

e.g., when DVD-RW in VR mode is inserted.



Indicates current date and time.

Displaying Disc Information on-screen

You can display various information about the disc loaded on-screen.

- Press DISPLAY repeatedly to display/change the information displayed on-screen.
- **2** To remove the on-screen display, press DISPLAY repeatedly until it disappears. See the descriptions on next pages for detailed explanation during playing a disc.

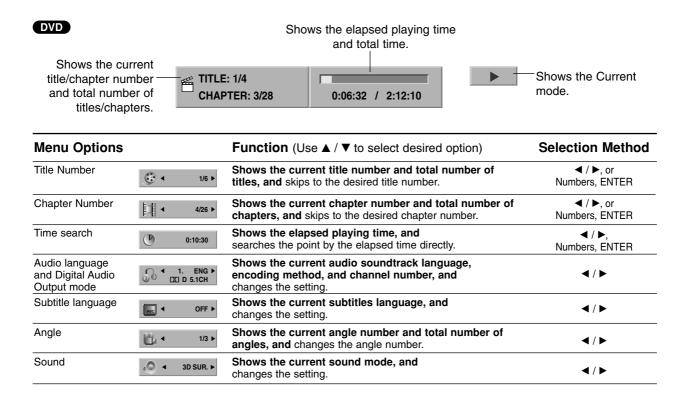
Temporary Feedback Field Icons

- Resume play from this point
- S Action prohibited or not available

Notes

- Some discs may not provide all of the features on the on-screen display example shown on next pages.
- If no button is pressed for 20 seconds, the on-screen display disappears.

Displaying Disc Information on-screen (Continued)



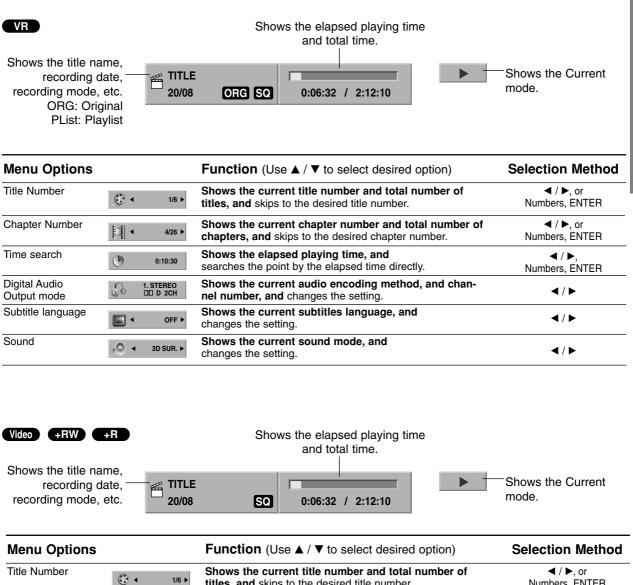
VCD

Shows the elapsed playing time and total time.

Shows the current track			
number and total number — of tracks, or shows PBC On mode.	🛱 TRACK : 1/17	0:06:32 / 1:00:00	Shows the Current mode.

Menu Options			Function (Use \blacktriangle / \blacktriangledown to select desired option)	Selection Method
Track Number	•	1/4 ►	Shows the current track number and total number of tracks or PBC On mode, and skip to the desired track number.	✓ / ►, or Numbers, ENTER
Time	\mathbb{O}	0:10:30	Shows the elapsed playing time (Display only).	
Audio Channel	- •6	STEREO ►	Shows the audio channel, and changes the audio channel.	≻</td
Sound	•	3D SUR. ►	Shows the current sound mode, and changes the setting.	▶</td

Displaying Disc Information on-screen (Continued)



Title Number	€ 4 1/6 ►	Shows the current title number and total number of titles, and skips to the desired title number.	✓ / ►, or Numbers, ENTER
Chapter Number	4/26 ►	Shows the current chapter number and total number of chapters, and skips to the desired chapter number.	◀ / ►, or Numbers, ENTER
Time search	0:10:30	Shows the elapsed playing time, and searches the point by the elapsed time directly.	✓ / ▶,Numbers, ENTER
Digital Audio Output mode	1. STEREO	Shows the current audio encoding method, and chan- nel number, and changes the setting.	◀ / ►
Subtitle language	(← OFF ►	Shows the current subtitles language, and changes the setting.	◀ / ►
Angle (Video Mode only)	1/1	Shows the current angle number and total number of angles, and changes the angle number.	◀ / ►
Sound		Shows the current sound mode, and changes the setting.	◀ / ►

Operation with DVD and Video CD

Playing a DVD or Video CD

T Playback Setup

- Turn the TV on and select the video input source connected to the DVD Recorder.
- Audio system: Turn the audio system on and select the input source connected to the DVD Recorder.

Press OPEN/CLOSE (\triangleq) to open the disc tray.

2 Load your chosen disc in the tray, with the playback side down.

Press OPEN/CLOSE (▲) to close the tray.

READING appears on the display window, and playback starts automatically. If playback does not start, press (PLAY). In some cases, the disc menu might appear instead.

T'_{ip}

If a menu screen is displayed

The menu screen may be displayed first after loading a DVD or Video CD which contains a menu.

DVD

Use the ◀ ► ▲ ▼ buttons to select the title/chapter you want to view, then press ENTER to start playback. Press TITLE or MENU/LIST to return to the menu screen.

VCD

• Use the number buttons to select the track you want to view.

Press RETURN (3) to return to the menu screen.

• Menu setting and the exact operating procedures for using the menu may differ depending on the disc. Follow the instructions on the each menu screen. You may also set PBC to OFF under Setup menu. See page 23.

Notes

- If Parental Control is set and the disc is not within the Rating settings (not authorized), the 4-digit code must be entered and/or the disc must be authorized (see "Rating", on page 25).
- DVDs may have a Region Code.
 Your recorder will not play discs that have a region code different from your recorder. The region code for this recorder is 2 (two).

General Features

Note

Unless stated otherwise, all operations described use the remote control. Some features may also be available on the Setup menu.

Moving to another TITLE C 1/6 Moving to another TITLE

When a disc has more than one title, you can move to another title as follows:

Press DISPLAY then use ▲ / ▼ to select the title icon. Then, press the appropriate numbered button (0-9) or ◄ / ► to select a title number.

Moving to another CHAPTER/TRACK



When a title on a disc has more than one chapter/track, you can move to another chapter/track as follows:

- Press SKIP (I ← or ►►I) briefly during playback to select the next chapter/track or to return to the beginning of the current chapter/track.
- Press SKIP (I<<) twice briefly to step back to the previous chapter/track.
- To go directly to any chapter/track during playback, press DISPLAY. Then, use ▲ / ▼ to select chapter icon (or for a Video CD, select track icon). Then, enter the chapter/track number using the numbered buttons (0-9) or press ◄ / ►.

Search

DVD Video VR +RW +R VCD

- 1 Press SCAN (◀◀ or ►►) during playback. The recorder will now go into SEARCH mode.
- 2 Press SCAN (◄ or ►) to select the required speed:
 (Reverse play), <<X2, <<X4, <<X8,
 <X16, <<X100 (backward) or ► X2, ► X4,
 ► X8, ► X16, ► X100 (forward). With a Video CD, the Search speed changes: <<X2,
 <X4, <<X8 (backward) or ► X2, ► X4, ► X8 (forward).
- 3 To exit SEARCH mode, press ► (PLAY).

Still Picture and Frame-by-Frame Playback

- 1 Press PAUSE/STEP (III) during playback. The recorder will now go into PAUSE mode.
- 2 You can advance or back up the picture frame-byframe by pressing ◀ / ► repeatedly during PAUSE mode.
- 3 To exit PAUSE mode, press ► (PLAY).

N ote

The picture frame-by-frame in reverse is not available for Video CD.

\overline{T} ip

You can advance the picture frame-by-frame by pressing PAUSE/STEP (II) repeatedly on the remote control.



Operation with DVD and Video CD (Continued)

General Features (Continued)

Slow Motion

DVD Video VR +RW +R VCD

- 1 Press PAUSE/STEP (II) during playback. The recorder will now go into PAUSE mode.
- 2 Press SCAN (◀◀ or ►►) during PAUSE mode. The DVD Recorder will enter SLOW mode.
- 3 Use the SCAN (◄< or ►►) to select the required speed: ◄I 1/16, ◄I 1/8, ◄I 1/4, or ◄I 1/2 (backward), or I► 1/16, I► 1/8, I► 1/4, or I► 1/2 (forward). With a Video CD, the Slow speed changes: I► 1/8, I► 1/4 or I► 1/2 (forward).
- 4 To exit Slow Motion mode, press ► (PLAY).

Note

Slow motion playback in reverse is not possible with Video CDs.

Random Karaoke DVD VCD

- 1 Press RANDOM during playback. The unit automatically begins Random Playback and "RANDOM" appears on the TV screen.
- **2** To return to normal playback, press RANDOM until "NORMAL" appears on the TV screen.

T_{ip}

By pressing SKIP ►► during Random playback, the unit selects another title (track) and resumes Random playback.

Note

- This function only works with DVD Karaoke discs or video CDs without PBC.
- On a Video CD with PBC, you must set PBC to OFF in the Setup menu to use the Random function. See page 23.

Repeat Chapter DVD Video VR +RW +R

DVD Discs - Repeat Chapter/Title/All/Off

Press REPEAT to select a desired repeat mode.

- Chapter: repeats the current chapter.
- Title: repeats the current title .
- All: repeats the all titles on the disc. (VR mode DVD-RW disc only)
- OFF: does not play repeatedly.

Video CDs - Repeat Track/All/Off

Press REPEAT to select a desired repeat mode.

- Track: repeats the current track.
 - All: repeats the all tracks on the disc.
 - OFF: does not play repeatedly.

N ote

On a Video CD with PBC, you must set PBC to OFF in the Setup menu to use the Repeat function. See page 23.



DVD Video VR +RW +R VCD

To repeat a sequence in a title:

- 1 Press A-B at your chosen starting point. Repeat icon and 'A-' appears on the TV screen.
- 2 Press A-B again at your chosen end point. Repeat icon and 'A-B' appears on the TV screen, and the repeat sequence begins.
- **3** To cancel the sequence, press A-B repeatedly to select OFF.

Time Search (b) 0:10:30 (DVD) Video (VR) (+RW) (+R)

The Time Search function allows you to start playing at any chosen time on the disc.

- 1 Press DISPLAY twice during playback. The on-screen display appears on the TV screen. The Time Search box shows the elapsed playing time of the current disc.
- 2 Within 20 seconds, use ▲ / ▼ to select the Time Search icon in the on-screen display. The "0:00:00" appears in the Time Search box.
- **3** Within 20 seconds, use the number buttons to enter the required start time. Enter hours, minutes, and seconds from left to right in the box. You can not enter an invalid time.

If you enter the wrong numbers, press \blacktriangleleft / \triangleright to move the under bar (_) to the wrong number. Then enter the correct numbers.

4 Within 20 seconds, press ENTER to confirm the start time.

Playback starts from the selected time on the disc.

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Operation with DVD and Video CD (Continued)

General Features (continued)

Zoom

DVD Video VR +RW +R VCD

The Zoom function allows you to enlarge the video image and to move through the enlarged image.

- Press ZOOM during playback or still playback to activate the Zoom function. Each press of the ZOOM button changes the TV screen in the sequence shown below.
 x1 size → x2 size → x4 size → x1 size (normal size)
- 2 Use the ◀ ► ▲ ▼ buttons to move through the zoomed picture.
- **3** To resume normal playback, press CLEAR or press ZOOM repeatedly until the normal picture appears.

Note

The zoom function may not work for some DVDs.



You can start playback from a memorized point. Up to six points can be memorized.

To enter a mark, follow these steps.

 During disc playback, press MARKER when playback reaches the spot that you want to memorize.

The Marker icon will appear on the TV screen briefly.

2 Repeat step 1 to enter up to six Marker points on a disc.

To Recall a Marked Scene

- 1 During disc playback, press SEARCH. The Marker Search menu will appear on the TV screen.
- 2 Use the ◀ ► ▲ ▼ buttons to select a Marked scene that you want to recall.
- 3 Press ENTER.
- Playback will start from the Marked scene. 4 To remove the Marker Search menu, press
- RETURN (🔊).



To clear a Marked Scene

- 1 Press SEARCH during playback or in stop mode. The Marker Search menu will appear on the TV screen.
- 2 Use ◀ ► ▲ ▼ to select the Marked scene that you want to erase.

- **3** Press CLEAR. "Delete selected marker? Proceed?" message appears.
- 4 Use ◀ / ► to select "Yes" then press ENTER.
- 5 Repeat steps 2-4 to erase additional Marked scene.
- 6 To remove the Marker Search menu, press RETURN (♂).

Checking the Contents of DVD Video Discs: Menus

DVDs may contain menus that allow you to access special features. To open the disc menu, press MENU/LIST. Then, press the appropriate number button to select an option. Or, use the $\blacktriangleleft \blacktriangleright \blacktriangle$ buttons to highlight your selection, then press ENTER.

Title Menu DVD

1 Press TITLE.

If the current title has a menu, the menu will appear on the TV screen. Otherwise, the disc menu may appear.

2 The menu may contain camera angles, spoken language and subtitle options, and chapters for the title.

Disc Menu DVD

- 1 Press MENU/LIST.
- The disc menu is displayed.
- 2 To remove the disc menu, press MENU/LIST again.

Camera Angle 🔐 🗤 🗤 DVD

If the disc contains scenes recorded at different camera angles, you can change to a different camera angle during playback.

- Press ANGLE then press ◀ / ► repeatedly during playback to select a desired angle.
- The number of the current angle appears on the TV screen.



The ANGLE indicator will blink on the TV screen at scenes recorded at different angles to indicate that angle switching is possible.

Changing the Audio Soundtrack

I. ENG ► DC D 5.1CH

Press AUDIO then press \blacktriangleleft / \blacktriangleright repeatedly during playback to hear a different audio language or audio soundtrack if available.



Some discs feature both Dolby Digital and DTS soundtracks. There is no analog audio output when DTS is selected. To listen to the DTS soundtrack, connect this recorder to a DTS decoder via one of the digital outputs. See page 17 for connection details.



Operation with DVD and Video CD (Continued)

Changing the Audio Channel

STEREO ►

VCD Video VR +RW +R

With a Video CD, press AUDIO then press ◀ / ► repeatedly during playback to hear a different audio channel (STEREO, LEFT or RIGHT).

With DVD-RW discs recorded in VR mode that have both a main and a Bilingual audio channel, you can switch between Main (L), Bilingual (R), or a mix of both (Main + Bilingual) by pressing AUDIO.



This unit can produce a 3D Surround effect, which simulates multi-channel audio playback from two conventional stereo speakers, instead of the five or more speakers normally required to listen to multichannel audio from a home theater system.

- 1 Press 3D SURR. then press ◀ / ► repeatedly during playback to select "3D SUR.".
- 2 To turn off the 3D Surround effect, select "NORMAL".



Press SUBTITLE then press \triangleleft / \blacktriangleright repeatedly during playback to see the different subtitle languages.

Instant Skip

DVD Video VR +RW +R

Each press INSTANT SKIP skips forward 15 seconds.

Note

If \odot appears, the feature is not available on the disc.

Finding Locations on a Disc VCD

You can directly access any point on a video CD using this function. Use this function only while a video CD is playing. Playback jumps to the point specified.

- 1 Press SEARCH during playback. The progress bar appears on the TV screen.
- **2** Use \triangleleft / \blacktriangleright to find a start position for playback.
- **3** Press ENTER to confirm the selected position. Playback starts from the selected position.

Note

This function works only when no marker is memorized.

Last Condition Memory DVD Video VR +RW +R

This recorder memorizes the user settings for the last disc that you have viewed. Settings remain in memory even if you remove the disc from the recorder or switch off the recorder. If you load a disc that had its settings memorized, the latest stop position is automatically recalled.

PLAYBACK

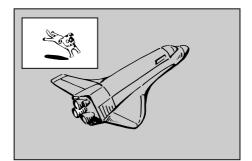
N otes

- Settings are stored in memory for use any time.
- This recorder does not memorize settings of a disc if you switch off the recorder before commencing to play it.

PIP (Picture in Picture)



This function enables you to view the stored stations in sub picture during playback.



On and off

Press PIP to switch on the sub picture, press this button again to switch it off.

Input mode selection for sub picture

Press AV to select the input mode for the sub picture. Each time this button is pressed, each input mode for the sub picture is displayed as shown below. Tuner $\rightarrow AV1 \rightarrow AV2 \rightarrow AV3 \rightarrow AV4$

Program selection for sub picture

Use \blacktriangle / \bigtriangledown to change the program when sub picture's input is set to tuner. The selected program number is displayed on the TV screen. You can view the selected program by pressing STOP (\blacksquare).

Sub picture position change

Press ◀ / ► repeatedly until desired position is achieved. The sub picture moves clockwise or counterclockwise.

Zoom Sub picture

Press ZOOM repeatedly to enlarge the sub picture, the magnification level increases up to three steps.



Audio CD and MP3 Operation

Playing an Audio CD or MP3 Disc

CD MP3

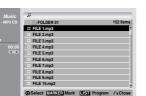
The DVD Recorder can play audio CDs. Also, the DVD Recorder can play MP3 formatted recordings on CD-ROM, CD-R or CD-RW disc.

Before playing MP3 recordings, read the notes on MP3 Recordings on page 37.

Insert a disc and close the tray.

AUDIO CD or MP3 CD menu appears on the TV screen.





AUDIO CD Menu

MP3 CD Menu

Use \blacktriangle / \blacktriangledown to select a track then press ► (PLAY).

Playback starts.

During playback, the current track's elapsed playing time will appear on the display window and menu. Playback will stop at the end of the disc.

T ips

- You can view TV channel or video input source by pressing AV. If you want to return to the Music menu, press MENU/LIST.
- You can switch between the Track List and Program List menus by pressing MENU/LIST.
- On the Music-MP3 CD menu, press SCAN (or \rightarrow) to move to the previous or next page.
- On CDs with mixed content (audio tracks, MP3 files and JPEG files), you can select among the Music-Audio CD menu, Music-MP3 CD menu, and Photo CD menu by pressing TITLE repeated-Iv.

To stop playback at any other time, press STOP (■).

Music menu options

- 1. To display menu options, select a tack (or folder) on the menu then press ENTER.
- 2. Use ▲ / ▼ to select an option then press ENTER to confirm your selection.

Music-Audio CD menu options CD

Play **Program Add** Play: Starts playback the selected track.

Program Add: Adds the track(s) to Program List. (page 38)

Music-MP3 CD menu options MP3

· When you select a track.

Play	Play: Starts playback the selected track.
Program Add	Program Add: Adds the track(s) to
Folder	Program List. (page 38)
View All	Folder: Displays the folder list on the disc.
	View All: Displays all MP3 files on the disc.

· When you select a folder.

Open	Open: Displays sub-folders and	
	MP3 files only in the folder.	
Program Add	Program Add: Adds all track(s) in	
Folder	the folder to Program List. (page 38)	
View All	Folder: Displays the folder list on the disc.	
	View All: Displays all MP3 files on the disc.	

Audio CD and MP3 Operation (Continued)

Pause CD MP3

- 1 Press PAUSE/STEP (II) during playback.
- 2 To return to playback, press ► (PLAY) or press PAUSE/STEP (II) again.

Moving to Another Track CD MP3

- Press SKIP I or bit briefly during playback to go to the next track or to return to the beginning of the current track.
- Press SKIP I twice briefly to step back to the previous track.
- On an Audio CD, to go directly to any track, enter the track number using the numbered buttons (0-9) during playback on the Track List.

Repeat Track/All(Folder)/Off CD MP3

Press REPEAT to select a desired repeat mode.

- TRACK: repeats the current track.
- · ALL (CD): repeats the all tracks on the disc.
- FOLDER (MP3): repeats the all tracks in the current folder.
- · OFF (No display): does not play repeatedly.

Random CD MP3

- 1 Press RANDOM during playback or in stop mode. The unit automatically begins Random Playback and "RANDOM" appears on the menu screen.
- 2 To return to normal playback, press RANDOM repeatedly until "RANDOM" disappears from the menu screen.

\overline{T}_{ip}

By pressing SKIP ►► during Random playback, the unit selects another track and resumes Random playback.

3D Surround CD MP3

This unit can produce a 3D Surround effect, which simulates multi-channel audio playback from two conventional stereo speakers, instead of the five or more speakers normally required to listen to multichannel audio from a home theater system.

- 1 Press 3D SURR. during playback to select "3D SUR".
- **2** To turn off the 3D Surround effect, press 3D SURR. until "3D SUR" disappears from the menu screen.

Changing the Audio Channel

CD MP3

Press AUDIO repeatedly to hear a different audio channel (stereo, left or right).

Search CD

- 1 Press SCAN (◀◀ or ►►) during playback. The recorder will now go into SEARCH mode.
- 2 Press SCAN (◄ or ►) to select the required speed: ◄ X2, ◄ X4, ◄ X8 (backward) or ► X2, ► X4, ► X8 (forward).
 Search speed and direction are indicated on the menu screen.
- 3 To exit SEARCH mode, press ► (PLAY).

Repeat A-B CD

To repeat a sequence in a track:

- 1 Press A-B at your chosen start point. Repeat icon and 'A' appears on the menu screen.
- 2 Press A-B again at your chosen end point. The Repeat icon and 'A - B' appears on the menu screen, and the repeat sequence begins.
- **3** To exit the sequence and return to normal play, press A-B again.

The Repeat icon disappears from the menu screen.

Notes on MP3 Recordings

About MP3

- An MP3 file is audio data compressed by using the MPEG1 audio layer-3 file-coding scheme. We call files that have the ".mp3" file extension "MP3 files".
- The recorder can not read an MP3 file that has a file extension other than ".mp3".

MP3 Disc compatibility with this recorder is limited as follows:

- 1. CD-R physical format should be "ISO 9660" and "JOLIET".
- If you record MP3 files using the software which cannot create a FILE SYSTEM, for example "Direct-CD" etc., it is impossible to playback MP3 files. We recommend that you use "Easy-CD Creator", which creates an ISO9660 or JOLIET file system.
- 3. Total number of files and folders on the disc should be less than 999.

This DVD Recorder requires discs/recordings to meet certain technical standards in order to achieve optimal playback quality. Pre-recorded DVDs are automatically set to these standards. There are many different types of recordable disc formats (including CD-R containing MP3 files) that require certain pre-existing conditions (see above) to insure compatible playback.

Customers should also note that permission is required in order to download MP3 files and music from the Internet. Our company has no right to grant such permission. Permission should always be sought from the copyright owner.

37)

Programmed Playback with Audio CD and MP3

The Program function enables you to store your favorite tracks from any disc in the recorder memory. Program can contain 99 tracks (Audio CD) or 256 tracks (MP3).

Insert an Audio CD or MP3 disc. Audio CD or MP3 CD menu will appear.

Use \blacktriangle / \blacktriangledown to select a track (or folder).

T Selecting multiple tracks (folders)

- Press MARKER. A check mark appears on the track or folder. Press MARKER again to cancel the marked track or folder.
- 2. Repeat step 1 to mark additional tracks (folders).

Press ENTER.

The options appear on the left side of the menu.

Use \blacktriangle / \blacktriangledown to select the "Program Add" option then press ENTER.

Repeat steps 2-4 to place additional tracks on the Program list.

Press MENU/LIST to display Program List menu. You can switch between the Track List and Program List menus by pressing MENU/LIST.

lusic	<i>s</i>		Music	а 1	
dio CD	Title	Duration	- MP3 CD	↓ Program List	152 Item
	TRACK 5	04:24		FILE 20.mp3	
	TRACK 2	04:01		FILE 3.mp3	
	TRACK 8	04:09		FILE 9.mp3	
i2:16	TRACK 4	03:30	00:00	FILE 2.mp3	
9.6	TRACK 1	04:47	10.00	FILE 14.mp3	
	TRACK 10	04:11		FILE 8.mp3	
	TRACK 7	03:48		FILE 5.mp3	
	TRACK 6	05:01		FILE 10.mp3	
	TRACK 3	03:01		FILE 13.mp3	
	TRACK 9	05:10 🗸		FILE 7.mp3	

Use \blacktriangle / \blacktriangledown to select the track you want to start playing on the Program List menu.

Т_{ір}

On the Music-MP3 CD menu, press SCAN (◀◀ or ►►) to move to the previous or next page.

Press ► (PLAY).

Playback begins in the order in which you programmed the tracks. Playback stops after playing the last programmed

track on the Program List.

Program List menu options CD MP3

- To display menu options, select a tack on the Program List menu then press ENTER. The menu options appear on the left side of the menu.
- Use ▲ / ▼ to select an option then press ENTER to confirm your selection.

Play	Play: Playback begins in the order in which you programmed the tracks from the selected track.	
Move		
Delete	Move: Moves the track(s) to change the program order.	
Delete All	Delete: Deletes the track(s) from the Program List menu.	
	Delete All: Deletes all tracks from the Program List menu.	

Repeat Programmed Tracks

Press REPEAT repeatedly during playback to select a desired repeat mode.

- TRACK: repeats the current track.
- ALL : repeats the all tracks on the Program list.
- · OFF (No display): does not play repeatedly.

Erasing a Track from the Program List

1. Select the track you wish to erase from the Program List.

T'_{ip}

- Use the MARKER button to select multiple tracks.
- Press ENTER. The menu options appear on the left side of the menu.
- Select 'Delete' option then press ENTER. The selected track is deleted from the Program List.



Use "Delete All" option to delete all tracks.

Changing Track Order in the Program List

1. Select the track you wish to move.

T'_{ip}

Use the MARKER button to select multiple tracks.

- Press ENTER. The menu options appear on the left side of the menu.
- 3. Select 'Move' option then press ENTER. A yellow bar appears in the Program List.
- Use ▲ / ▼ to move the yellow bar to the desired location, then press ENTER. The selected track is moved.

Save Your Program List MP3

This recorder automatically memorizes the user program list for the disc that you have programmed. Program list remains in memory even if you remove the disc from the recorder or switch the recorder off. If you load a disc that has its program list memorized, the program list is automatically recalled.

JPEG Disc Operation

Viewing a JPEG Disc OPEG

The recorder can play discs with JPEG files. Before playing JPEG recordings, read "Notes on JPEG Recordings" at right.

Insert a disc and close the tray.

The Photo menu appears on the TV screen.



Use ▲ ▼ ◀ ► to select a folder, then press ENTER. A list of files in the selected folder appears.



Note

If the **?** icon displays in the Photo menu, it means you cannot see those JPEG files.

Use $\blacktriangle \lor \blacklozenge \lor \lor$ to select a file, then press ENTER.

The options appear on the left side of the menu.

T ip

- . If you are in a file list and want to return to the Folder list, use the \blacktriangle / \blacktriangledown buttons on the remote to highlight the 🛍 - icon and press ENTER.
- You can view TV channel or video input source by pressing AV. If you want to return to the Photo menu, press MENU/LIST.
- On the Photo menu, press SKIP (I or >>) to move to the previous or next page.
- On CDs with mixed content (audio tracks, MP3 files and JPEG files), you can select among the AUDIO CD menu, MP3 CD menu, and Photo CD menu by pressing TITLE repeatedlyin Stop mode.

Use ▲ / ▼ to select "Full View" option then press ENTER.





To stop viewing at any time, press STOP. The Photo menu reappears.

Skip Images

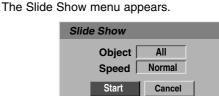
While viewing a picture, press SKIP (I◀◀ or ►►I) once to advance to the next file or return to the previous file.

Rotate Images

Use \blacktriangle / \blacktriangledown while viewing a picture to flip the picture clockwise or counterclockwise.

View Slide Shows

- 1. Select "Slide Show" option on the Photo menu.
- 2. Press ENTER.



- 3. Use $\blacktriangle \lor \blacktriangleleft \lor$ to set the options. Object: Selected file or All files. Speed: Sets the speed for Slide Show (Slow, Normal, or Fast)
- 4. Select the Start option then press ENTER to start the Slide Show.
- 5. Press STOP to stop the Slide Show and returns to the Photo menu.

Note

Use the MARKER button to select multiple files.

Notes on JPEG Recordings

- Depending on the size and number of JPEG files, it may take several minutes for the recorder to read the disc's content. If you don't see an on-screen display after several minutes, some of the files are too big reduce the resolution of the JPEG files to less than 4 mega pixels and burn another disc.
- The total number of files and folders are free but the total number of files on the folder should be less than 999.
- Some discs may be incompatible due to different recording formats or the condition of the discs.
- When you are using software such as "Easy CD Creator" to burn JPEG files on a CD-R, ensure that all selected files have the ".jpg" or ".jpeg" extension before copying them into the CD layout.
- If the files have ".jpe" extensions, please rename them as ".jpg" or ".jpeg" files.
- File names without the ".jpg" or ".jpeg" extension cannot be read by this recorder, even though the files are shown as JPEG image files in Windows Explorer®.

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Basic Recording

Basic Recording from a TV

Follow the instructions below to record a TV program. Recording starts immediately and continues until the disc is full or you stop the recording.



Switch on the recorder and load a recordable disc. Also make sure that the TV input is set to this recorder. If you load a completely blank disc, the recorder takes a short while to initialize the disc.

2 Set a recording mode as necessary by pressing REC MODE repeatedly. (HQ, SQ, LQ, EQ) HQ; High Quality, SQ; Standard Quality, LQ: Low Quality, EQ: Extended Quality

Use \blacktriangle / \checkmark buttons to select the TV channel to record.

Changing TV Audio Channel

You can select the audio channel (language) to listen by pressing AUDIO during viewing TV program. The current audio channel is displayed on-screen. Stereo or mono broadcat: Stereo \rightarrow Left \rightarrow Right Bilingual broadcat: Main+Sub \rightarrow Main \rightarrow Sub

- For TV recording with bilingual, set audio channel from the TV Rec Audio in sub-menu of the Setup menu (see page 27).
- If the sound is of poor quality when set to Stereo, you can often improve it by changing to Mono (Left or Right).
- This recorder can record either NICAM or regular audio. If the NICAM setting (page 21) is set to Auto, then if the broadcast is NICAM, the audio automatically changes to NICAM and you can record the NICAM audio. If the broadcast is non-NICAM, the regular audio is always recorded.

If NICAM sound distortion occurs, due to poor reception, you can switch off NICAM setting of the program.

Press REC (●) once.

Recording will start. (The REC indicator lights in the display window.)

- Recording continues until you press STOP (■) or the disc is full.
- To record for a fixed length of time, see Instant Timer Recording on right.

Press STOP (■) to stop recording.

To Pause the Recording

- 1 Press PAUSE/STEP (III) to pause the disc during recording.
- 2 When you want to continue recording, press PAUSE/STEP (**III**).

To record one TV program while watching another

- 1 Press TV/DVD to select the TV mode during recording. The TV indicator appears.
- 2 Using the TV, select the channel to be viewed.

Instant Timer Recording

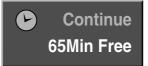
Instant Timer Recording allows you to make a recording easily of a preset length without using the program timer.

1 Follow steps 1-4 as shown left (Basic Recording from a TV).

2 Press REC (\bullet) repeatedly to select the recording time length.

Recording starts after the first press. Each subsequent press increases the recording time by 10 minutes within free space.

The recording time is displayed on the TV screen. At the end of the recording, the DVD Recorder will stop recording and shut off.



Instant Timer Record Menu

Checking the Recording Time

Press REC (\bullet) once to check the recording time. The recalled setting will automatically return to the TV screen for a moment.

Also, remaining time of recording is shown in the display window.

To Extend the Recording Time

The recording time can be extended anytime by pressing REC (ullet).

Each subsequent press increases the recording time by 10 minutes within free space.



If the recorder is unplugged (or there is a power failure) while the recorder is recording, the recording will be lost.



Timer Recording

This DVD Recorder can be programmed to record up to 7 programs within a period of 1 month. For unattended recording, the timer needs to know the channels to be recorded, the starting time and length.

Press TIMER REC.

The Timer Record menu will appear.



- PR Choose a memorized program number, or one of the external inputs from which to record.
- Date Choose a date up to 1 month in advance.
- Start Time Set the recording start time.
- · Length Set the recording length.
- **Mode** Choose a record mode (HQ, SQ, LQ, EQ, or AT).

AT (Auto) mode determines how much disc time is available and switches record mode, if necessary, to complete recording the program.

- Repeat Choose a desired repeat (Once, Daily (Monday Friday), or Weekly).
- PDC The PDC system automatically adjusts the recording time so that even if a program is not running to schedule, you won't miss it. For PDC to work properly, you must input the correct announced time and date of the program you want to record.

Note that PDC may not work with every station.

Notes

- Stations that use PDC typically include PDC information in the teletext TV guide pages. Please refer to these pages when setting a timer recording.
- This recorder takes approximately 20 seconds to switch on and start recording. This means that when using PDC, there may be instances where the beginning of the program is not recorded.

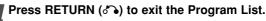
2 Enter the necessary information for your timer recording(s).

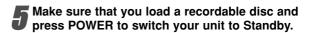
- ✓ / ► (left/right) move the cursor left/right
- ▲ / ▼ (up/down) change the setting at the current cursor position
- Press RETURN (3) to exit the Timer Record menu.
- Press ENTER after filling in all the program information.
- Press TIMER REC to display Timer Record List.

Press ENTER, the program will be memorized by the DVD Recorder.

To check the programming, the Timer Record List will appear.

Check field's "Rec. OK" on the Timer Record List indicates that the timer recording is programmed correctly and recordable disc inserted.





Notes

- The timer indicator lights in the display window when the recorder is in standby with the timer active.
- For TV recording with bilingual, set audio channel from the TV Rec Audio in sub-menu of the Setup menu (see page 27).
- You must press POWER to stop the timer recording.

Timer Recording (Continued)

Checking Timer Recording Details

Programming can be checked whenever the DVD Recorder is turned on. Press TIMER REC twice.

- Use ▲ / ▼ to select a timer recording.
- Press **ENTER** to edit the selected program. Timer Record menu appears.
- Press **CLEAR** to delete the selected program from the Timer Record List.



Canceling a Timer Recording

You can clear a timer setting anytime before the recording actually starts.

 Use ▲ / ▼ to select a program you want to erase on the Timer Recorder List. If you want to erase the program, press CLEAR.

Stopping a Timer Recording in Progress

After a timer recording has started, you can still cancel the program.

Press POWER.

Timer Recording Troubleshooting

Even though the timer is set, the recorder will not record when:

- There is no disc loaded.
- A non-recordable disc is loaded.
- Disc Protect is set to ON in the Setup menu
- (see page 28).Power is turned on.
- There are already 99 titles recorded on the disc.

You cannot enter a timer program when:

- A recording is already underway.
- The time you're trying to set has already passed.
- There are already 7 timer programs set.

If two or more timer programs overlap:

- The earlier program takes priority.
- When the earlier program finishes, the later program starts.
- If two programs are set to start at exactly the same time, the program entered first takes priority.

If the disc is damaged, the recording may not complete successfully. In this case even though the Check field shows "Rec. OK", it may not be.



Recording from an External Input

Recording from External Components

You can record from an external component, such as a camcorder or VCR, connected to any of the recorder's external inputs.

Make sure that the component you want to record from is connected properly to the DVD Recorder. See page 18.

Press AV repeatedly to select the external input to record from.

- Tuner: Built-in tuner
- AV1: EURO AV1 AUDIO VIDEO mounted on back panel
- AV2: EURO AV2 DECODER mounted on back panel AV3: AUDIO AV IN 3 / VIDEO IN 3 mounted on back panel
- AV4: INPUT 4 (VIDEO, AUDIO (L/R), S-VIDEO IN) mounted on front panel
- · DV: DV IN mounted on front panel

Load a recordable disc.

Select the recording mode as necessary by pressing REC MODE repeatedly. (HQ, SQ, LQ, EQ)

HQ; High Quality, SQ; Standard Quality, LQ: Low Quality, EQ: Extended Quality

Press REC (●) once.

Recording will start. (The REC indicator lights in the display window.)

- Recording continues until you press STOP (■) or the disc is full.
- To record for a fixed length of time, see Instant Timer Recording on page 40.

Press STOP (■) to stop recording.

Note

If your source is copy-protected using CopyGuard, you will not be able to record it using this recorder. See Copyright on page 9 for more details.

Recording from a Digital Camcorder

You can record from a digital camcorder connected to the DV IN jack on the front panel of this recorder. Using the recorder's remote, you can control both the camcorder and this recorder.

Before recording, make sure that the audio input for the DV IN jack is set up (see page 27).

Tips

- The source signal must be DVC-SD format.
- Some camcorders cannot be controlled using this recorder's remote.
- If you connect a second DVD Recorder using a DV cable, you cannot control the second DVD from this one.
- You can't control this unit remotely from a component connected to the DV IN jack.
- You can't record date and time information from a DV cassette.
- Make sure your digital camcorder is connected to the front panel DV IN jack. See page 18.

Check that the DV audio input is as you require. You can choose between Audio 1 (original audio) and Audio 2 (overdubbed audio).

• DV Input is set from the DV Rec Audio in sub-menu of the Setup menu. See DV Rec Audio on page 27 for more information.

Press AV repeatedly to select the DV input.

DV appears in the display window and on the TV screen.

Find the place on the camcorder tape that you want to the recording to start from.

For best results, pause playback at the point from which you want to record.

· Depending on your camcorder, you can use this recorder's remote to control the camcorder using the STOP, PLAY and PAUSE functions.

Press REC () once to start recording.

- · Recording is automatically stopped if the recorder detects no signal.
- You can pause or stop the recording by pressing PAUSE/STEP (III) or STOP (III). You cannot control the camcorder from this remote control during recording.
- In Video mode, the final frame of the recording may remain displayed on screen for a while after recording stops.
- · For timer recording to work properly on this recorder, the digital camcorder must also be switched on and in operating.



Recording from an External Input (Continued)

What is DV?

Using DV, also known as i.LINK, you can connect a DV-equipped camcorder to this recorder using a single DV cable for input and output of audio, video, data and control signals.

The i.LINK interface is also known as IEEE 1394-1995. "i.LINK" and the "i.LINK" logo are trademarks.

- This recorder is only compatible with DV-format (DVC-SD) 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 from external equipment connected via the DV IN jack (including two DVD recorders).
- It may not always be possible to control the connected camcorder via the DV IN jack.
- Digital camcorders can usually record audio as stereo 16-bit/48kHz, or twin stereo tracks of 12-bit/32kHz. This recorder can only record one stereo audio track. Set DV Rec Audio to Audio 1 or Audio 2 as required (see page 27).
- Audio input to the DV IN jack should be 32 or 48kHz (not 44.1kHz).
- Picture disturbance on the recording may occur if the source component pauses playback or plays an unrecorded section of tape, or if the power fails in the source component, or the DV cable becomes disconnected.
- Although DV Rec Audio is set to Audio 2 and Audio 2 signal is not present, DV Rec Audio will be reset to Audio 1 automatically.

DV-Related Messages

You may see the following messages appear on your TV screen when using the DV IN jack.

Not connected to camcorder

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

Too many devices connected

The DV jack on this recorder supports connection to just one camcorder.

Check the tape

There is no cassette loaded into the connected equipment.

Uncontrollable device

This recorder cannot control the camcorder.

Updating Information

Camcorder is updating information for DV.

Camera mode

Camcorder is set to camera mode.

Troubleshooting

If you can't get a picture and/or audio through the DV IN jack, check the bullet points:

- Make sure the DV cable is properly connected.
- Try switching off the connected equipment then switch back on.
- Try switching the audio input.

Note

Depending on the connected camcorder, you may not be able to control it using the remote control supplied with this recorder.

Title List and Chapter List Menu

Using the Title List-Original menu

The Title List-Original is where you build and edit your Playlist, and where you can delete titles and make other changes to the Original content of the disc. You can also play individual titles directly from the Title List-Original menu.

The recorder must be stopped in order to edit using the Title List-Original.

Press MENU/LIST repeatedly to display the Title List-Original menu.

- Use the ▲ / ▼ buttons to display the previous/ next page if there are more than 6 titles.
- To exit the Title List-Original menu, press RETURN (3).



2 To view Title List-Original options, select the title you want then press ENTER.

Title List-Original options appears on the left side of the menu.

3 Use \blacktriangle / \blacktriangledown to select an option then press ENTER to confirm.

ist-
age
al Ig of
,

Title Name	
Delete Part	
Undo	
Redo	

Protect: Protects accidental
recording, editing or deleting of
the title. (page 55)
Edit: Selects Edit options.
Title Name: Edits the title
name. (page 53)
• Delete Parts: Deletes a part
of the Title. (page 52)
• Undo: Undoes the last delet-

- Undo: Undoes the last deleting. (page 53)
 Redo: Redoes the undo
- action. (page 53) **Playlist:** Adds the title to the

Playlist. (page 51)

Press RETURN (()) repeatedly to exit Title List-Original menu.

T_{ip}

Press DISPLAY to display more detailed title information for selected title.

Using the Chapter List-Original menu

- Press MENU/LIST repeatedly to display Title List-Original menu.
- 2 Use ▲ ▼ ◀ ► to choose the title you want to view Chapter List-Original menu then press ENTER.

Title List-Original options appears on the left side of the menu.

P Use \blacktriangle / \checkmark to select 'Chapter' from Title List-Original options then press ENTER.

Chapter List-Original menu appears on the TV screen.



To view Chapter List-Original options, select the chapter you want then press ENTER.

Chapter List-Original options appears on the left side of the menu.

5 Use \blacktriangle / \triangledown to select an option then press ENTER to confirm.

Play: Starts playback of the selected chapter.	
Title: Moves to Title List- Original menu of the chapter.	
	(refer to left on this page) Delete: Deletes the chapter. (page 52)
Combine: Combines two chapters into one. (page 54)	
Playlist: Adds the chapter to the Playlist. (page 51)	

5 Press RETURN (ເຈົ້) repeatedly to exit Chapter List-Original menu.

Using the Title List-Playlist Menu

Press MENU/LIST repeatedly to display the Title

- List-Playlist menu.
- Use the ▲ / ▼ buttons to display the previous/ next page if there are more than 6 titles.
- To exit the Title List-Playlist, press RETURN (5).



2 To view Title List-Playlist options, select the title you want then press ENTER.

Title List-Playlist options appears on the left side of the menu.

3 Use \blacktriangle / \checkmark to select an option then press ENTER to confirm.

Play	Play: Starts playback the selected title.
Chapter	Chapter: Moves Chapter List-
Delete	Playlist menu of the title. (refer to right on this page)
Title Name	Delete: Deletes the title from the
Delete Part	Title List-Playlist menu. (page 52)
	Title Name: Edits the title

Title Name: Edits the title name. (page 53) Delete Part: Deletes a part of

the Title. (page 52)

Press RETURN () repeatedly to exit Title List-Playlist menu.

T'_{ip}

Press DISPLAY to display more detailed title information for selected title.

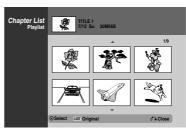
Using the Chapter List-Playlist Menu

- Press MENU/LIST repeatedly to display the Title List-Playlist menu.
- 2 Use ▲ ▼ ◀ ► to choose the title you want to view Chapter List-Playlist menu then press ENTER.

Title List-Playlist options appears on the left side of the menu.

Use ▲ / ▼ to select 'Chapter' from Title List-Playlist options then press ENTER.

Chapter List-Playlist menu appears on the TV screen.





To view Chapter List-Playlist options, select the chapter you want then press ENTER.

Chapter List-Playlist options appears on the left side of the menu.

Use \blacktriangle / \blacktriangledown to select an option then press ENTER to confirm.

Play	Play: Starts playback of the selected chapter.	
Title	Title: Moves to Title List-Playlist	
Delete	menu of the chapter. (refer to	
Combine	left on this page)	
	Delete: Deletes the chapter from	
Move	the Chapter List-Playlist menu. (page 52)	
	Combine: Combines two chap-	
	ters into one. (page 54)	
	Move: Moves a chapter of Chapter List-Playlist menu to a	

Press RETURN (ふ) repeatedly to exit Chapter List-Playlist menu.

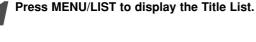
position on the menu. (page 54)



Using the Title List menu Video

From the Title List display you can play, name and delete titles.

Once a Video mode disc is finalized, the Title List screen changes its appearance and all you can do is select titles to play.





2 Use ▲ / ▼ to choose a title then press ENTER. Title List options appears on the left side of the Title List display.

B Use \blacktriangle / \blacktriangledown to select an option then press ENTER to confirm.

Play	Play: Starts playback the selected title.	
Title Name	Title Name: Edits the title	
Delete	name. (page 53)	
	Delete: Deletes the title from the	
	Title List.	

Press RETURN (3) repeatedly to exit Title List.

T_{ip}

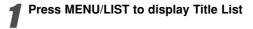
Press DISPLAY to display more detailed title information for selected title.

Deleting a Title Video

Before a disc is finalized, you can delete titles recorded on the disc.

Caution

- If you delete a title from a DVD-R disc, the title will disappear from the Title List, but the available recording time will not increase.
- When deleting a title from a DVD-RW disc, the remaining time available for recording will only increase if it is the last title on the disc.



2 Use $\blacktriangle \lor \dashv \lor$ to choose a title you want to delete then press ENTER.

Title List options appears on the left side of the Title List menu.

Use \blacktriangle / \bigtriangledown to select 'Delete' then press ENTER to confirm.

After pressing ENTER, the new, updated title list is displayed.

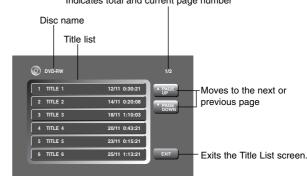
Play
Title Name
Delete

Repeat steps 2-3 to delete additional titles from the Title List.

Fress RETURN (ه) repeatedly to remove the Title List display.

If the disc has already been finalized

You should see a screen like the one below. Indicates total and current page number



• Also you can exit the Title List display using TITLE or MENU/LIST.

Using the Title List menu **+**RW

The Title List is where you can see the all recorded titles, and where you can delete titles and make other changes to the Original content of the disc. You can also play titles directly from the Title List menu. The recorder must be stopped in order to edit using the Title List menu.

Press MENU/LIST to display the Title List menu.

- Use the ▲ / ▼ buttons to display the previous/ next page if there are more than 6 titles.
- To exit the Title List menu, press RETURN (3).



2 To view Title List options, select the title you want then press ENTER.

Title List options appears on the left side of the menu.

B Use \blacktriangle / \blacktriangledown to select an option then press ENTER to confirm.

Play	Play: Starts playback the selected title except the hidden chapters.	
Full Play		
Chapter	Full Play: Starts playback the	
Delete	selected title including the hid- den chapters.	
Protect	Chapter: Moves Chapter List	
Edit >	menu of the title. (refer to right on this page)	
	Delete: Deletes the title.	
Title Name	(page 52)	
Divide	Protect: Protects accidental recording, editing or deleting of the title (page 55)	
Hide		

the title. (page 55)

- Edit: Selects Edit options.Title Name: Edits the title name. (page 53)
- **Divide:** Divides one title into two titles. (page 56)
- Hide (Show): Hides (or Shows) the all chapters within the title. (page 55)

Press RETURN (3) repeatedly to exit Title List menu.

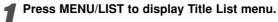
T_{ip}

Press DISPLAY to display more detailed title information for selected title.

ACaution

If you press REC (●) when the Title List menu appears, the selected title is erased then overwrte recording starts. (See page 57 for more details.)

Using the Chapter List menu +RW



2 Use ▲ ▼ ◀ ► to choose the title you want to view Chapter List menu then press ENTER. Title List options appears on the left side of the menu.

Use \blacktriangle / \bigtriangledown to select 'Chapter' from Title List options then press ENTER.

options then press ENTER. Chapter List menu appears on the TV screen.



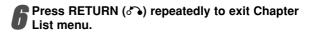
To view Chapter List options, select the chapter you want then press ENTER.

Chapter List options appears on the left side of the menu.

5 Use \blacktriangle / \checkmark to select an option then press ENTER to confirm.

Play	Play: Starts playback of the selected chapter. Title: Moves to Title List menu	
ïtle		
Combine	of the chapter. (refer to left on	
lide	this page)	
	Combine: Combines two chap-	
	ters into one. (page 54)	

Hide (Show): Hides (or Shows) the selected chapter. (page 55)



T C H

Using the Title List menu

The Title List is where you can see the all recorded titles, and where you can delete titles and make other changes to the Original content of the disc. You can also play titles directly from the Title List menu. The recorder must be stopped in order to edit using the Title List menu.

Press MENU/LIST to display the Title List menu.

- Use the ▲ / ▼ buttons to display the previous/ next page if there are more than 6 titles.
- To exit the Title List menu, press RETURN (3).



2 To view Title List options, select the title you want then press ENTER.

Title List options appears on the left side of the Title List menu.

Use \blacktriangle / \blacktriangledown to select an option then press ENTER to confirm.

Play Full Play	Play: Starts playback the selected title except the hidden chapters.
Chapter	Full Play: Starts playback the
Delete	selected title including the hid- den chapters.
Protect	Chapter: Moves Chapter List
Edit >	menu of the title. (refer to right on this page)
Title Name	Delete: Deletes the title. (page 52)
Divide	Protect: Protects accidental
Hide	recording, editing or deleting of the title. (page 55)
	Edit: Selects Edit options. • Title Name: Edits the title name. (page 53) Hide (Show): Hidea (ar

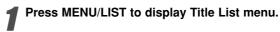
• Hide (Show): Hides (or Shows) the all chapters within the title. (page 55)

Press RETURN () repeatedly to exit Title List menu.



Press DISPLAY to display more detailed title information for selected title.

Using the Chapter List menu



- Use ▲ ▼ ◄ ► to choose the title you want to view Chapter List menu then press ENTER. Title List options appears on the left side of the menu.
- **3** Use \blacktriangle / \blacktriangledown to select 'Chapter' from Title List options then press ENTER.

Chapter List menu appears on the TV screen.



To view Chapter List options, select the chapter you want then press ENTER.

Chapter List options appears on the left side of the menu.

5 Use \blacktriangle / \triangledown to select an option then press ENTER to confirm.

Play	Play: Starts playback of the selected chapter.
Title	Title: Moves to Title List menu
Combine	of the chapter. (refer to left on this page) Combine: Combines two chap-
Hide	
	ters into one. (page 54)
	Hide (Show): Hides (or Shows)
	the selected chapter. (page 55)

press RETURN (්ි) repeatedly to exit Chapter List menu.



EDITING

Title and Chapter Editing

Edits you make to the Original content changes the actual content of the disc. For example, if you delete a title or chapter from the Original content (Title or Chapter), that title or chapter is deleted from the disc, freeing up extra recording time.

When you edit the Playlist, on the other hand, you are not changing the content of the disc. For example, when you delete a title from the Playlist, you are just telling the recorder not to play that title; nothing is actually deleted from the disc.

Titles, Chapters and Parts

Titles in the disc's original content contain one or more chapters. When you insert a title into the Playlist, all the chapters within that title also appear. In other words, chapters in the Playlist behave exactly as chapters on a DVD-Video disc do. Parts are sections of Original or Playlist titles. From the Original and Playlist menu you can add or delete parts. Adding a chapter or title to the Playlist creates a new title made up of a section (ie., chapter) of an Original title. Deleting a part removes part of a title from the Original or Playlist menu.

ACaution

- When editing using the Delete, Add and Move functions, the start and end frames may not be exactly as set in the start and end point display.
- During Playlist playback, you may notice a momentary pause between edits. This is not a malfunction.

Adding Chapter Markers

Chapter

You can put a chapter marker anywhere in a Playlist or Original title during recording or playback. Once the chapter is marked, you can use the Chapter Search feature, as well as delete, combine and move

chapters in the Chapter List-Original or Chapter List-Playlist menu.

You can insert up to 999 chapter markers in both the Original and Playlist contents.

N ote

Chapter markers are inserted at regular intervals automatically. You can change this interval from the Initial Setup menu (see Auto Chapter on page 27).

Play the title (Original or Playlist).

2 At the point you want to start a new chapter, press CHP ADD.

- A chapter marker icon appears on the TV screen.
- You can also put chapter markers in during recording.

Changing Title Thumbnails

VR +RW +R	0	Thumbnail
-----------	---	-----------

Each title displayed in the Title List menu is represented by a thumbnail picture taken from the start of that title or chapter.

If you prefer, select a different still picture from within a title.

Play the title (Original or Playlist).

Press THUMBNAIL to make the currently displayed picture the one that appears in the Original or Playlist menu.

The still picture that you choose appears in both the Original or Playlist menu.

T_{ip}

You can also change the thumbnail picture of the title on the Chapter List-Original or Chapter List-Playlist menu. Select a chapter on the Chapter List-Original or Chapter List-Playlist menu then press THUMBNAIL. The thumbnail picture of the title that includes the chapter is changed.

Making a New Playlist VR

Use this function to add an Original title or chapter to the Playlist. When you do this, the whole title is put into the Playlist (you can delete bits you don't need later ---see Deleting an Original or Playlist title/chapter on page 52).

The title appears in the Playlist complete with the chapter markers that appear in the Original. However, if you add more chapter markers to the Original later, these are not automatically copied over into the Playlist title.

You can add up to 999 chapters to one disc . If you only want to add a chapter of a title, use the Adding a title/chapter to the Playlist on this page.

Press MENU/LIST repeatedly to display Title List-Original menu.

If you want to display the Chapter List-Original menu, refer to "Using the Chapter List-Original menu" on page 45.

Choose a title or chapter on the Original menu to put into the Playlist, then press ENTER.

Original (Title or Chapter) options appears on the left side of the Original menu.

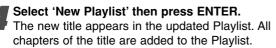
Play	
Chapter	Play
Delete	Title
Protect	Delete
Edit >	Combine
Playlist >	Playlist 2

Chapter List-Original

Use ▲ / ▼ to select 'Playlist' from Original options then press ENTER.

Title List-Original





Adding Additional Title/Chapters to the Playlist VR

You can add an Original title or chapter to add to a Playlist title even if it is already registered.

Press MENU/LIST repeatedly to display Title List-Original menu. If you want to show the Chapter List-Original menu,

45.

refer to "Using the Chapter List-Original" on page

Choose an Original title or chapter to put into the Playlist, then press ENTER.

Original menu options appears on the left side of the screen.

Play		
Chapter	Play	
Delete	Title	
Protect	Delete	
Edit >	Combine	
Playlist >	Playlist >	
Title List-Original	ginal Chapter List-Original	

Use ▲ / ▼ to select 'Playlist' from Original menu options then press ENTER.



Choose a Title List-Playlist that is already registered to insert a title or chapter, then press ENTER.

The title or chapter appears in the updated Playlist menu.

Repeat steps 1-4 to add additional title or chapter on the Playlist.



Press RETURN () to exit, or MENU/LIST to go back to the Title List-Original menu.

Deleting a Title/Chapter

VR +RW +R

When you erase a title or chapter from the Playlist menu on DVD-RW discs formatted in VR mode, you only remove it from the Playlist; the title/chapter remains in the Original menu.

If you choose to delete a title or chapter from Title List or Chapter List menu, the title or chapter is actually deleted from the disc and the remaining time available for recording increases. Titles/chapters deleted from the Original are also removed from the Playlist.

Note

It may not be possible to delete chapters that are less than 5 seconds long.



Options appears on the left side of the screen.

Select 'Delete' option on the options on the menu.

e.g., If you select "Delete" on Title List-Original menu.

Play	
Chapter	
Delete	
Protect	
Edit	>
Playlist	>

Press ENTER to confirm.

The confirm message for deleting will appear.

Use ◀ / ► to select 'Yes' then press ENTER.

The selected chapter or title is deleted. After pressing ENTER, the new, updated menu is displayed.

Repeat steps 1 - 4 to continue to delete from the menu.

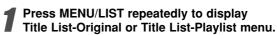
Press RETURN (ୈ) repeatedly to exit the menu.

Note

- When DVD+RW recording, the deleted title's name is changed to 'Deleted Title'.
- If the deleted titles more than two are continued, the titles are combined into one.

Deleting a Part **WR**

You can delete a part which you do not want in the title.



Use $\blacktriangle \lor \dashv
ightharpoon$ to choose a title you want to delete then press ENTER.

The options appears on the left side of the menu.

Select 'Delete Part' from the options on the menu.

e.g., If you select "Delete Part" on Title List-Original menu.

Play		
Chapter	Title Name	
	Delete Part	
Delete		
Protect		
Edit	Redo	
Disulist	<u> </u>	
Playlist	7	

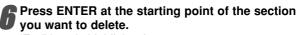
Press ENTER.

Title Edit (Delete Part) menu appears on the TV screen.

'Start' icon is highlighted.

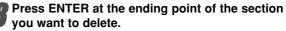


Starts playback and use pause step, search and slow-motion to find the starting point.



'End' icon is highlighted. The part is indicated on the Progress Bar.

Use pause step, search, skip and slow-motion to find the ending point.

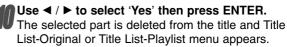


You can cancel the selected point, use \blacktriangle / \blacktriangledown to select 'Cancel' icon then press ENTER.



If you finish to edit, select 'Done' icon then press ENTER.

The confirm message for deleting will appear.



Undoing/Redoing the Last Deleting

If you make a mistake while deleting, you can undo it. There is one level of undo (in other words, you can undo the last one deleting you made).

Select 'Undo' from the Title List-Original menu then press ENTER.

It doesn't matter whether you are currently in the Title List-Original; the last deleting is undone.

e.g., If you select "Undo" on Title List-Original menu.

Play	
Chapter	Title Name
-	Delete Part Undo
Delete	
Protect	
Edit	Redo
Lan	
Playlist	>

N otes

- You can't undo a recording.
- You can't undo anything after ejecting the disc from the recorder or switching the recorder into standby.
- You can still undo deleting after exiting the menu screen.

T_{ip}

You can redo the last undo action using 'Redo' option. Select 'Redo' from the Title List-Original menu options then press ENTER.

Naming a Title VR Video +RW +R

You can name titles independently. Names can be up to 32 characters long.

On the Title List menu, use ▲ ▼ ◄ ► to choose the title you want to name then press ENTER. Options appears on the left side of the menu.

2 Use $\blacktriangle/\blacksquare$ to select 'Title Name' option then press ENTER.

Keyboard menu appears.

e.g., If you select "Title Name" on Title List-Original menu.

Play	
Chapter	Title Name
Delete	Delete Part
Protect	Undo
Edit	Redo
Playlist	>

Enter a name for the title. Use ▲ ▼ ◀ ► to select a character then press ENTER to confirm your selection. Refer step 3 as shown on page 21 (Station Rename).

	▲ Alphabet Capital ► 6 (1.6)
1 2	3 4 5 6 7 8 9 0
AB	CDEFGHIJ
KL	M N O P Q R S T
UV	W X Y Z ' Æ Ç Ð
<u>` </u>	´´¨`^Ø ▷≪ »
ок	Cancel Space Delete

Choose OK then press ENTER to fix the name and return to the previous menu screen.

Press RETURN ((3)) repeatedly to exit the menu.

N otes

- · Names can be up to 32 characters long.
- For discs formatted on a different DVD Recorder, you will see only a limited character set.
- When recording in DVD-R, DVD+R or DVD+RW, the entered name is displayed on the DVD player only after finalizing.

Combining Two Chapters Into One

Use this function to combine two adjacent Playlist or Original chapters into one.

Note

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

1 On the Chapter List menu, select the second chapter of the two chapters you want to combine then press ENTER.

Chapter List options appears on the left side of the menu.



Use \blacktriangle / \blacktriangledown to select 'Combine'.

The combine indicator appears between the two chapters you want to combine.

e.g., If you select "Combine" on Chapter List-Original menu.

Play	
Title	
Delete	
Combine	
Playlist	>

Press ENTER to confirm.

After pressing ENTER, the updated menu is displayed.

Moving a Playlist Chapter

Use this function to re-arrange the playing order of Playlist chapters on the Title List-Playlist menu.

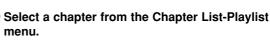
Press MENU/LIST repeatedly to display Title List-Playlist menu.

To display the Chapter List-Playlist menu, refer to "Using the Chapter List-Playlist" on page 46.

Note

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





Press ENTER.

Chapter List-Playlist options appears on the left side of the menu.

Use \blacktriangle / \triangledown to select 'Move' from Playlist options then press ENTER.

Play
Title
Delete
Combine
Move

Use ▲ ▼ ◀ ► to choose the place you want to move the chapter to then press ENTER. After pressing ENTER, updated menu is displayed.



Protect a Title VR +RW +R

Use this function to protect accidental recording, editing or deleting of the title.



Press MENU/LIST to display Title List menu.

Use $\blacktriangle \lor \dashv \lor$ to choose a title you want to protect then press ENTER.

Options appears on the left side of the screen.



Select 'Protect' option on the options.

e.g., If you select "Protect" on Title List menu.

Play	
Full Play	
Chapter	
Delete	
Protect	
Edit	>

Press ENTER to confirm.

The lock mark will appears on the title's thumbnail.

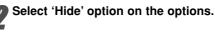
T'_{ip}

If you select a title that has already been protected on the Title List menu, you can 'unprotect' it by choosing "Protect" from the Title List menu options. After doing this, you can edit and delete the title.

Hide a Title/Chapter +RW +R

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

- In the Title List or Chapter List menu,
- use ▲ ▼ ◀ ► to choose a title or chapter you want to hide then press ENTER. Options appears on the left side of the screen.





_		
\mathbf{P}	P	ł
- T		-

Press ENTER to confirm.

The title's thumbnail will be dim.

T'_{ip}

If you select a title that has already been dim on the Title List menu, you can 'show' it by choosing "Show" from the Title List menu options. After doing this, you can see the title.

Divide One Title Into Two **+RW**

Use this command to split a title up into two new titles.



On the Title List menu, select a title you want to divide then press ENTER.

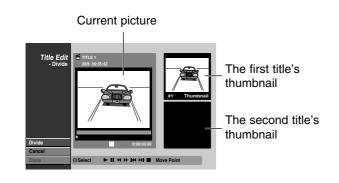
The menu options appears on the left side of the screen.

Select 'Divide' from the Title List menu options.

Play	
Full Play	
Chapter	
Delete	Title Name
Protect	Divide
Edit	Hide

Press ENTER when 'Divide' option is highlighted.

Title Edit-Divide menu appears and goes into STOP mode.



Use pause step, search, skip and slow-motion to find the point you want to divide the title.

5 When 'Divide' option is highlighted, press ENTER at the point.

You can clear the dividing point and exit the Title Edit-Divide menu, use \blacktriangle / \blacktriangledown to select 'Cancel' option then press ENTER. The dividing point is clear.

6 Choose 'Done' option then press ENTER to fix the dividing point.

The title is divided into two new titles. It take up to 4 minutes to divide.



Addition Information

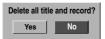
Clean-up Recording Video VR +RW

You can simply clean-up (erase) all contents on the disc then start recording from the first section of the disc. The disc format is not changed.

Switch on the recorder and load a recordable disc.

Press and hold REC (•) button for more than 3 seconds.

The message will appears on the TV screen.



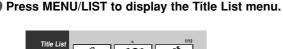
B Use ◄ / ► to select "Yes" then press ENTER. Recording will start. (The REC indicator lights in the display window.)

Overwrite Recording **+**RW

To overwrite a new video recording to a previously recorded title, follow these steps. This feature is not available on DVD+R, which always record at the end of the Disc.



Select input source you want to record (channel, AV1-4, DV).





Use $\blacktriangle \lor \blacklozenge \lor \lor \lor \lor$ to choose a title you want to overwrite.

Press REC (●) to start overwrite recording. Overwrite recording is started from the start point of the title.

```
Press STOP (■) to stop the overwrite recording.
The new title is created and updated menu is dis-
played.
```

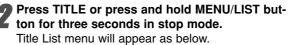
N otes

- This function is not available with a protected title.
- If the overwriting is elapsed more than the recording length of the current title, the next title is overwrited. But if next title is protected, the overwriting is stopped at the starting point of the title.
- If the selected title's recording length is less than 10 seconds, the next title is overwrited. But if next title is protected, the overwriting is stopped.

Viewing Title List menu displayed on other DVD recorders or players

You can view the Title List menu displayed on the another DVD player that is capable of playing DVD+RW or DVD+R discs.

Insert DVD+R or DVD+RW disc recorded already.



\mathcal{T}_{ip}

You can remove the Title List menu by pressing STOP (\blacksquare).



3 To play back a title, select the title you want then press ENTER or \blacktriangleright (PLAY).

Playing Your Recordings on Other DVD Players (Finalizing a Disc)

Most regular DVD players can play finalized discs recorded in Video mode, finalized DVD+R or DVD+RW. A small number of players can also play DVD-RW discs recorded in VR mode, finalized or not. Check the manual that came with the other player to check what kinds of discs it will play.

Finalizing 'fixes' the recordings and editings in place so that the disc can be played on a regular DVD player or computer equipped with a suitable DVD-ROM drive. Finalizing a Video mode disc creates a menu screen for navigating the disc. This is accessed by pressing MENU/LIST or TITLE.

To finalize a disc, refer to "Finalize" on page 28.

Notes

- Unfinalized DVD+RW is playable on regular DVD players.
- The edited contents of DVD+RW disc is compatible on regular DVD players only after finalizing.
- Any edited contents of the DVD+R disc are not be compatible on regular DVD players. (Hide, chapter combine, added chapter mark, etc.)

Language Code List

Enter the appropriate code number for the initial settings "Disc Audio", "Disc Subtitle" and/or "Disc Menu" (See page 23).

Code	Language	Code	Language	Code	Language	Code	Language
6566	Abkhazian	7074	Fiji	7678	Lingala	8373	Singhalese
6565	Afar	7073	Finnish	7684	Lithuanian	8375	Slovak
6570	Afrikaans	7082	French	7775	Macedonian	8376	Slovenian
8381	Albanian	7089	Frisian	7771	Malagasy	8379	Somali
6577	Amharic	7176	Galician	7783	Malay	6983	Spanish
6582	Arabic	7565	Georgian	7776	Malayalam	8385	Sudanese
7289	Armenian	6869	German	7784	Maltese	8387	Swahili
6583	Assamese	6976	Greek	7773	Maori	8386	Swedish
6588	Aymara	7576	Greenlandic	7782	Marathi	8476	Tagalog
6590	Azerbaijani	7178	Guarani	7779	Moldavian	8471	Tajik
6665	Bashkir	7185	Gujarati	7778	Mongolian	8465	Tamil
6985	Basque	7265	Hausa	7865	Nauru	8484	Tatar
6678	Bengali; Bangla	7387	Hebrew	7869	Nepali	8469	Telugu
6890	Bhutani	7273	Hindi	7879	Norwegian	8472	Thai
6672	Bihari	7285	Hungarian	7982	Oriya	6679	Tibetan
6682	Breton	7383	Icelandic	8065	Panjabi	8473	Tigrinya
6671	Bulgarian	7378	Indonesian	8083	Pashto, Pushto	8479	Tonga
7789	Burmese	7365	Interlingua	7065	Persian	8482	Turkish
6669	Byelorussian	7165	Irish	8076	Polish	8475	Turkmen
7577	Cambodian	7384	Italian	8084	Portuguese	8487	Twi
6765	Catalan	7465	Japanese	8185	Quechua	8575	Ukrainian
9072	Chinese	7487	Javanese	8277	Rhaeto-Romance	8582	Urdu
6779	Corsican	7578	Kannada	8279	Romanian	8590	Uzbek
7282	Croatian	7583	Kashmiri	8285	Russian	8673	Vietnamese
6783	Czech	7575	Kazakh	8377	Samoan	8679	Volapük
6865	Danish	7589	Kirghiz	8365	Sanskrit	6789	Welsh
7876	Dutch	7579	Korean	7168	Scots Gaelic	8779	Wolof
6978	English	7585	Kurdish	8382	Serbian	8872	Xhosa
6979	Esperanto	7679	Laothian	8372	Serbo-Croatian	7473	Yiddish
6984	Estonian	7665	Latin	8378	Shona	8979	Yoruba
7079	Faeroese	7686	Latvian, Lettish	8368	Sindhi	9085	Zulu

number for the initial setting "Country Code" (See page 26).

Entei	r the appropriate code n
Code	Country
AD	Andorra
AE	United Arab Emirates
AF	Afghanistan
AG	Antigua and Barbuda
AI	Anguilla
AL	Albania
AM	Armenia
	Netherlands Antilles
AO	Angola
AQ	Antarctica
AR	Argentina
AS	American Samoa
AT	Austria
AU	Australia
AW	Aruba
AZ	Azerbaidjan
BA	Bosnia-Herzegovina
BB	Barbados
BD	Bangladesh
BE	Belgium
BF	Burkina Faso
BG	
	Bulgaria
BH	Bahrain
BI	Burundi
BJ	Benin
BM	Bermuda
BN	Brunei Darussalam
BO	Bolivia
BR	Brazil
BS	Bahamas
BT	Bhutan
BV	Bouvet Island
BW	Botswana
BY	Belarus
BZ	Belize
	Canada
	Cocos (Keeling) Islands
CF	Central African Republic
CG	Congo
СН	Switzerland
CI	Ivory Coast
CK	Cook Islands
CL	Chile
СМ	Cameroon
CN	China
CO	Colombia
CR	Costa Rica
CS	Former Czechoslovakia
	Cuba
CV	
	Cape Verde
CX	Christmas Island
CY	Cyprus
CZ	Czech Republic
DE	Germany
DJ	Djibouti
DK	Denmark
DM	Dominica
DO	Dominican Republic
DZ	Algeria
EC	Ecuador
EE	Estonia
EG	Egypt
EH	Western Sahara
	western Sanara

Country Code List

	for the initial betting
Code	Country
ER	Eritrea
ES	Spain
ET	Ethiopia
FI	Finland
FJ	Fiji
FK	Falkland Islands
FM	Micronesia
FO	Faroe Islands
FR	France
FX	France (European
	Territory)
GA	Gabon
GB	Great Britain
GD	Grenada
GE	Georgia
GF	French Guyana
GH	Ghana
GI	Gibraltar
GL	Greenland
GM	Gambia
GN	Guinea
GP	Guadeloupe (French)
GQ	Equatorial Guinea
GR	Greece
GS	S. Georgia & S. Sandwich
	Isls.
GT	Guatemala
GU	Guam (USA)
GW	Guinea Bissau
GY	Guyana
HK HM	Hong Kong
	Heard and McDonald Islands
HN	Honduras
HR	Croatia
нт	Haiti
HU	Hungary
ID	Indonesia
IE	Ireland
IL	Israel
IN	India
10	British Indian Ocean
	Territory
IQ	Iraq
IR	Iran
IS	Iceland
IT	Italy
JM	Jamaica
JO	Jordan
JP	Japan
KE	Kenya
KG	Kyrgyzstan
КН	Cambodia6
KI	Kiribati
KM	Comoros
KN	Saint Kitts & Nevis Anguilla
KP	North Korea
KR	South Korea
KW	Kuwait
KY	Cayman Islands
KZ	Kazakhstan
	Laos
LB	Lebanon

burntry	Code (See page 26).
Code	Country
LC	Saint Lucia
LI	Liechtenstein
LK	Sri Lanka
LR	Liberia
LS	Lesotho
LT	Lithuania
LU	Luxembourg
LV	Latvia
LY	Libya
MA	Morocco
MC	Monaco
MD	Moldavia
MG	Madagascar
MH	Marshall Islands
MK	Macedonia
ML	Mali
MM	Myanmar
MN	Mongolia
MO	Macau
MP	Northern Mariana Islands
MQ	Martinique (French)
MR	Mauritania
MS	Montserrat
MT	Malta
MU	Mauritius
MV	Maldives
MW	Malawi
MX	Mexico
MY	Malaysia
MZ	Mozambique
AN	Namibia
NC	New Caledonia (French)
NE	Niger
NF	Norfolk Island
NG	Nigeria
NI	Nicaragua
NL	Netherlands
NO	Norway
NP	Nepal
NR	Nauru
NU	Niue
NZ	New Zealand
OM	Oman
-	
PA PE	Panama Peru
PE	Peru Polynesia (French)
PF	Polynesia (French) Papua New Guinea
PG	
PH PK	Philippines Pakistan
PK	Poland
PL	Saint Pierre and Miquelon
PN PR	Pitcairn Island Puerto Rico
PT PW	Portugal
PW PY	Palau
	Paraguay
	Qatar
RE	Reunion (French)
RO	Romania Russian Federation
RU	Russian Federation
RW	Rwanda Soudi Arobio
SA	Saudi Arabia
SB	Solomon Islands

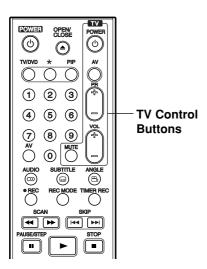
Code Country SC Seychelles SD Sudan SE Sweden SG Singapore SH Saint Helena SI Slovenia SJ Svalbard and Jan Mayen Islands SK Slovak Republic SL Sierra Leone SM San Marino SN Senegal SO Somalia SR Suriname ST Saint Tome and Principe SU Former USSR SV El Salvador SY Syria SZ Swaziland TC Turks and Caicos Islands TD Chad TF French Southern Territories ΤG Togo TH Thailand ΤJ Tadjikistan ΤK Tokelau ТМ Turkmenistan ΤN Tunisia TO Tonga ΤP East Timor TR Turkey TT Trinidad and Tobago ΤV Tuvalu ΤW Taiwan T7 Tanzania ŪA Ukraine UG Uganda UK United Kingdom UM USA Minor Outlying Islands US United States ŪΥ Uruguay UΖ Uzbekistan VA Vatican City State VC Saint Vincent & Grenadines VE Venezuela VG Virgin Islands (British) VI Virgin Islands (USA) VN Vietnam VU Vanuatu WF Wallis and Futuna Islands WS Samoa YE Yemen YT Mayotte YU Yugoslavia ZA South Africa ΖM Zambia ZR Zaire ZW Zimbabwe

REFERENCE

Controlling Your TV with the Supplied Remote

You can control the sound level, input source, and power switch of your LG TV with the supplied remote.

You can control your TV using the buttons below.



By pressing	You can
POWER	Turn the TV on or off.
AV	Switch the TV's input source between the TV and other input sources.
PR +/-	Scans up or down through memorized channels.
VOL +/-	Adjust the volume of the TV.
MUTE	Temporarily turns TV sound OFF, press again to restore.

Controlling other TVs with the remote

You can control the sound level, input source, and power switch of non-LG TVs as well. If your TV is listed in the table below, set the appropriate manufacturer code.

- 1. While holding down TV POWER button, press the number buttons to select the manufacturer code for your TV (see the table below).
- 2. Release TV POWER button.

Code numbers of controllable TVs

If more than one code number is listed, try entering them one at a time until you find the one that works with your TV.

Manufacturer	Code Number	
LG / GoldStar	1 (Default), 2	
Zenith	1, 3, 4	
Samsung	6, 7	
Sony	8, 9	
Hitachi	4	

N otes

- Depending on your TV, some or all buttons may not function on the TV, even after entering the correct manufacturer code.
- If you enter a new code number, the code number previously entered will be erased.
- When you replace the batteries of the remote, the code number you have set may be reset to the default setting. Set the appropriate code number again.

REFERENCE

Troubleshooting

Symptom	Cause	Solution
No power.	• The power cord is disconnected.	• Plug the power cord into the wall outlet securely.
No picture.	• TV/DVD mode for the recorder is set to TV.	 Press TV/DVD on the remote control repeatedly to choose DVD mode. TV indicator disappears in the display window.
	 The TV is not set to receive DVD Recorder signal output. 	 Select the appropriate video input mode on the TV so the picture from the DVD Recorder appears on the TV screen.
	 The video cable is not connected securely. 	Connect the video cable securely.
	• The connected TV power is turned off.	Turn on the TV.
No sound.	 The equipment connected with the audio cable is not set to receive DVD Recorder signal output. 	 Select the correct input mode on the audio receiver so you can listen to the sound from the DVD Recorder.
	The audio cables are not connected securely.	Connect the audio cable securely.
	• The power of the equipment connected with the audio cable is turned off.	• Turn on the equipment connected with the audio cable.
	• The audio connecting cord is damaged.	Replace it with new one.
The playback picture is poor.	The disc is dirty.	Clean the disc.
The DVD Recorder does not start playback.	No disc is inserted.	Insert a disc. (Check that the disc indi- cator in the display window is lit.)
	An unplayable disc is inserted.	Insert a playable disc. (Check the disc type, color system, and regional code.)
	• The disc is placed upside down.	Place the disc with the playback side down.
	• The disc is not placed within the guide.	• Place the disc on the disc tray correctly inside the guide.
	• The disc is dirty.	Clean the disc.
	 The Rating level is set. 	 Cancel the Rating function or change the rating level.
The picture from the external input is distort- ed	• The video signal from the external component is copy-protected.	 You cannot connect via this recorder. Connect the component directly to your TV.
Some channels are skipped over when using \blacktriangle / ∇ .	 Those channels are not stored in the recorder. 	Restore channels. See "Program Edit" on pages 20-21.
The picture or sound of broadcasting channel is weak or missing.	Aerial or cables are loose.	Tighten connections or replace cable.
Camcorder image is not shown.	Camcorder is off.	 Turn camcorder on and operate properly.
Camcorder image via A/V input or DV IN to DVD Recorder is not shown on TV screen.	 DVD Recorder INPUT SELECT is incorrect. 	Use AV to select input channel (AV1, AV2, DV, etc.)

Check the following guide for the possible cause of a problem before contacting service.



Troubleshooting (Continued)

Symptom	Cause	Solution
Can't play a disc	• The disc was recorded in Video mode.	Finalize the disc. (page 28)
recorded using this recorder on another player.	• Some players will not play even a final- ized disc recorded in Video mode.	No solution.
pidyol.	• The disc was recorded in VR mode,	• The other player must be RW compati- ble in order to play it.
	• Discs recorded with copy-once material cannot be played on other players.	No solution.
Cannot record or did not record successfully.	• The remaining blank space on the disc is insufficient.	• Use another disc.
	• The source you are trying to record is copy protected.	 You cannot record the source.
	• When setting the recording channel, the channel is tuned on the TV's own tuner.	 Select the channel on the recorder's built-in TV tuner.
	 When recording to a Video mode disc, programs that are copy-once protected cannot be recorded. 	Use a VR mode formatted disc for copy- once material.
Timer recording is not possible.	Clock in DVD Recorder is not set to cor- rect time.	 Set clock to correct time. See "Auto Clock Set" or "Manual Clock Set" on page 22.
	 Timer has been programmed incorrectly. 	Reprogram Timer. See "Timer Recording" on page 41.
	Timer record indicator light does not appear after programming timer.	Reprogram Timer.
Stereo Audio Record	TV is not Stereo-compatible.	No solution.
and/or Playback is not present.	 Broadcast program is not in stereo for- mat. 	No solution.
	 DVD Recorder A/V Out jacks are not connected to TV A/V In jacks. 	 Make A/V connections. Stereo is available only via A/V output from DVD Recorder.
	• DVD Recorder Audio/Video Out is not selected for viewing at the TV.	Select AUX or A/V source as TV input.
	 DVD Recorder's TV audio channel is set to mono. 	 Set TV audio channel mode to Stereo. See "Changing TV audio channel" on page 40.
The remote control does not work properly.	• The remote control is not pointed at the remote sensor of the DVD Recorder.	Point the remote control at the remote sensor of the DVD Recorder.
	The remote control is too far from the DVD Recorder.	Operate the remote control within 7 m.
	There is an obstacle in the path of the remote control and the DVD Recorder.	Remove the obstacle.
	• The batteries in the remote control are exhausted.	Replace the batteries with new ones.

Moisture Condensation

Moisture condensation can occur:	In locations where moisture condensation may occur:
• When the DVD Recorder is moved from a cold place to a warm place.	• Keep the DVD Recorder plugged into an AC power outlet with POWER On. This will help prevent condensation.
Under extremely humid conditions.	 When condensation has occurred, wait a few hours for the DVD Recorder to dry before using it.

Specifications

General

Power requirements Power consumption Dimensions (approx.) Mass (approx.) Operating temperature Operating humidity Television system Recording format	AC 110-240V, 50/60 Hz 30W 430 X 76 X 383 mm (w x h x d) 5.5 kg 5°C to 35°C 5 % to 90 % PAL I colour system PAL	
Recording		
Recording format Recordable discs Recordable time	DVD VideoRecording, DVD-VIDEO DVD-ReWritable, DVD-Recordable, DVD+ReWritable, DVD+Recordable Approx. 1 hour (HQ mode), 2 hours (SQ mode), 4 hours (LQ mode), 6 hours (EQ mode)	
Video recording format Sampling frequency Compression format Audio recording format	27MHz MPEG 2	
Sampling frequency Compression format	48kHz Dolby Digital	
Playback		
Frequency response Signal-to-noise ratio	DVD (PCM 48 kHz): 8 Hz to 22 kHz, CD: 8 Hz to 20 kHz DVD (PCM 96 kHz): 8 Hz to 44 kHz More than 100 dB (AUDIO OUT connector)	
Harmonic distortion Dynamic range	Less than 0.008% (AUDIO OUT connector) More than 95 dB (AUDIO OUT connector)	
Inputs		
AERIAL IN VIDEO IN AUDIO IN DV IN	Aerial input, 75 ohms 1.0 Vp-p 75 ohms, sync negative, RCA jack x 2 / SCART x 2 0 dBm more than 47 kohms, RCA jack (L, R) x 2 / SCART x 2 4 pin (i.LINK/IEEE 1394 standard)	
Outputs		
VIDEO OUT S-VIDEO OUT	1 Vp-p 75 Ω , sync negative, RCA jack x 1 / SCART (Y) 1.0 V (p-p), 75 Ω , negative sync, Mini DIN 4-pin x 1 (C) 0.3 V (p-p) 75 Ω	
COMPONENT VIDEO OUT	(Y) 1.0 V (p-p), 75 Ω, negative sync, RCA jack x 1	
Audio output (digital audio) Audio output (optical audio) Audio output (analog audio)	(Pb)/(Pr) 0.7 V (p-p), 75 Ω, RCA jack x 2 0.5 V (p-p), 75 Ω, RCA jack x 1 3 V (p-p), 75 Ω, Optical connector x 1 2.0 Vrms (1 KHz, 0 dB), 600 Ω, RCA jack (L, R) x 1 / SCART	
Accessory: Scart cable Audio cable (L, R) Remote control		
• Design and specifications are sub	ject to change without notice.	

- Design and specifications are subject to change without notice.
- Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.
- DTS and DTS Digital Out are registered trademarks of Digital Theater Systems, Inc.



- LG Electronics U.K. Ltd. will provide the following services in order to expedite this Guarantee.
- 1. All faulty components which fail due to defective manufacture will be replaced free of charge for a period of 12 months from the original date of purchase.
- The dealer (or his service agent) who sold the product will be reimbursed for any labour provided in the repair of this LG equipment, for a period of 12 months from the original date of purchase. These claims must be made in accordance with the published scale of service charges and relevant claims procedure.

PLEASE NOTE:

- A. The dealer may restrict the guarantee to the original purchaser.
- B. The dealer is not obliged to carry out service under guarantee if unauthorized modifications are made to the apparatus, or if non standard components are used or if the serial number of the apparatus is removed, defaced, misused, or altered.
- C. Any claims made under guarantee must be directed to the dealer from whom the equipment was originally purchased. The dealer may, before carrying out service under guarantee, require a receipted account as evidence of the date of purchase.
- D. We respectfully point out that your dealer is not obligated to replace batteries if they become exhausted or worn in use.
- E. Aerial alignment and consumer control adjustments are not covered by this guarantee.

This guarantee does not affect your statutory rights.

• REQUIREMENTS TO MAINTAIN WARRANTY COVERAGE:

RETAIN YOUR RECEIPT TO PROVE DATE OF PURCHASE. A COPY OF YOUR RECEIPT MUST BE SURRENDERED AT THE TIME GUARANTEE SERVICE IS PROVED.

Product Registration Card :

It is helpful to complete at least your name, address, phone, model & serial numbers and return it. This will enable LG to assist you in the future should you lose your receipt, your units be stolen, or should modifications be necessary. To obtain information or assistance: Call 01753 500470 Monday-Friday 9.00am-4.30pm

MODEL NO.*	SERIAL NO.*	DATE OF PURCHASE.*

* Please complete for your own record

In all cases of difficulty - consult your LG dealer from whom the product was purchased

P/NO: 3834RD0028B

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