Video Cassette Recorder &
DVD Video Player / Recorder

DVDR630VR

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Owner's Manual
Manuel de l'utilisateur
Bedienungsanleitung
Gebruiksaanwijzingen
Istruzioni per l'uso

PHILIPS

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Safety Precautions

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

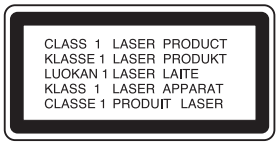
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

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 ELECTRIC 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.

CE This product is manufactured to comply with the radio interference requirements of EEC DIRECTIVE 89/336/EEC, 93/68/EEC and 73/23/EEC.

NOTES 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. _____

SHOWVIEW®

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Index

English 4

Français 61

Deutsch 119

Nederlands 177

Italiano 235

English

Français

Deutsch

Nederlands

Italiano

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English

Table of Contents

INTRODUCTION

Safety Precautions 2
Index 3
Table of Contents 4-5
Overview 6-11
Recordable Discs 6
Playable Discs 6
Disc-related terms 7
• Types of video CDs 7
About Symbols 7
• About the ⊘ symbol display 7
• About the disc symbols for instructions 7
About DVD+R and DVD+RW disc 8
About DVD recording 9
• Disc types and recording formats, modes, and settings 9
• Notes for recording 9
• Recording TV audio channels 10
• Restrictions on video recording 10
• Copyright 10
Remote Control Operation Range 10
Remote Control Battery Installation 10
Reset the Recorder 10
Precautions 11
• Handling the unit 11
• Cleaning the unit 11
Notes on Discs 11
• Handling discs 11
• Storing discs 11
• Cleaning discs 11
Front Panel 12
Function Display Window 13
Remote Control Overview 14
Rear Panel 15

HOOKUP

Connections 16-19
Connecting to the Aerial 16
Connections to Your TV 16
Connecting to a cable box or satellite receiver . . 17
Connecting an external decoder box 17
Connecting to an Amplifier 18
Accessory Audio/Video (A/V) Connections to Recorder 19
Connecting a Digital Camcorder 19
Before Operation 20-33
Initial Settings 20
General Operation 20
GENERAL 20-24
• Auto Programming 20
• Program Edit 21-22
• Auto Clock Set 23
• Manual Clock Set 23
• TV Aspect 23
• VCR Play Aspect 23
• VCR Play System 24
• AV2 Connection 24
• Progressive Scan 24
• Factory Setting 24
LANGUAGE 24
• Display Language 24
• Disc Language 24
AUDIO 25
• Dolby Digital 25
• DTS 25
• MPEG 25
• Sampling Frequency 25
• DRC (Dynamic Range Control) 25
• Vocal 25
LOCK (Parental Control) 26
• Set Password 26
• Movie Rating 26
• Country Code 27
RECORD 27
• Disc Record Mode 27
• VCR Record Mode 27
• VCR Record System 28
• DV Record Audio 28
• Auto Chapter 28
DISC 28-30
• Disc Initialize 28
• Disc Finalize 29
• Disc Label 29
• Disc Protect 30
• PBC 30
• Auto Play 30
General Explanation of On-Screen Display . 31-33
• Displaying Information on-screen 31-33
• Displaying Information While Watching TV . . 31
• Changing TV Channels 31
• Changing TV Audio Channel 31

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Table of Contents

English

PLAYBACK

Operation with DVD and Video CD 34-37
Playing a DVD or Video CD 34
General Feature 34
• Moving to another TITLE 34
• Moving to another CHAPTER/TRACK . . . 34
• Search 34
• Still Picture and Frame-by-Frame Playback . 34
• Slow Motion 35
• Random 35
• Repeat 35
• Repeat A-B 35
• Time Search 35
• Zoom 36
• Marker Search 36
• Checking the contents of DVD Video discs: Menus 36
• Title Menu 36
• Disc Menu 36
• Camera Angle 36
• Changing the Audio Soundtrack 36
• Changing the Audio Channel 37
• 3D Surround 37
• Subtitles 37
• Finding Locations on a Disc 37
• Last Condition Memory 37
Audio CD and MP3 Operation 38-39
Playing an Audio CD or MP3 Disc 38
Music menu options 38
• Pause 39
• Moving to Another Track 39
• Repeat Track/All(Folder)/Off 39
• Random 39
• Changing the Audio Channel 39
• Search 39
• Repeat A-B 39
Notes on MP3 Recordings 39
Programmed Playback with Audio CD and MP3 . 40
JPEG File Operation 41
Viewing a JPEG File 41
• Skip Image 41
• Rotate Images 41
• View Slide Shows 41
• Notes or JPEG Recordings 41
VCR Mode Tape Playback 42
Preparation 42
Normal Playback 42
• Tracking Control 42
Special Effect Playback 42
• Search 42
• Still Picture and Frame-by-Frame Playback . . 42
• Slow Motion 42
• Counter Memory Function 42

RECORDING

Basic Recording 43-44
Basic Recording from a TV 43
Instant Timer Recording 43
Copying from DVD to VCR 44
Copying from VCR to DVD 44
Timer Recording 45
Timer Recording with ShowView® System . . . 46
Checking Timer Recording Details 46
Canceling a Timer Recording 46
Stopping a Timer Recording in Progress 46
Timer Recording Troubleshooting 46
Recording from External Input 47-48
Recording from External Components 47
Recording from a Digital Camcorder 47
What is DV? 48
• DV-Related Messages 48
• Troubleshooting 48

EDITING

Title List and Chapter List Menu 49-50
Using the Title List menu +RW 49
Using the Chapter List menu +RW 49
Using the Title List menu +R 50
Using the Chapter List menu +R 50
Title and Chapter Editing 51-54
Adding Chapter Marker 51
Changing Title Thumbnails 51
Deleting a Title 51
Naming a Title 52
Combining Two Chapters Into One 52
Protect a Title 53
Hide a Title/Chapter 54
Divide One Title Into Two 54
Additional Information 55
Clean-up Recording 55
Overwrite Recording 55
Viewing Title List menu displayed on other DVD recorders or players 55
Playing Your Recordings on other DVD Players (Finalizing a Disc) 55

REFERENCE

Language Code List 56
Country Code List 57
Troubleshooting 58-59
Specifications 60

About the symbols for instructions

⚠ Indicates hazards likely to cause harm to the unit itself or other material damage.

Indicates special operating features of this unit.

Indicates tips and hints for making the task easier.

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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.

Notes

– 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.)
– The company does not hold any responsibility to compensate the contents which should have been recorded, and any losses or damages (e.g. losses of business profit, or business intermission) that may arise from malfunction of this recorder (not recording/editing as intended).
Problems arising in the following situations are included.
• When a DVD disc recorded on this recorder is used in a DVD recorder of another manufacturer, or used (insertion, playback, recording or editing) in a personal computer DVD drive.
• When a DVD that has been used as above is used again in this recorder.
• When a DVD disc recorded in a DVD recorder of another manufacturer, or in a personal computer DVD drive is used.

Playable Discs

DVD VIDEO	DVD (8 cm/12 cm disc)
COMPACT disc DIGITAL VIDEO	Video CD (VCD) (8 cm / 12 cm disc)
COMPACT disc DIGITAL AUDIO	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.

Notes

– 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.

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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 ⊘ symbol display

“ ⊘ ” 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 (+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.

- +R DVD+R disc
- +RW DVD+RW disc
- DVD DVD-Video disc
- VCD Video CDs
- CD Audio CDs
- MP3 MP3 CDs
- JPEG JPEG CDs
- VHS VHS Tape.

The finalized DVD disc is as DVD-Video disc

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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 (XP, SP, LP, EP)
- 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 (XP, SP, LP, EP)
- 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

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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.

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.
- 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	+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

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Overview (Continued)

Recording TV audio channels

This recorder can record either NICAM or regular audio. If the NICAM setting (page 22) 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.
- 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.

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.
- CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 625 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 625p RECORDER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.

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 (size AA) batteries with ⊕ and ⊖ aligned correctly.

⚠**Caution**

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

Reset the Recorder

If you observe any of the following symptoms...

- The front panel display is not working.
- The Recorder is not operating normally.

...you can reset the Recorder as follows:

- Press and hold the STANDBY-ON button for at least five seconds. This will force the unit to power off. Press the STANDBY-ON button again to turn the unit back on.
- Unplug the power cord, wait at least five seconds, and then plug it in again.

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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

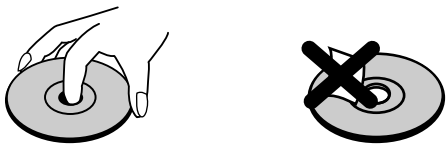
To clean the cabinet
Use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution. Do not use strong solvents such as alcohol, benzine, or thinner, as these might damage the surface of the unit.

To obtain a clear picture
The 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.

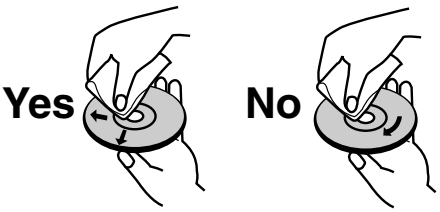


Storing discs

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.

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Front Panel

STANDBY ON
Switches the Recorder ON or OFF.

EJECT (⏏)
Ejects the tape in the VCR deck.

INPUT3 (VIDEO IN/AUDIO IN (Left/Right))
Connect the audio/video output of an external source (Audio system, TV/ Monitor, VCR, Camcorder, etc.).

PLAY (►)
Starts playback.

STOP (■)
Stops playback or recording.

PAUSE (❚❚)
Pause playback or recording temporarily, press repeatedly for frame-by-frame playback.

INPUT 3 (S-VIDEO IN)
Connect the S-Video output of an external source (TV/ Monitor, VCR, Camcorder, etc.).

RECORD (●)
Starts recording. Press repeatedly to set the recording time.

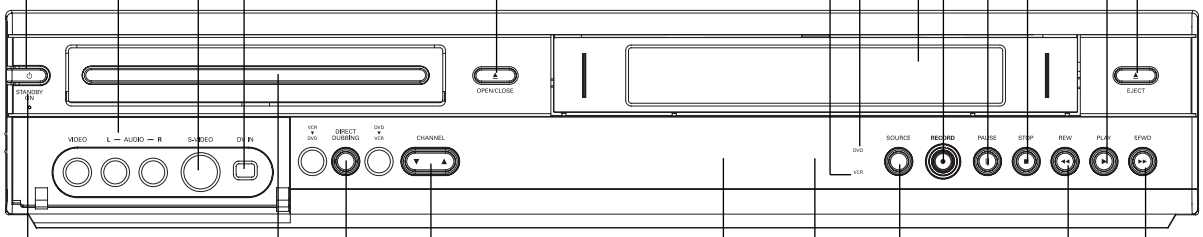
OPEN/CLOSE (⏏)
Opens or close the disc tray.

Cassette Compartment (VCR deck)
Insert a video cassette here.

DV INPUT
Connect the DV output of a digital camcorder.

DVD Indicator

VCR Indicator



Power indicator
Lights up red when the recorder is in standby mode.

Display window
Shows the current status of the Recorder.

Remote Sensor
Point the Recorder remote control here.

Disc Tray
Insert a disc here.

SOURCE
Toggles control between the DVD deck and the VCR deck.

DIRECT DUBBING
Press to copy DVD to VCR (or VCR to DVD).

CHANNEL (▲ / ▼)
Scans up or down through memorized channels.

REW ◄◄
Go to beginning of current chapter/ track or to previous chapter/track.
Press and hold for two seconds for a fast reverse search during playback.
Rewinds the tape.

F.FWD ►►
Go to NEXT chapter/track.
Press and hold for two seconds for a fast forward search during playback.
Winds the tape forwards.

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Function Display Window

Disc type indicators
Indicates the type of disc loaded.

Indicates when the recorder is in timer recording or a timer recording is programmed.

REC The recorder is recording.

PRG Programmed playback active

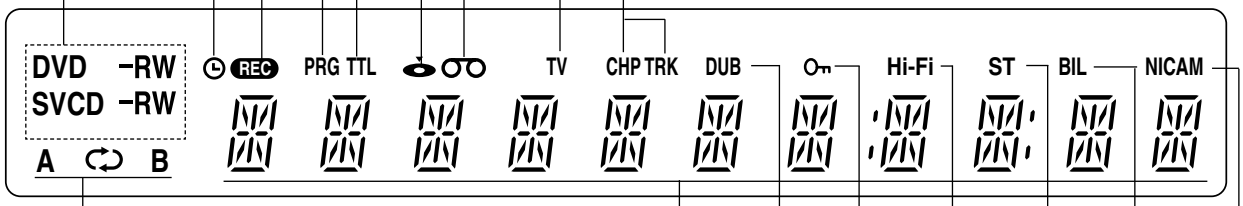
TTL Indicates current title.

A disc is inserted in the DVD deck.

A VHS tape is inserted in the VCR deck.

TV Indicates when the recorder is in TV tuner mode.

CHP/TRK Indicates current chapter or track number



REPEAT Indicates repeat mode.

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

DUB Indicates that a DVD to VCR (or VCR to DVD) copy is in progress.

Indicates when the Recorder is Locked.

Hi-Fi Indicates when the Recorder is playing a tape in Hi-Fi.

ST Indicates a stereo broadcast is being received.

BIL Indicates when a BILINGUAL broadcast is being received.

NICAM
Indicates when a NICAM broadcast is being received.

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Remote Control Overview

DVD
Select the Recorder's function mode to DVD.

VCR
Select the Recorder's function mode to VCR.

0-9 numerical buttons
Selects numbered options in a menu.

RETURN
-Removes the menu.
-Displays the menu of a video CD with PBC.

LIST/DISC MENU
Accesses menu on a DVD disc, Title List menu.

◄ / ► / ▲ / ▼ (left/right/up/down)
Selects an option in the menu.

▲ / ▼
- Select channel programme of the recorder.
- To adjust tracking.
- To control vertical tremble during picture still.

ENTER/OK
- Acknowledges menu selection.
- Displays information while viewing a TV program.

STOP (■)
Stops playback or recording.

SEARCH
Displays Marker Search menu.

PREV/NEXT (I◄/►I)
Go to next chapter or track. Returns to beginning of current chapter or track or go to previous chapter or track.

PAUSE/STEP (❚❚)
Pause playback temporarily / press repeatedly for frame-by-frame playback.

CHAP ADD
Inserts a chapter marker when playing/ recording.

MARKER
Marks any point during playback.

CLEAR
- Removes a track number on the Program List or a mark on the Marker Search menu.
- Reset tape counter to zero.

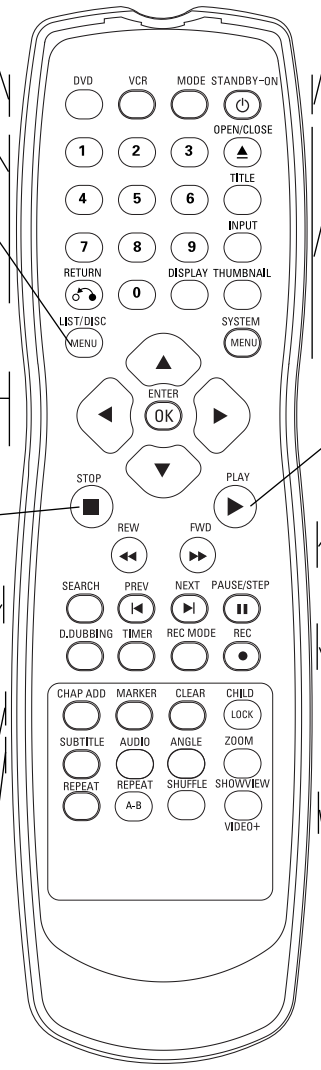
CHILD LOCK
Locks/unlocks front panel buttons.

SUBTITLE
Selects a subtitle language.

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

ANGLE
Selects a DVD camera angle, if available.

ZOOM
Enlarges DVD video image.



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

STANDBY-ON
Switches the recorder ON or OFF.

EJECT, OPEN/CLOSE
- Opens and closes the disc tray.
- Ejects the tape in the VCR deck.

TITLE
Displays the disc's Title menu, if available.

INPUT
Changes the input to use for recording (Tuner, AV1-3, or DV IN).

DISPLAY
Accesses On-Screen Display.

THUMBNAIL
Selects a thumbnail picture for the current title and chapter.

SYSTEM MENU
Accesses or removes the Setup menu.

► (PLAY)
Starts playback.

REW / FWD (◄◄/►►)
- DVD: Search backward or forward.
- VCR: Rewinds the tape during the STOP mode, for fast reverse picture search and Advances the tape during the STOP mode, fast forward picture search.

D.DUBBING
Press to copy DVD to VCR (or VCR to DVD).

TIMER
Displays Timer Record menu.

REC MODE
Selects the recording mode: XP, SP, LP, or EP.

REC (●)
Starts recording. Press repeatedly to set the recording time.

REPEAT
Repeat chapter, track, title, all.

REPEAT A-B
Repeat sequence.

SHUFFLE
Plays tracks in random order.

SHOWVIEW
To display the programme menu for ShowView programming.

CHILD LOCK
The Lock feature disables the front panel buttons to prevent children from tampering with the Recorder. Simply press CHILD LOCK on the remote control to toggle this feature on and off.

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English

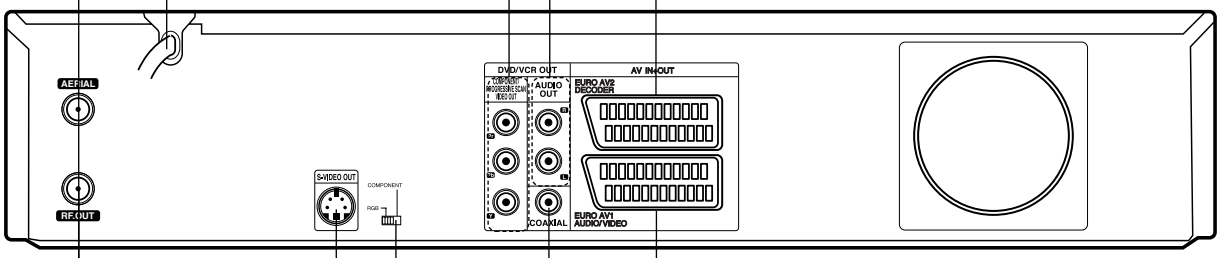
AERIAL
Connect the aerial to this terminal.

AC Power Cord
Plug into the power source.

COMPONENT/PROGRESSIVE SCAN VIDEO OUT (Y Pb Pr)
Connect to a TV with Y Pb Pr inputs.

AUDIO OUT (Left/Right)
Connect to an amplifier, receiver or stereo system.

EURO AV 2 DECODER
Connect the audio/video output of an external source (Pay-TV decoder, Set Top Box, VCR, etc.).



EURO AV 1 AUDIO/VIDEO
Connect to a TV with SCART jack.

COAXIAL (Digital audio out jack)
Connect to digital (coaxial) audio equipment.

VIDEO OUTPUT Switch
Select either COMPONENT VIDEO OUT or RGB signal of EURO AV1 AUDIO/ VIDEO terminal depending on how you connect the Recorder to the TV.

S-VIDEO OUT
Connect to a S-Video Input on TV.

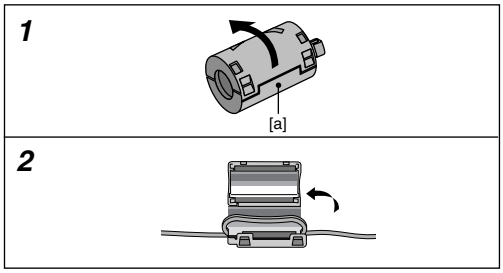
RF. OUT
Passes the signal from the **AERIAL** to your TV/monitor

Important Note

About Ferrite Core

Be sure to attach the ferrite core to the power cord (for connecting to this unit).
This ferrite core can reduce noises.

1 Push the stopper [a] of the ferrite core to open.
2 Wind the power cord twice on ferrite core.
3 Close the ferrite core until it clicks.



Caution

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

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Connections

Tips

- 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.

⚠Caution

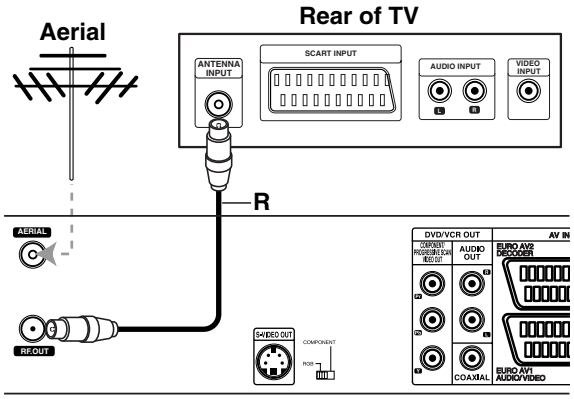
– Make sure the Recorder is connected directly to the TV. Tune the TV to the correct video input channel.
– Do not connect the Recorder's AUDIO OUT jack to the phono in jack (record deck) of your audio system.
– Do not connect your Recorder via your VCR. The DVD image could be distorted by the copy protection 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 recorder. Plug one end of the aerial cable into the TV socket on the recorder and the other end into the aerial input socket on your TV set.

RF coaxial connection

Connect the RF. OUT jack on the 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 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 OUTPUT switch to RGB.

SCART connection

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

S-Video connection

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

Component Video connection

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

Progressive Scan (ColorStream®Pro) connection

If your television is a high-definition or "digital ready" television, you may take advantage of the recorder's progressive scan output for the highest video resolution possible. If your TV does not accept the Progressive Scan format, the picture will appear scrambled if you try Progressive Scan on the recorder.

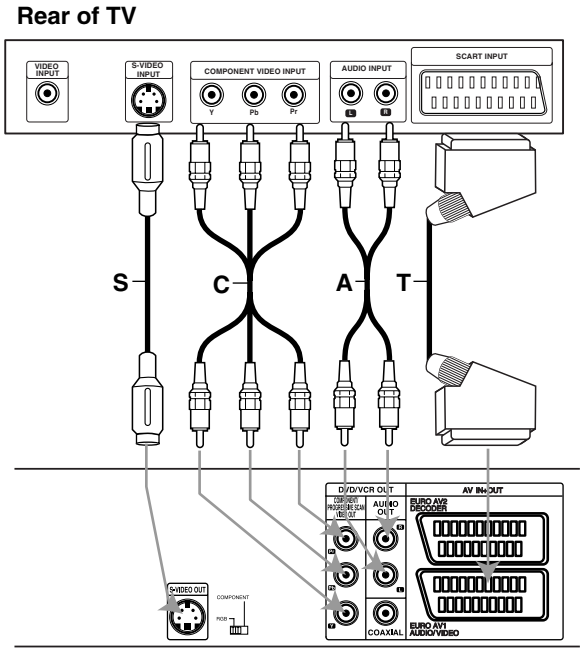
Connect the COMPONENT/PROGRESSIVE SCAN VIDEO OUT jacks on the Recorder to the corresponding input jacks on the TV using an Y Pb Pr cable **(C)**.

Notes

– Set the Progressive to "ON" on the setup menu for progressive signal, see page 24.
– Set the progressive to "Off" by removing any disc from the unit and close the disc tray. Then press STOP and hold it for five seconds before releasing it.
– Progressive scan does not work with the analog video connections or S-VIDEO connection.

Audio (Left/Right) Connection

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



Rear of Recorder

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English

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.

1 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.

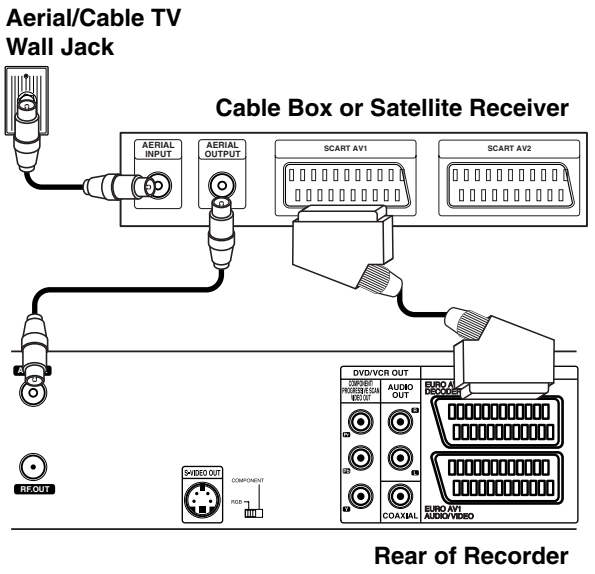
3 Use a SCART cable to connect the EURO AV2 DECODER connector to a SCART AV connector on your satellite/cable box.
This enables you to record scrambled TV channels.

Tip

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. Press MODE to select the TV mode during recording. The TV indicator appears.

⚠ **Caution:**

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



Rear of Recorder

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.

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

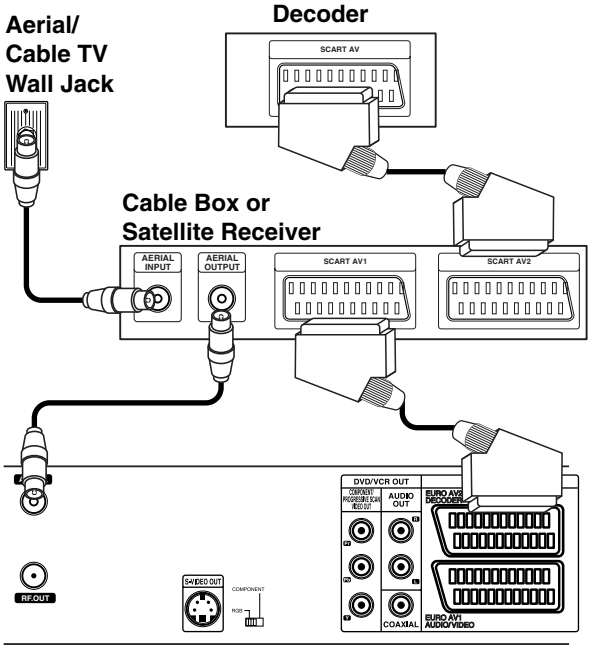
2 Use a SCART cable to connect your decoder to your cable/satellite tuner.
See the manual for your decoder box for more detailed instructions.

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

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

⚠ **Caution:**

- 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.



Rear of Recorder

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English

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 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™ or MPEG 2)

1. Connect one of the Recorder's DIGITAL AUDIO OUT jacks (COAXIAL **X**) to the corresponding in jack on your amplifier. Use an optional digital (coaxial **X**) audio cable.
2. You will need to activate the recorder's digital output. (See "AUDIO" on page 25).

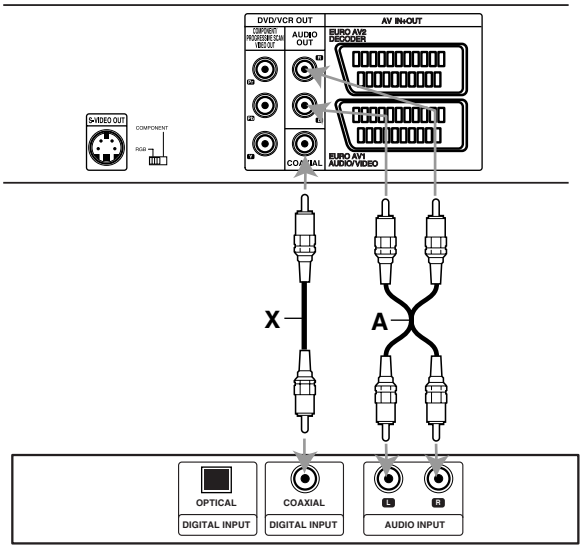
Digital Multi-channel sound

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 Recorder (MPEG 2 and Dolby Digital). Check the receiver manual and the logos on the front of the receiver.

Notes

– 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 on-screen display, press AUDIO.

Rear of Recorder



Amplifier (Receiver)

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English

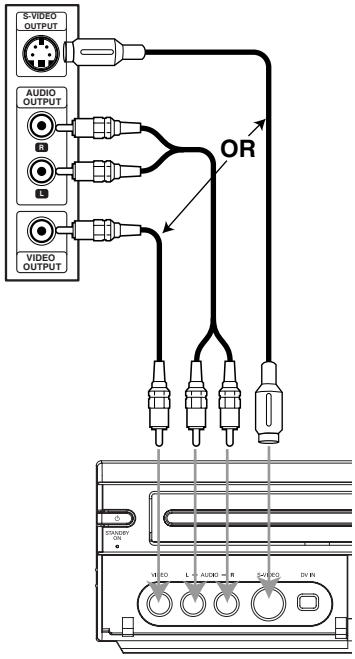
Accessory Audio/Video (A/V) Connections to Recorder

Connect the input jacks (AV3) on the 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.)



Front of Recorder

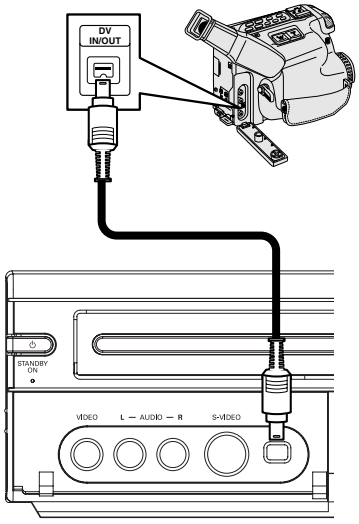
Connecting a Digital Camcorder

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.

DV Digital Camcorder



Front of Recorder

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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 SYSTEM MENU, only the first and second level of the menu system will appear on the TV screen. The third level can be displayed by pressing ►. For navigating the menu levels, you will see "►" on the right side of the menu label to help you go to the next level.

To bring up and exit the Menu:
Press SYSTEM MENU to bring up the menu. A second press of SYSTEM MENU 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

1. **Press SYSTEM MENU.**
   The Setup menu appears.
2. **Use ▲ / ▼ to select the desired option.**
3. **While the desired item is selected, press ► to move to the second level.**
4. **Use ▲ / ▼ to select the second desired option.**
5. **Press ► to move to the third level.**
6. **Use ▲ / ▼ to select the desired setting then press ENTER to confirm your selection.**
   Some items require additional steps.
7. **Press SYSTEM MENU to exit the Setup menu.**

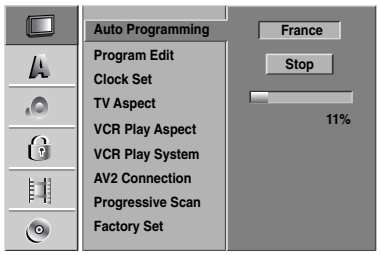
GENERAL

Auto Programming

This Recorder is equipped with a frequency synthesized tuner capable of receiving up to 99 TV channels.

Preparation:

- Connect the Recorder to the desired type of aerial, as shown in Connecting to the Aerial on page 16.



1. **Press SETUP.**
   The Setup menu appears.
2. **Use ▲ / ▼ to select the GENERAL option.**
3. **While the GENERAL option is selected, press ► to move to the second level.**
4. **Use ▲ / ▼ to select the Auto Programming option.**
5. **Press ► to move to the third level.**
   Country option is highlighted.
6. **Use ▲ / ▼ to select a country then press ►.**
   "Start" icon is highlighted.
7. **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.

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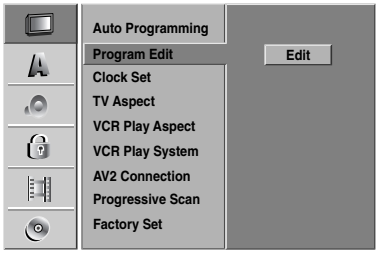
English

Program Edit

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



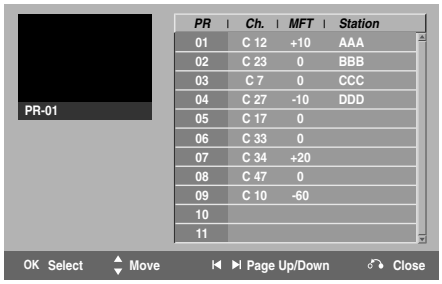
1 **Press SYSTEM MENU.**
The Setup menu appears.

2 **Use ▲ / ▼ to select the GENERAL option.**

3 **While the GENERAL option is selected, press ► to move to the second level.**

4 **Use ▲ / ▼ to select the Program Edit option then press ► to move to the third level.**
"Edit" icon is highlighted.

5 **Press ENTER.**
Program List menu appears.



6 **Use ▲ / ▼ to select a PR number then press ENTER.**
Program List options appears on the left side of the menu display.

7 **Use ▲ / ▼ to select an option then press ENTER to confirm.**

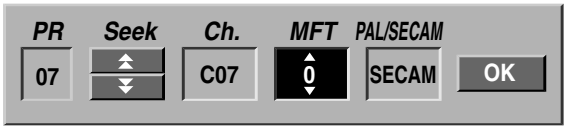
Program Edit	**Program Edit:** Edits the selected program.
Station Rename	**Station Rename:** Edits the station name.
Move	**Move:** Moves the program's location on the program list.
Delete	**Delete:** Deletes the program from program list.
Decoder On/Off	**Decoder On/Off:** Set the decoder for the program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

8 **Press RETURN (↶) repeatedly to exit Program List menu.**

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.

   ◄ / ► (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 recorder tunes in a station.

   Ch.: Changes the channel number to edit. Use ◄ / ► to select Ch. option then press ▲ / ▼.

   MFT: Changes the frequency for fine tuning. Use ◄ / ► to select MFT option then press ▲ / ▼.

   PAL/SECAM: Changes TV signal system (PAL or SECAM). Use ◄ / ► to select PAL/SECAM option then press ▲ / ▼.

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

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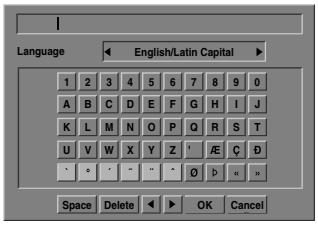
English

Program Edit (Continued)

Station Rename

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

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 'Station Rename' option from Program List options then press ENTER.
   Keyboard menu appears.



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

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 'Move' option from Program List options then press ENTER.
3. Use ▲ / ▼ to select a desired position then press ENTER to store.

Deleting a program

You can delete a program on the Program List menu.

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 'Delete' option from Program List options then press ENTER. The Program is deleted.

Setting the Decoder On/Off

1. 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.
2. 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 recorder can receive Hi-Fi sound transmissions in NICAM Stereo. However, if sound distortion occurs, due to poor reception, you can switch Off

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 'NICAM Auto/Off' option from Program List options then press ENTER. If you select Auto, 'NICAM' appears on the menu screen.

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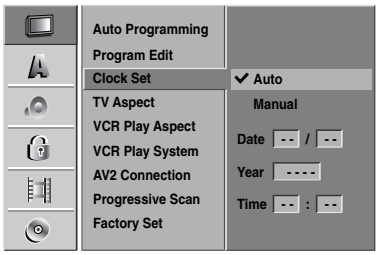
Auto Clock Set

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.



1 **Press SYSTEM MENU.**
The Setup menu appears.

2 **Use ▲ / ▼ to select the GENERAL menu.**

3 **While the GENERAL option is selected, press ► to move to the second level.**

4 **Use ▲ / ▼ to select the Clock Set option.**

5 **Press ► to move to the third level.**

6 **Use ▲ / ▼ to select the Auto option then press ENTER.**

7 **Press SYSTEM MENU to exit the Setup menu.**

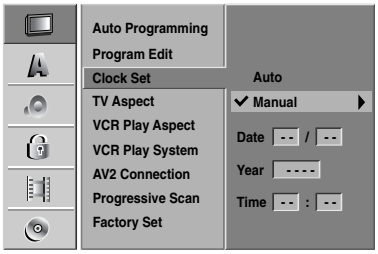
Note

There are cases where the TV station does not send, or sends wrong date and/or time information and the Recorder sets the incorrect time.
If this happens, we recommend that you set the clock manually.

Manual Clock Set

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

2 **Use ▲ / ▼ to select the Manual option then press ENTER.**



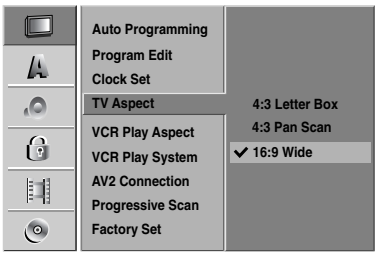
3 **Enter the necessary information for date and time.**
◄ / ► (left/right): Moves the cursor to the previous or next column.
▲ / ▼ (up/down): Changes the setting at the current cursor position.

4 **Press ENTER to confirm your setting, then press SYSTEM MENU to exit the Setup menu.**

TV Aspect

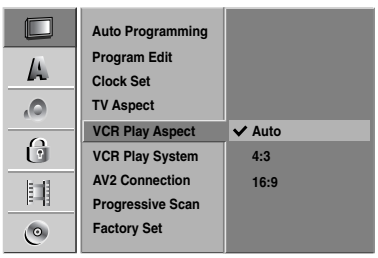
To record a wide screen format programme successfully the correct type of wide screen signal must be broadcast by the TV station.

You can choose:
4:3 Letter Box: Select when a standard 4:3 TV is connected. Displays theatrical images with masking bars above and below the picture.
4:3 Pan Scan: Select when a standard 4:3 TV is connected. The video material formatted in the Pan & Scan style is played back in that style (Both sides of the picture are cut off).
16:9 Wide: Select when a 16:9 wide TV is connected.



VCR Play Aspect

You can choose:
AUTO : Automatically plays back Wide-Screen programmes as Wide-Screen and Normal programmes as normal.
4:3 : Only for playing back Normal format recordings (4:3).
16:9: Only for playing back Wide-Screen format recordings (16:9).



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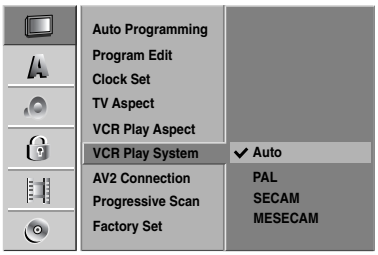
English

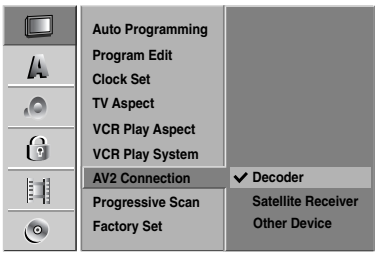
VCR Play System

Your video recorder uses triple colour standards, PAL, MESECAM and SECAM-L. During play your video recorder should select the colour system automatically, however if you experience problems you may need to do it manually.



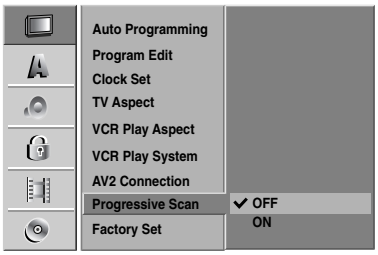
AV2 Connection

You can connect a decoder, satellite receiver or other device to the EURO AV2 socket on the back.



Progressive Scan

Progressive Scan Video provides the highest quality pictures with less flickering.
If you are using the COMPONENT/PROGRESSIVE SCAN VIDEO OUT jacks, but are connecting the recorder to a standard (analog) television, set Progressive Scan to OFF.
If you are using the component video jacks for connection to a TV or monitor that is compatible with a progressive scan signal, set Progressive Scan to ON.



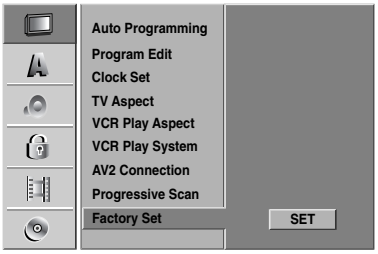
Note
Progressive Scan will not be set when the VIDEO OUTPUT switch is set at RGB position.

Caution
Once the setting for progressive scan output is entered, an image will only be visible on a progressive scan compatible TV or monitor. If you set Progressive Scan to On in error, you must reset the unit.
1) Remove any disc from the unit and close the disc tray.
2) Press STOP and hold it for five seconds before releasing it. The video output will be restored to the standard setting and a picture will once again be visible on a conventional analog TV or monitor.

Factory Setting

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

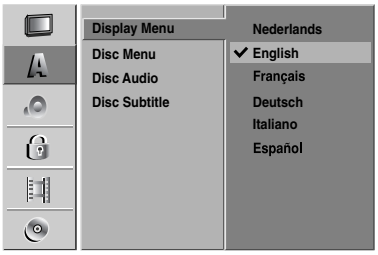
Note
Some options can not be reset. (Auto Programming, Clock Set, Set Password, Movie Rating, Country Code, and Disc Protect)



LANGUAGE

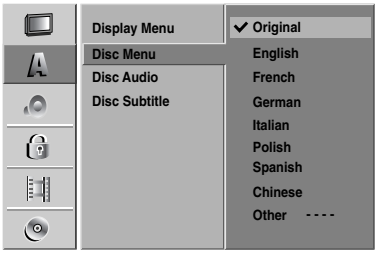
Display Language

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



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 56. If you make a mistake before pressing ENTER, press ◄ repeatedly to delete one by one and correct it.



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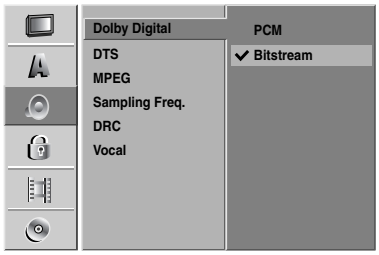
AUDIO

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.

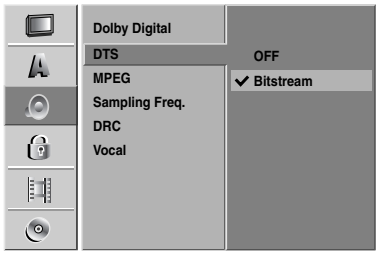
Dolby Digital

PCM: Select when connected to a 2-channel digital stereo amplifier. The 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 Recorder's DIGITAL OUT jack to a Dolby Digital decoder (or an amplifier or other equipment with a Dolby Digital decoder).



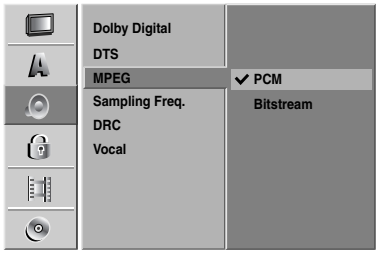
DTS

OFF: If you select "OFF", the DTS signal is not output through the DIGITAL OUT jack.
Bitstream: Select "Bitstream" if you connected the Recorder's DIGITAL OUT jack to a DTS decoder (or an amplifier or other equipment with a DTS decoder).



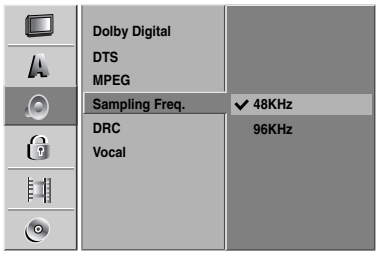
MPEG

PCM: Select when connected to a 2-channel digital stereo amplifier. The 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 Recorder's DIGITAL OUT jack to a MPEG decoder (or an amplifier or other equipment with a MPEG decoder).



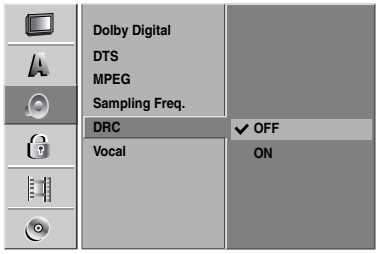
Sampling Frequency

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.



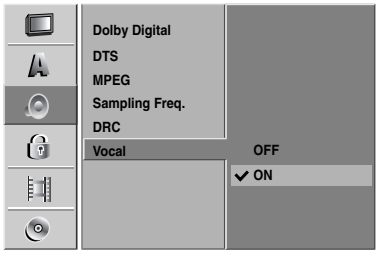
DRC (Dynamic Range Control)

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.



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.



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English

LOCK (Parental Control)

Set Password

To access the Movie Rating, Set Password and Country Code features, you must enter a 4-digit security password.

1 **Press SYSTEM MENU.**
The Setup menu appears.

2 **Use ▲ / ▼ to select the LOCK option.**

3 **While the LOCK option is selected, press ► to move to the second level.**

4 **Use ▲ / ▼ to select the Set Password option.**

5 **Press ► to move to the third level.**

6 **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. Enter the 4-digit password again to verify.

When you have already entered a password;
You can change or delete the password.
Use ▲ / ▼ to select “Change” or “Delete” then press ENTER.

Change : Enter a 4-digit password using the numbered buttons to confirm the personal 4-digit security password, then enter a 4-digit new password twice.

Delete : Enter a 4-digit password using the numbered buttons to confirm the personal 4-digit security password.

Tip

If you make a mistake, 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 SYSTEM MENU to display the Setup menu.
2. Use the Number buttons to enter the 5-digit number “21019”.
3. Select “Yes” then press ENTER. The 4-digit password is cleared. Enter a new code as shown above.

Movie 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.

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

2 **Use ▲ / ▼ to select the Movie Rating option.**

3 **Press ► to move to the third level.**

4 **Enter a 4-digit password using the numbered buttons to confirm the personal 4-digit security password.**

5 **Select a rating from 1 to 8 using the ▲ / ▼ 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.

6 **Press ENTER to confirm your rating selection, then press SYSTEM MENU to exit the menu.**

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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 57.).

1 **Press SYSTEM MENU.**
The Setup menu appears.

2 **Use ▲ / ▼ to select the LOCK option.**

3 **While the LOCK option is selected, press ► to move to the second level.**

4 **Use ▲ / ▼ to select the Country Code option.**

5 **Press ► to move to the third level.**

6 **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. Enter the 4-digit password again 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.

Tip

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

7 **Select the first character using the ▲ / ▼ buttons.**

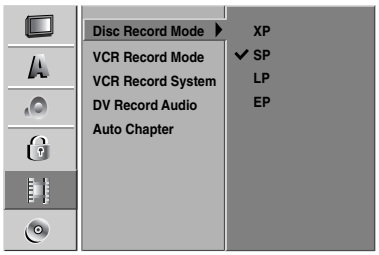
8 **Shift the cursor using ► buttons and select the second character using ▲ / ▼ buttons.**

9 **Press ENTER to confirm your country code selection, then press SYSTEM MENU to exit the menu.**

RECORD

Disc Record Mode

You can set the picture quality for DVD recording; XP (High Quality), SP (Standard Quality), LP (Low Quality), EP (Extend Quality).



1 **Press SYSTEM MENU.**
The Setup menu appears.

2 **Use ▲ / ▼ to select the RECORD option.**

3 **While the RECORD option is selected, press ► to move to the second level.**

4 **Use ▲ / ▼ to select the Disc Record Mode option.**

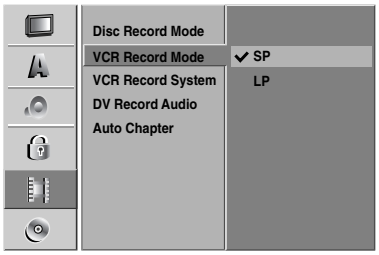
5 **Press ► to move to the third level.**

6 **Use ▲ / ▼ to select a desired Record Mode (XP, SP, LP or EP)**

7 **Press ENTER to confirm your selection, then press SYSTEM MENU to exit the menu.**

VCR Record Mode

You can set the picture quality for VCR recording; SP (Standard Play), LP (Long Play).



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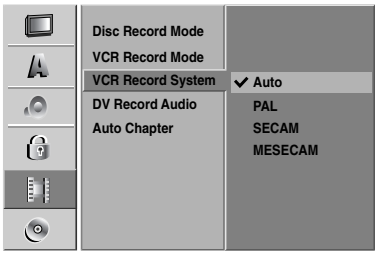
English

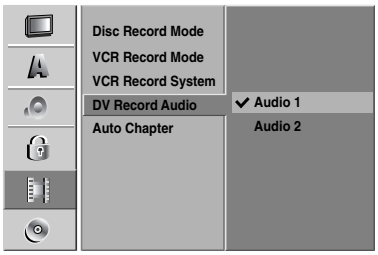
VCR Record System

Your video recorder uses triple colour standards, PAL, SECAM and MESECAM. During recording your video recorder should select the colour system automatically, however if you experience problems you may need to do it manually.



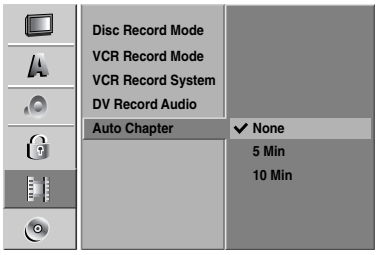
DV Record Audio

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.



Auto Chapter

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



DISC

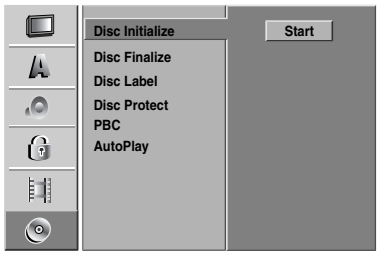
Disc Initialize

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

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.



1 **Press SYSTEM MENU.**
The Setup menu appears.

2 **Use ▲ / ▼ to select the DISC option.**

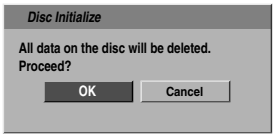
3 **While the DISC option is selected, press ► to move to the second level.**

4 **Use ▲ / ▼ to select the Disc Initialize option.**

5 **Press ► to move to the third level.**
Start icon is highlighted.

6 **Press ENTER.**
Disc Initialize menu appears.

7 **Use ◄ / ► to select “OK” then press ENTER.**
It takes a few moments to format the disc.



⚠**Caution**

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

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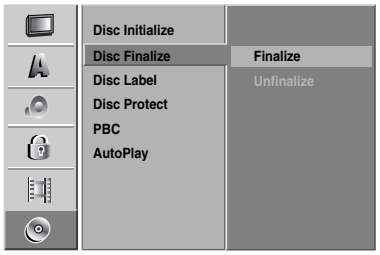
Disc Finalize

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 LIST/DISC MENU or TITLE.

⚠Caution

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

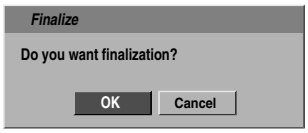


1 Follow steps 1-3 as shown on page 28 (Disc Initialize).

2 Use ▲ / ▼ to select the Disc Finalize option.

3 Press ► to move to the third level.
Finalize is highlighted.

4 Press ENTER.
Finalize menu appears.



5 Select OK then press ENTER.
The recorder starts finalizing the disc.

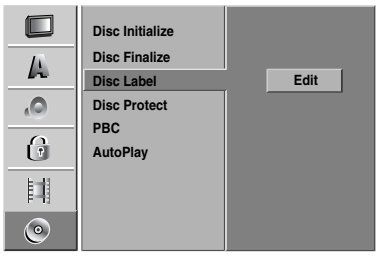
Note
How long finalization takes depends on the type of disc, how much is recorded on the disc, and the number of titles on the disc. A disc recorded can take up to 8 minutes or more to finalize.

Tip
If you load a DVD+RW that has already been finalized, you can 'unfinalize' it by choosing Unfinalize from the Disc 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 Recorder, you will see only a limited character set.

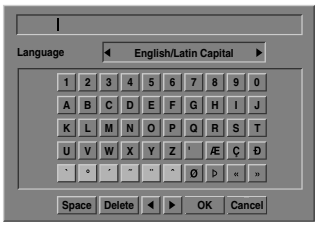


1 Follow steps 1-3 as shown Disc Initialize on page 28.

2 Use ▲ / ▼ to select the Disc Label option.

3 Press ► to move to the third level.
Edit icon is highlighted.

4 Press ENTER.
Keyboard menu appears.



5 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 22 (Station Rename).

Tip 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.

I◄ / ►I: Moves cursor to left or right.

Numbers (0~9): Enters the character of corresponding location on the selected column.

LIST/DISC MENU, DISPLAY: Switches the keyboard type (English/Latin Capital, English/Latin Lowercase, Symbols)

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

7 Press SYSTEM MENU to exit the menu.

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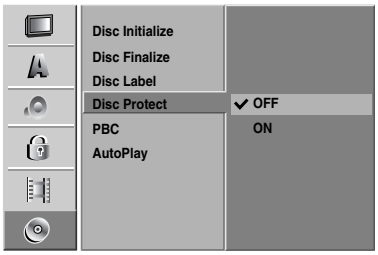
English

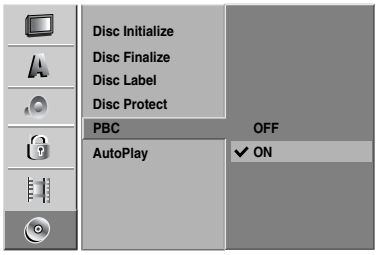
Disc Protect

When recording in DVD+RW / +R 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.



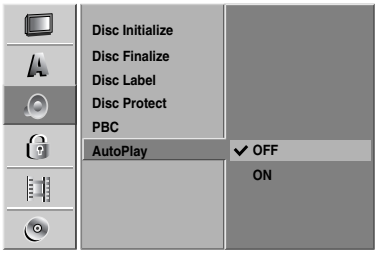
PBC

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 Play

You can set up the Recorder so a DVD disc automatically starts playing whenever the DVD is inserted.
If Auto Play mode is set to On, this Recorder will search for title that has the longest playback time and then play back the title automatically.
ON: Auto Play function is active.
OFF: Auto Play function is not active.



Note
The Auto Play function may not work for some DVDs.

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General Explanation of On-Screen Display

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

Displaying Information on-screen

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

1 Press DISPLAY repeatedly to display/change the information displayed on-screen.

2 To remove the on-screen display, press DISPLAY or RETURN(↶) repeatedly until it disappears.
See the descriptions on next pages for detailed explanation during playing.

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 7 seconds, the on-screen display disappears.

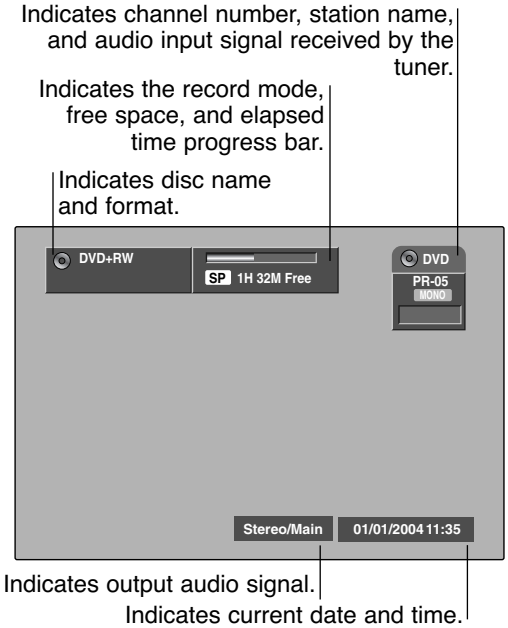
Temporary Feedback Field Icons

▮▮■ Resume play from this point

⊘ Action prohibited or not available

Displaying Information While Watching TV

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



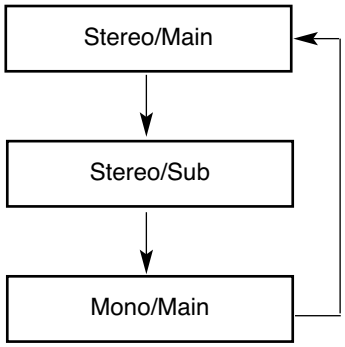
Changing TV Channels

If no disc or tape is playing, you can change TV channels using the number or ▲ / ▼ buttons on the remote control, or the CHANNEL (▲ / ▼) buttons on the front panel.

Changing TV Audio Channel

Some TV programs are broadcast with a bilingual audio program (BIL). You can change the TV audio using the AUDIO button.

Press AUDIO repeatedly to change the TV audio as shown below.



The current audio channel is displayed on-screen.

- For the detailed information, refer to the step 4 on page 43.
- If the sound is poor quality when set to Stereo, you can often improve it by changing to Mono.
- When an external input is selected, the audio channel can be switched only to Stereo.

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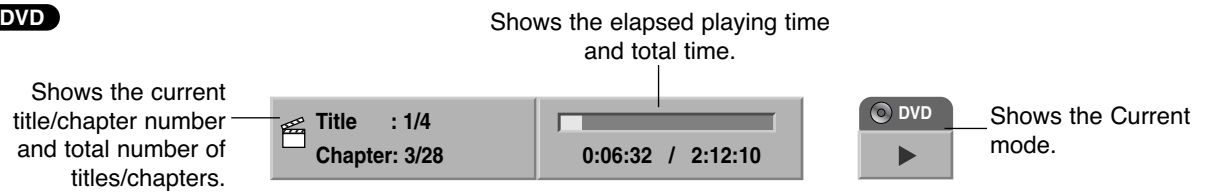
Before Operation (Continued)

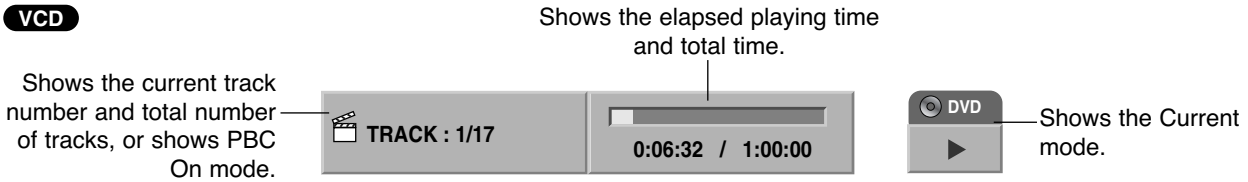
Displaying Information on-screen (Continued)

DVD



Menu Options		Function (Use ▲ / ▼ to select desired option)	Selection Method
Title Number	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
Audio language and Digital Audio Output mode	1. 5.1CH ENG	**Shows the current audio soundtrack language, encoding method, and channel number, and** changes the setting.	◄ / ►
Subtitle language	OFF	**Shows the current subtitles language, and** changes the setting.	◄ / ►
Angle	1/3	**Shows the current angle number and total number of angles, and** changes the angle number.	◄ / ►
Sound	3D SUR.	**Shows the current sound mode, and** changes the setting.	◄ / ►

VCD



Menu Options		Function (Use ▲ / ▼ 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	0:10:30	**Shows the elapsed playing time (Display only)**.	–
Audio Channel	STEREO	**Shows the audio channel, and** changes the audio channel.	◄ / ►
Sound	3D SUR.	**Shows the current sound mode, and** changes the setting.	◄ / ►

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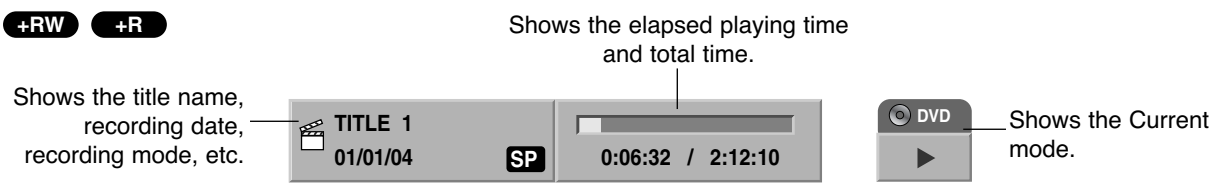
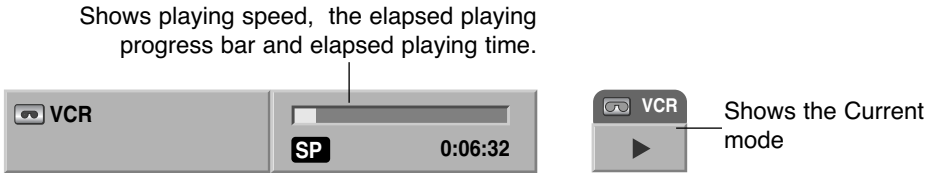
Displaying Information on-screen (Continued)

+RW +R



Menu Options		Function (Use ▲ / ▼ to select desired option)	Selection Method
Title Number	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	2CH 1. L+R	**Shows the current audio encoding method, and channel number, and** changes the setting.	◄ / ►
Sound	3D SUR.	**Shows the current sound mode, and** changes the setting.	◄ / ►

VHS



Menu Options		Function (Use ▲ / ▼ to select desired option)	Selection Method
Time	0:00:20	**Shows the elapsed playing time (Display only)**.	–
Audio Channel	HIFI	**Shows the audio channel, and** changes the audio channel.	◄ / ►

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English

Playing a DVD or Video CD

Playback Setup

- Before using the remote control, press the **DVD** button to select the device to be operated.
- Turn the TV on and select the video input source connected to the Recorder.
- Audio system: Turn the audio system on and select the input source connected to the Recorder.

1 **Press OPEN/CLOSE (⏏) to open the disc tray.**

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

3 **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.

Tip

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 LIST/DISC MENU to return to the menu screen.

VCD

- Use the number buttons to select the track you want to view.
  Press RETURN 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 30.

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 “Movie Rating”, on page 26).
– 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

DVD +RW +R

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

DVD +RW +R VCD

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

- Press PREV/NEXT (I◄ or ►I) briefly during playback to select the next chapter/track or to return to the beginning of the current chapter/track.
- Press PREV (I◄) twice briefly to step back to the previous chapter/track.
- To go directly to any chapter/track during playback, press DISPLAY twice. 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 +RW +R VCD

1 Press REW (◄◄) or FWD (►►) during playback.
The recorder will now go into SEARCH mode.
2 Press REW (◄◄) or FWD (►►) to select the required speed: ◄ (Reverse play), ◄◄, ◄◄◄, ◄◄◄◄, ◄◄◄◄◄, ◄◄◄◄◄◄ (backward) or ►►, ►►►, ►►►►, ►►►►►, ►►►►►► (forward).
With a Video CD, the Search speed changes: ◄◄, ◄◄◄, ◄◄◄◄ (backward) or ►►, ►►►, ►►►► (forward).
3 To exit SEARCH mode, press ► (PLAY).

Still Picture and Frame-by-Frame Playback

DVD +RW +R VCD

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

Note

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

Tip

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

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General Features (Continued)

Slow Motion

DVD +RW +R VCD

1 Press PAUSE/STEP (❚❚) during playback.
The recorder will now go into PAUSE mode.
2 Press REW (◀◀) or FWD (▶▶) during PAUSE mode.
The DVD Recorder will enter SLOW mode.
3 Use the REW (◀◀) or FWD (▶▶) to select the required speed: ◀❚ 1/16, ◀❚ 1/8, ◀❚ 1/4, or ◀❚ 1/2 (backward), or ❚▶ 1/16, ❚▶ 1/8, ❚▶ 1/4, or ❚▶ 1/2 (forward).
With a Video CD, the Slow speed changes: ❚▶ 1/8, ❚▶ 1/4 or ❚▶ 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 SHUFFLE during playback.
The unit automatically begins Random Playback and "SHUFFLE" appears on the TV screen.
2 To return to normal playback, press SHUFFLE until "NORMAL" appears on the TV screen.

Tip

By pressing NEXT ▶❚ 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 30.

Repeat REPEAT CHAPTER

DVD +RW +R VCD

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 .
- 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.

Note

On a Video CD with PBC, you must set PBC to OFF in the Setup menu to use the Repeat function. See page 30.

Repeat A-B REPEAT A - B

DVD +RW +R VCD

To repeat a sequence in a title:

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

Time Search 0:10:30

DVD +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 7 seconds, use ▲ / ▼ to select the Time Search icon in the on-screen display.
The "-:--:--" appears in the Time Search box.
3 Within 7 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 ◀ / ▶ to move the under bar (_) to the wrong number. Then enter the correct numbers.
4 Within 7 seconds, press ENTER to confirm the start time.
Playback starts from the selected time on the disc.

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English

General Features (continued)

Zoom

DVD +RW +R

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

1 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.

Marker Search

MARKER 1 / 6

DVD +RW +R VCD

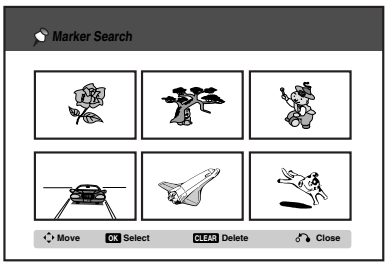
You can start playback from a memorized point. Up to six points can be memorized.
To enter a mark, follow these steps.

1 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 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. Continue?" 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 LIST/DISC MENU. Then, press the appropriate number button to select an option. Or, use the ◄ ► ▲ ▼ 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 LIST/DISC MENU.
The disc menu is displayed.

2 To remove the disc menu, press LIST/DISC MENU again.

Camera Angle 1/3 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.

Tip
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

5.1CH 1. ENG DVD

Press AUDIO then press ◄ / ► repeatedly during playback to hear a different audio language or audio soundtrack if available.

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Changing the Audio Channel

VCD +RW +R

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

3D Surround

DVD +RW +R VCD

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 multi-channel audio from a home theater system.

1 Press DISPLAY twice then use ▲ / ▼ to select the sound icon. Then, use ◄ / ► to select “3D SUR.”.

2 To turn off the 3D Surround effect, select “NORMAL”.

Subtitles

DVD

Press SUBTITLE then press ◄ / ► repeatedly during playback to see the different subtitle languages.

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 ◄ / ► 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

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.

Notes

– 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.

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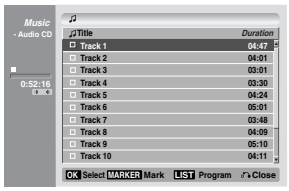
English

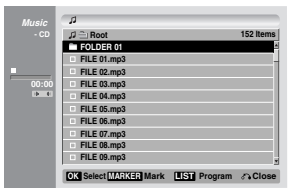
Playing an Audio CD or MP3 Disc CD MP3

The Recorder can play audio CDs. Also, the Recorder can play MP3 formatted recordings on CD-ROM, CD-R, CD-RW, DVD+R or DVD+RW disc.
Before playing MP3 recordings, read the notes on MP3 Recordings on page 39.

1 Insert a disc and close the tray.
AUDIO CD or MP3 CD menu appears on the TV screen.



AUDIO CD Menu



MP3 CD Menu

2 Use ▲ / ▼ 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.

Tips

- You can view TV channel or video input source by pressing RETURN. If you want to return to the Music menu, press LIST/DISC MENU.
- You can switch between the Track List and Program List menus by pressing LIST/DISC MENU.
- 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 repeatedly in Stop mode.
- If you select a MP3 and press DISPLAY, the file informations are displayed. Press DISPLAY again to remove the file informations.
  If you select a folder and press DISPLAY, the number of subfolders and number of MP3 files in the folder are displayed.
- If you are in a file list and want to return to the Folder list, use the ▲/▼ to highlight .. and press ENTER to return to the previous menu screen.

3 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	**Play:** Starts playback the selected track.
Program Add	**Program Add:** Adds the track(s) to Program List. (page 40)

Music-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 Program List. (page 40)

- **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 the folder to Program List. (page 40)

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Pause CD MP3

1 Press PAUSE/STEP (❚❚) during playback.

2 To return to playback, press ► (PLAY) or press PAUSE/STEP (❚❚) again.

Moving to Another Track CD MP3

- Press PREV ⏮ or NEXT ⏭ briefly during playback to go to the next track or to return to the beginning of the current track.
- Press PREV ⏮ 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 SHUFFLE during playback or in stop mode. The unit automatically begins Random Playback and “SHUFFLE” appears on the menu screen.

2 To return to normal playback, press SHUFFLE repeatedly until “SHUFFLE” disappears from the menu screen.

Tip

By pressing NEXT ⏭ during Random playback, the unit selects another track and resumes Random playback.

Changing the Audio Channel

CD MP3

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

Search CD

1 Press REW (◄◄) or FWD(►►) during playback.
The recorder will now go into SEARCH mode.

2 Press REW (◄◄) or FWD(►►) to select the required speed: ◄◄, ◄◄◄, ◄◄◄◄ (backward) or ►►, ►►►, ►►►► (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 REPEAT A-B at your chosen start point.
Repeat icon and ‘A-’ appears on the menu screen.

2 Press REPEAT 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 REPEAT 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”.
2. 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 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.

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Programmed Playback with Audio CD and MP3

English

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).

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

2 Use ▲▼ to select a track or folder on the List then press ENTER.
The options appears on the left side of the menu.

3 Use ▲▼ to highlight the "Program Add" icon then press ENTER.
The selected track is added to the Program List.

4 Repeat steps 2-3 to place additional tracks on the Program list.

Tip

You can add multi tracks on the List to the Program List.

1. Select a track then press MARKER.
2. Repeat step 1 to mark additional tracks.
3. Select any track then press ENTER.
   The options appears on the left side of the menu.
4. Use ▲ / ▼ to highlight the "Program Add" icon then press ENTER.
   The all marked tracks are added to the Program List.

Notes

- Use the CLEAR button to select all tracks, or cancel all marked tracks.
- If you select folder for Programmed Playback, all tracks in the folder are added to the program list.

5 AUDIO CD : Use ► to move to the Program list.

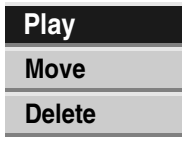
6 Use ▲ / ▼ to select the track you want to start playing.

7 Press PLAY (►) to start.
Playback begins in the order in which you programmed the tracks and "PRG" indicator appears on the display window.
Playback stops after playing the last programmed track on the program list.

8 To resume normal playback from programmed playback, select a track on the List then press PLAY (►).
"PRG" indicator disappears from the display window.

Program List menu options CD MP3

1. 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.
2. Use ▲ / ▼ to select an option then press ENTER to confirm your selection.



Play: Playback begins in the order in which you programmed the tracks from the selected track.

Move: Moves the track(s) to change the program order.

Delete: Deletes the track(s) 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.

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

Changing Track Order in the Program List

1. Select the track you wish to move.

   Tip
   Use the MARKER button to select multiple tracks.
2. 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.
4. Use ▲ / ▼ to move the yellow bar to the desired location, then press ENTER.
   The selected track is moved.

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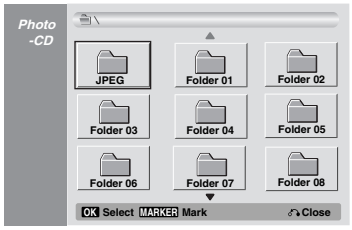
Viewing a JPEG File JPEG

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

1 Insert a disc and close the tray.
The Photo menu appears on the TV screen.



2 Use ▲▼◄► to select a folder, then press ENTER.
Open icon is highlighted on the left side of the menu.

3 Press ENTER.
A list of files in the folder appears.

Note

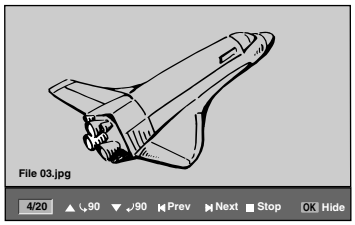
If the ? icon displays in the Photo menu, it means you cannot see those JPEG files.

4 Use ▲▼◄► to select a file, then press ENTER.
The options appear on the left side of the menu.

Tip

- If you are in a file list and want to return to the Folder list, use the ▲ / ▼ buttons on the remote to highlight the .. icon and press ENTER.
- You can view TV channel or video input source by pressing RETURN. If you want to return to the Photo menu, press LIST/DISC MENU.
- 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 repeatedly in Stop mode.

5 Use ▲ / ▼ to select “Full Screen” option then press ENTER.



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

Skip Images

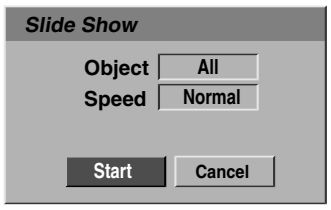
While viewing a picture, press PREV ⏮ or NEXT ⏭ once to advance to the next file or return to the previous file.

Rotate Images

Use ▲ / ▼ 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.
   The Slide Show menu appears.



3. Use ▲▼◄► 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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VCR Mode Tape Playback

Preparation

- Before using the remote control, press the **VCR** button to select the device to be operated.
- Turn the TV on and select the video input source connected to the Recorder.
- Audio system: Turn the audio system on and select the input source connected to the Recorder.

Normal Playback VHS

1 Insert a prerecorded video cassette.
The ⊂⊃ indicator will light and the Recorder will power-up automatically.
- Make sure that the TIMER indicator in the display window is not lighted. If it is, press **STANDBY-ON** once.
- If a tape without a safety tab is inserted, the Recorder will start playback automatically.

2 Press PLAY (►) once.
PLAY icon appears on the TV screen.
- It is not necessary to select the tape speed for playback. It will be automatically selected by the Recorder.

3 Press STOP (■) to stop playback.
STOP icon appears on the TV screen.
If the tape reaches the end before STOP (■) is pressed, the Recorder will automatically stop, rewind and eject the tape, and turn itself off.

Tracking Control VHS

Auto Tracking
The automatic tracking function adjusts the picture to remove snow or streaks.
The AUTO TRACKING function works in the following cases:
- A tape is played back for the first time.
- Tape speed (SP, LP) changes.
- Streaks or snow appear because of scratches on the tape.

Manual Tracking
If noise appears on the screen during playback, press either ▲/▼ on the remote control or
CHANNEL (▲/▼) on the front panel until the noise on the screen is reduced.
- In case of vertical jitter, adjust these controls very carefully.
- Tracking is automatically reset to normal when the tape is ejected or the power cord is unplugged for more than 3 seconds.

Special Effect Playback VHS

Special effects playback notes
- Horizontal lines (noise bars) will appear on the TV screen. This is normal.
- The audio is automatically muted during special effect modes, so there is no sound during search.
- During the high-speed picture search modes, a short time is needed to stabilize tape speed when re-entering the PLAY mode. Slight interference may be observed during this time.

Search
This function lets you visually search forward and backward for a desired scene on your tape.
1 Press REW (◄◄) or FWD (►►) during playback.
The Recorder will be activated in the SEARCH mode.
- If the Recorder is left in the SEARCH mode for more than 3 minutes, the Recorder will automatically enter the PLAY mode, to protect the tape and video heads.

2 To return to playback, press PLAY (►).

Still Picture and Frame-by-Frame Playback
1 Press PAUSE/STEP (❚❚) during playback.
A still picture appears on the TV screen.
- If a still picture vibrates vertically, stabilize it by using ▲/▼ on the remote control.
- If the Recorder is left in the STILL mode for more than 5 minutes, the Recorder will automatically enter the STOP mode to protect the tape and video heads.

2 Press PAUSE/STEP (❚❚) repeatedly to advance the video picture one frame at a time while viewing a still picture.
3 To return to playback, press PLAY (►).

Slow Motion
1 While in still mode, press FWD (►►).
The tape will be played back at a speed 1/19 times slower than the normal speed.
- During slow playback, use ▲/▼ on the Remote Control to minimize noise bands.
- If slow motion mode continues for more than 3 minutes, the Recorder will automatically change to normal play mode.

2 To return to playback, press PLAY (►).

Counter Memory Function
This is useful if there is a section of tape you want to view immediately after recording or if you want to return to the same point several times.
1 Begin recording or playing a tape.
2 Press DISPLAY repeatedly to display the real-time counter on the TV screen.
3 At the point you want to locate later, reset the real-time counter to 0:00:00 by pressing CLEAR.
Continue to play or record.
4 Press STOP when recording or playback finishes.
5 Press RETURN.
The tape automatically stops when the tape counter returns to about “0:00:00”.

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Basic Recording from a TV

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

1 Switch on the Recorder, select the device (VCR or DVD) for Recording and load a recordable disc or tape.
Also make sure that the TV input is set to this recorder.

2 Set a recording mode as necessary by pressing REC MODE repeatedly.
DVD: SP (Standard quality), LP (Low quality), XP(High quality), EP (Extended quality)
VCR: SP (Standard Play), LP (Long Play)

3 Use CHANNEL (▲/▼) on the front panel or ▲/▼ on the remote control to select the TV channel to record.

4 Use AUDIO to select the audio channel to record.
The table below shows what will be recorded on the different settings for different types of broadcast. The last column (Monitor Audio) shows what you'll hear as it is recording.

TV Broadcast Audio	Selected Audio	Broadcast Audio				Monitor Audio
		Tape		+R or +RW mode		
		L Ch	R Ch	L Ch	R Ch	
STEREO	STEREO/MAIN	STEREO		STEREO		STEREO
	STEREO/SUB	STEREO		STEREO		STEREO
	MONO/MAIN	MONO		MONO		MONO
MAIN+SUB	STEREO/MAIN	MAIN	SUB	MAIN	MAIN	MAIN
	STEREO/SUB	MAIN	SUB	SUB	SUB	SUB
	MONO/MAIN	MAIN	SUB	MAIN	MAIN	MAIN
MONO	STEREO/MAIN	MONO		MONO		MONO
	STEREO/SUB	MONO		MONO		MONO
	MONO/MAIN	MONO		MONO		MONO

5 Press REC (●) once.
Recording will start. (The REC indicator lights in the display window.)
- Recording continues until you press STOP (■) or the disc (or tape) is full.
- To record for a fixed length of time, see Instant Timer Recording on right.

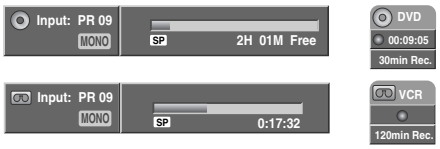
6 Press STOP (■) to stop recording.

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 1-5 as shown left (Basic Recording from a TV).

2 Press REC (●) repeatedly to select the recording time length.
Recording starts after the first press.
DVD: Each subsequent press increases the recording time by 10 minutes within free space.
VCR: Each subsequent press increases the recording time by 30 minutes. Please confirm the VHS tape has enough remaining time to be recorded before recording.



Instant Timer Record Menu

Checking the Recording Time

Press REC (●) or DISPLAY 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 (●).
Each subsequent press increases the recording time by 10 minutes (DVD) within free space or 30 minutes (VCR).

To Pause the Recording

1 Press PAUSE/STEP (❚❚) to pause the disc or tape during recording.
2 When you want to continue recording, press PAUSE/STEP (❚❚) or REC (●).

Notes
- If you press PAUSE/STEP (❚❚) during the Instant Timer Recording, it will be canceled.
- The Recorder will automatically power off when the Instant Timer Recording ends.

To record one TV program while watching another

1 Press MODE to select the TV mode during recording. The TV indicator appears.
2 Using the TV remote controller, select the channel to be viewed.

Tips (VCR mode only)
Always use PAUSE/STEP (❚❚) for best results when making changes during recording .
For example: To change channels during recording, first press PAUSE/STEP (❚❚) to put the unit in pause mode. Then select the desired channel on the Recorder, and press PAUSE/STEP (❚❚) again to resume recording.

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Basic Recording (Continued)

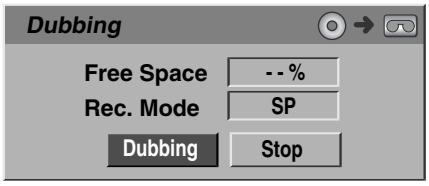
Copying from DVD to VCR

You can copy the contents of a DVD to a VHS tape using the D.DUBBING (or DIRECT DUBBING) button.

Note

If the DVD (or Discs) you are attempting to copy is copy protected, you will not be able to copy the disc. It is not permitted to copy Macrovision encoded DVDs (or Discs).

1. **Insert a VHS Tape**
   Insert a blank VHS video tape into the VCR deck.
2. **Insert a Disc**
   Insert the disc you wish to copy in the DVD deck and close the disc tray.
3. **Select DVD mode by pressing DVD on the remote control or pressing SOURCE on the front panel.**
4. **Find the place on the DVD (or Disc) from which you want to start recording using the PLAY and PAUSE functions.**
   For best results, pause playback at the point from which you want to record.
5. **Press the D.DUBBING button on the remote control or press DIRECT DUBBING button on the front panel.**
   The Dubbing menu appears.



6. **Use ▲ / ▼ / ◄ / ► to select the desired Record Mode:**
   - **SP (Standard Play)**
   - **LP (Long Play, 2 times SP).**
7. **Select Dubbing then press ENTER or D.DUBBING (or DIRECT DUBBING) to start copying.**

Tip

If you press PAUSE/STEP during Copy mode, both the DVD and VCR decks go into Pause mode and the "DUB" indicator blinks on the front panel display. While in Pause mode, you can adjust the DVD playback position using PLAY, REW, FWD, PAUSE/STEP, etc. The VCR deck will remain in Pause mode. To resume copying, press the D.DUBBING (or DIRECT DUBBING) button twice.

8. **Stop the Copy Process**
   To stop copying at any other time, press STOP (■). You must stop the Copy process manually when the DVD movie ends, or the unit may replay and record over and over again.

Copying from VCR to DVD

You can copy the contents of a VHS tape to a recordable DVD disc using the D.DUBBING (or DIRECT DUBBING) button. This allows you to archive your old VHS tapes to DVD.

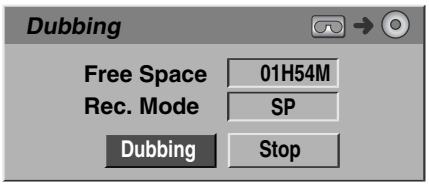
Note

If the VHS video tape you are attempting to copy is copy protected, you will not be able to copy the tape. It is not permitted to copy Macrovision encoded tapes.

1. **Insert a recordable DVD disc.**
   Insert a blank recordable DVD disc in the DVD deck and close the disc tray.
2. **Insert a VHS Tape**
   Insert the VHS video tape you wish to copy into the VCR deck.

   Note

   When using a DVD+RW disc, you must initialize before copying; see page 28.
3. **Select VCR mode by pressing VCR on the remote control or pressing SOURCE on the front panel.**
4. **Find the place on the VHS tape from which you want to start recording using the PLAY, REW, FWD and PAUSE functions.**
   For best results, pause playback at the point from which you want to record.
5. **Press the D.DUBBING button on the remote control or press DIRECT DUBBING button on the front panel.**
   The Dubbing menu appears.



6. **Use ▲ / ▼ / ◄ / ► to select the desired Record Mode:**
   - **EP (Extended Quality)**
   - **LP (Low Quality)**
   - **SP (Standard Quality)**
   - **XP (High Quality)**
7. **Select Dubbing then press ENTER or D.DUBBING (or DIRECT DUBBING) to start copying.**

Tip

If you press PAUSE/STEP during Copy mode, both the DVD and VCR decks go into Pause mode and the "DUB" indicator blinks on the front panel display. While in Pause mode, you can adjust the VCR playback position using PLAY, REW, FWD, PAUSE/STEP, etc. The DVD deck will remain in Pause mode. To resume copying, press the D.DUBBING (or DIRECT DUBBING) button twice.

8. **Stop the Copy Process**
   To stop copying at any other time, press STOP (■). Copying will stop automatically when the VHS tape ends.

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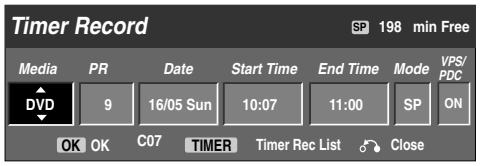
This Recorder can be programmed to record up to 8 programs within a period of 1 month.

1 **Press TIMER.**
The Timer Record menu will appear.



- **Media** – Choose a media (DVD or VCR).
- **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, or select a daily or weekly program.
- **Start Time** – Set the recording start time.
- **End Time** – Set the recording end time.
- **Mode** – Choose a record mode.
  DVD: SP, LP, EP, XP, or AT (Auto)
  VCR: SP, LP, AT (Auto)
  AT (Auto) mode determines how much time is available on the disc or tape and switches record mode, if necessary, to complete recording the program.
- **VPS/PDC** – The VPS/PDC system automatically adjusts the recording time so that even if a program is not running to schedule, you won't miss it. For VPS/PDC to work properly, you must input the correct announced time and date of the program you want to record.
  Note that VPS/PDC may not work with every station.

Notes

- Stations that use VPS/PDC typically include VPS/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 VPS/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 to exit the Timer Record menu.
- Press TIMER to display Timer Record List.

3 **Press ENTER to save the program.**
The Timer Record List will appear.

4 **Press RETURN (↶) to exit the Timer Record List.**

5 **Make sure that you load a recordable disc or tape and press STANDBY-ON to switch your unit to Standby.**

Notes

- The Timer indicator lights on the front panel display.
- If the Disc and Tape indicator are blinking, either no disc or tape is loaded, or the loaded disc is not recordable.
- The Recorder will record the audio according to the current TV tuner setting (Stereo, Mono or Bilingual).
  Use the AUDIO button to set the audio before switching the Recorder to Standby mode.
- You must press STANDBY-ON to stop the Timer Recording.
- The Recorder will automatically power off when the Timer Recording ends.
- There is a short delay when a timer recording finishes to confirm the recorded program. If two timer recordings are set to record sequentially (one right after the other), the very beginning of the later program may not be recorded.
- The Recommendable DVD discs :

DVD-R	DVD+R	DVD-RW	DVD+RW
SONY	SONY	SONY	SONY
TDK	TDK	TDK	TDK
Imation	Imation	Imation	Imation
Verbatim	MAXELL	Verbatim	Verbatim
RiDATA	RiDATA	Memorex	RiDATA
Panasonic	Fujifilm	Fujifilm	Fujifilm
LG	Ricoh	LG	Ricoh
Mitsubishi	HP	Mitsubishi	HP
That's	That's	Samsung	Ritek
Pioneer	Philips	Pioneer	Radus

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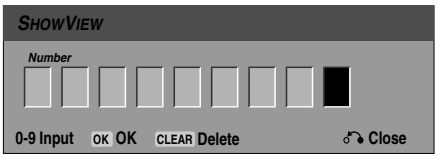
Timer Recording with SHOWVIEW® System

English

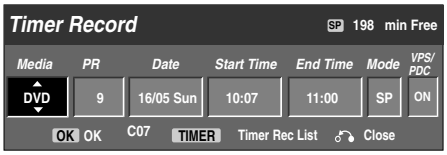
This system makes programming timer recordings very simple. Most TV guides publish SHOWVIEW programming numbers with their program details.If you want to make a timer recording of a program, you just input the corresponding SHOWVIEW programming number. The date, start, stop and channel settings are made automatically. All you have to do is tell the recorder the recording mode and quality, and whether it's a once-only recording, or a regular recording.
Up to 8 timer programs can be stored in the recorder.

1 Press SHOWVIEW.
The SHOWVIEW menu will appear.
Press SHOWVIEW again to exit the menu.



2 Use the number buttons then press ENTER to enter the SHOWVIEW programming number.
- If you make a mistake before pressing ENTER, press CLEAR repeatedly to delete password numbers one by one then correct it.

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

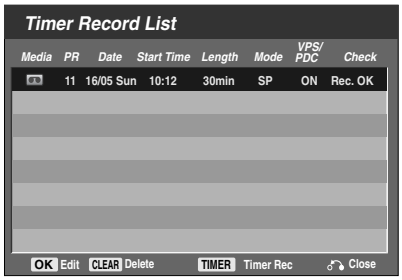


You can change the settings as required (Mode, VPS/PDC, etc.)

3 Follow steps 2-5 as shown on previous page (Timer Recording).

Checking Timer Recording Details

Programming can be checked whenever the Recorder is turned on. Press TIMER 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 STANDBY-ON.

Timer Recording Troubleshooting

Even though the timer is set, the recorder will not record when:
- There is no disc (or tape) loaded.
- A non-recordable disc (or tape) is loaded.
- Disc Protect is set to ON in the Setup menu (see page 30).
- Power is turned on. (Please ensure that the set is in Standby mode for Timer recording to activate.)
- There are already 49 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 8 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.

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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.

1 Make sure that the component you want to record from is connected properly to the Recorder. See page 19.

2 Press INPUT 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 front panel
- AV3 : AV3 IN (VIDEO, AUDIO (L/R), S-VIDEO IN) mounted on front panel
- DV: DV IN mounted on front panel

Note

Check that the Audio In settings DV Record Audio are as you want them. See page 28.

3 Load a recordable disc or tape.

4 Select the recording mode as necessary by pressing REC MODE repeatedly.

DVD: SP (Standard Quality), LP (Low Quality), XP(High Quality), EP (Extended Quality)

VCR: SP (Standard Play), LP (Long Play)

5 Press REC (●) once.

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

- Recording continues until you press STOP (■) or the disc or tape is full.
- To record for a fixed length of time, see Instant Timer Recording on page 43.

6 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 10 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 28).

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 Recorder 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.

1 Make sure your digital camcorder is connected to the front panel DV IN jack. See page 19.

2 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 Record Audio in sub-menu of the Setup menu. See DV Record Audio on page 28 for more information.

3 Press INPUT repeatedly to select the DV input.

DV appears in the display window.

4 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.

5 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 (❚❚) or STOP (■). 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.

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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 Record Audio to Audio 1 or Audio 2 as required (see page 28).
- 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 Record 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 the information.
Camcorder is updating the 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.

Notes

- Depending on the connected camcorder, you may not be able to control it using the remote control supplied with this recorder.
- Before you set the mode of your Camcorder to camera mode, turn down the volume of connected Sound device. There can be a howling sound.

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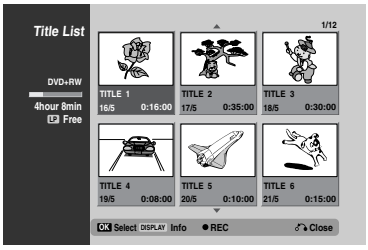
Using the Title List menu +RW

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.

1 Press LIST/DISC MENU 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 (↶).



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.

3 Use ▲ / ▼ to select an option then press ENTER to confirm.

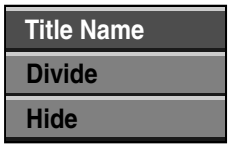
Play: Starts playback the selected title except the hidden chapters.

Full Play: Starts playback the selected title including the hidden chapters.

Chapter: Moves Chapter List menu of the title. (refer to right on this page)

Delete: Deletes the title. (page 51)

Protect: Protects accidental recording, editing or deleting of the title. (page 53)



Edit: Selects Edit options.
- **Title Name:** Edits the title name. (page 52)
- **Divide:** Divides one title into two titles. (page 54)
- **Hide (Show):** Hides (or Shows) the all chapters within the title. (page 54)

Dubbing: Copys the title to a VHS tape.

4 Press RETURN (↶) repeatedly to exit Title List menu.

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

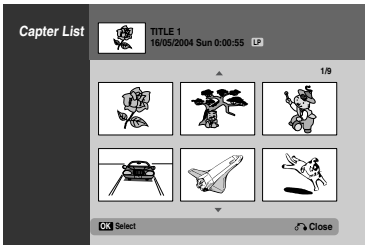
⚠Caution
If you press REC (●) when the Title List menu appears, the selected title is erased then overwrite recording starts. (See page 55 for more details.)

Using the Chapter List menu +RW

1 Press LIST/DISC MENU to display Title List menu.

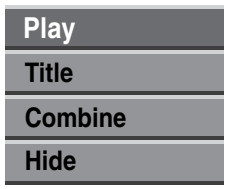
2 Use ▲ ▼ ◄ ► to choose the title you want to view Chapter List menu then press ENTER.
Title List options appears on the left side of the menu.

3 Use ▲ / ▼ to select 'Chapter' from Title List options then press ENTER.
Chapter List menu appears on the TV screen.



4 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 ▲ / ▼ to select an option then press ENTER to confirm.



Play: Starts playback of the selected chapter.

Title: Moves to Title List menu of the chapter. (refer to left on this page)

Combine: Combines two chapters into one. (page 52)

Hide (Show): Hides (or Shows) the selected chapter. (page 54)

6 Press RETURN (↶) repeatedly to exit Chapter List menu.

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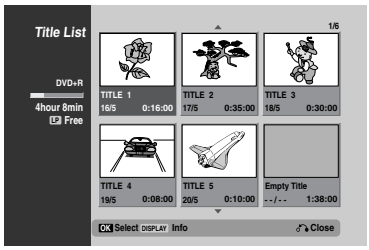
Title List and Chapter List Menu (Continued)

Using the Title List menu +R

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.

1 Press LIST/DISC MENU 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 (↩).



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.

3 Use ▲ / ▼ to select an option then press ENTER to confirm.

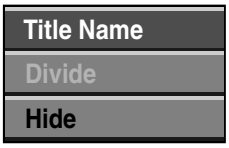
Play: Starts playback the selected title except the hidden chapters.

Full Play: Starts playback the selected title including the hidden chapters.

Chapter: Moves Chapter List menu of the title. (refer to right on this page)

Delete: Deletes the title. (page 51)

Protect: Protects accidental recording, editing or deleting of the title. (page 53)



Edit: Selects Edit options.
- **Title Name:** Edits the title name. (page 52)
- **Hide (Show):** Hides (or Shows) the all chapters within the title. (page 54)

Dubbing: Copys the title to a VHS tape.

4 Press RETURN (↩) repeatedly to exit Title List menu.

Tip

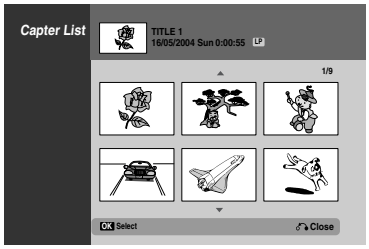
Press DISPLAY to display more detailed title information for selected title.

Using the Chapter List menu +R

1 Press LIST/DISC MENU to display Title List menu.

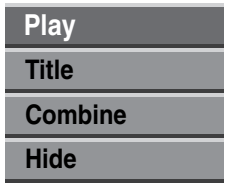
2 Use ▲ ▼ ◄ ► to choose the title you want to view Chapter List menu then press ENTER.
Title List options appears on the left side of the menu.

3 Use ▲ / ▼ to select 'Chapter' from Title List options then press ENTER.
Chapter List menu appears on the TV screen.



4 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 ▲ / ▼ to select an option then press ENTER to confirm.



Play: Starts playback of the selected chapter.

Title: Moves to Title List menu of the chapter. (refer to left on this page)

Combine: Combines two chapters into one. (page 52)

Hide (Show): Hides (or Shows) the selected chapter. (page 54)

6 Press RETURN (↩) repeatedly to exit Chapter List menu.

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Adding Chapter Markers +RW

+R Chapter

1 Play the title.

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.

Note
Chapter markers are inserted at regular intervals automatically. You can change this interval from the Initial Setup menu (see Auto Chapter on page 28).

Changing Title Thumbnails

+RW +R Thumb.

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.

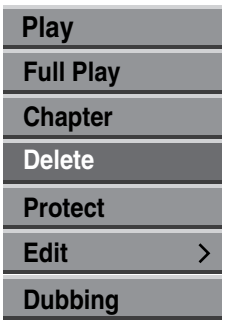
1 Play the title.

2 Press THUMBNAIL.

Deleting a Title +RW +R

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

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



3 Press ENTER to confirm.
The confirm message for deleting will appear.

4 Use ◄ / ► to select 'Yes' then press ENTER.
The selected title is deleted.
After pressing ENTER, the new, updated menu is displayed.

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

6 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.

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Title and Chapter Editing (Continued)

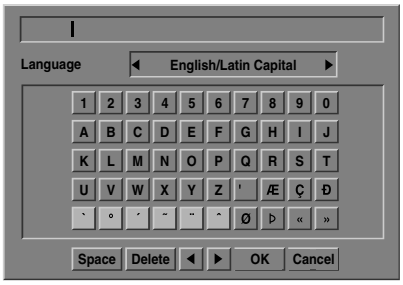
Naming a Title +RW +R

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

1 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 ▲/▼ to select 'Title Name' option then press ENTER.
Keyboard menu appears.

3 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 22 (Station Rename).



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

5 Press RETURN repeatedly to exit the menu.

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

Combining Two Chapters Into One

+RW +R

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.

2 Use ▲ / ▼ to select 'Combine'.
The combine indicator appears between the two chapters you want to combine.

3 Press ENTER to confirm.
After pressing ENTER, the new, updated menu is displayed.

4 Repeat steps 1 - 3 to continue to combine from the menu.

5 Press RETURN repeatedly to exit the menu.

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Protect a Title +RW +R

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

1 **Press LIST/DISC MENU to display Title List menu.**

2 **Use ▲▼◄► to choose a title you want to protect then press ENTER.**
Options appears on the left side of the screen.

3 **Select 'Protect' option on the options.**

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

4 **Press ENTER to confirm.**
The lock mark will appears on the title's thumbnail.

Tip

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

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Title and Chapter Editing (Continued)

Hide a Title/Chapter +RW +R

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

1 On 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.

2 Select 'Hide' option on the options.

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

3 Press ENTER to confirm.
The title's thumbnail will be dim.

Tip
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.

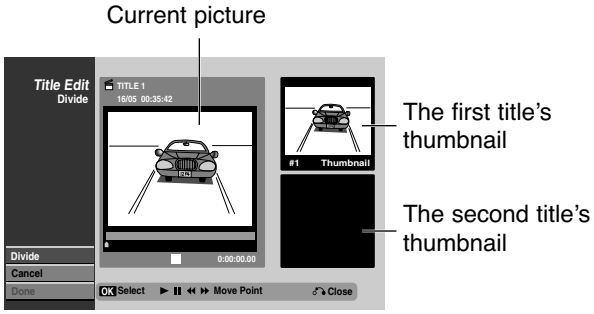
Divide One Title Into Two +RW

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

1 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.

2 Select 'Divide' from the Title List menu options.

3 Press ENTER when 'Divide' option is highlighted.
Title Edit-Divide menu appears and goes into STOP mode.



4 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 ▲ / ▼ 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.

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Clean-up Recording +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.

1 Switch on the recorder and load a recordable disc.

2 Press and hold REC (●) button for more than 3 seconds.
The message will appears on the TV screen.

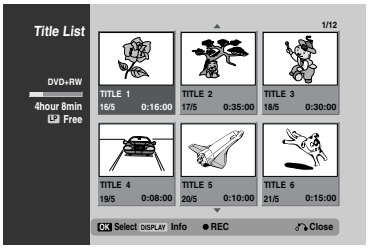
3 Use ◄ / ► to select "Yes" then press ENTER. Recording will start. (The REC icon appears on the TV screen.)

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.

1 Select input source you want to record (channel, AV1-3, DV).

2 Press LIST/DISC MENU to display the Title List menu.



3 Use ▲ ▼ ◄ ► to choose a title you want to overwrite.

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

5 Press STOP (■) to stop the overwrite recording.
The new title is created and updated menu is displayed.

Notes

- 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

+RW +R

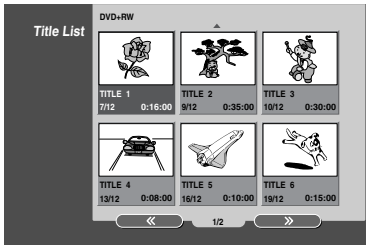
You can view the Title List menu displayed on the another DVD player that is capable of playing DVD+RW or DVD+R discs.

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

2 Press TITLE button.
Title List menu will appear as below.

Tip

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



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

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

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.
To finalize a disc, refer to "Disc Finalize" on page 29.

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.)

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Language Code List

Enter the appropriate code number for the initial settings “Disc Audio”, “Disc Subtitle” and/or “Disc Menu” (See page 24).

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

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Country Code List

Enter the appropriate code number for the initial setting “Country Code” (See page 27).

Code	Country
AD	Andorra
AE	United Arab Emirates
AF	Afghanistan
AG	Antigua and Barbuda
AI	Anguilla
AL	Albania
AM	Armenia
AN	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
CA	Canada
CC	Cocos (Keeling) Islands
CF	Central African Republic
CG	Congo
CH	Switzerland
CI	Ivory Coast
CK	Cook Islands
CL	Chile
CM	Cameroon
CN	China
CO	Colombia
CR	Costa Rica
CS	Former Czechoslovakia
CU	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
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	Hong Kong
HM	Heard and McDonald Islands
HN	Honduras
HR	Croatia
HT	Haiti
HU	Hungary
ID	Indonesia
IE	Ireland
IL	Israel
IN	India
IO	British Indian Ocean Territory
IQ	Iraq
IR	Iran
IS	Iceland
IT	Italy
JM	Jamaica
JO	Jordan
JP	Japan
KE	Kenya
KG	Kyrgyzstan
KH	Cambodia6
KI	Kiribati
KM	Comoros
KN	Saint Kitts & Nevis Anguilla
KP	North Korea
KR	South Korea
KW	Kuwait
KY	Cayman Islands
KZ	Kazakhstan
LA	Laos
LB	Lebanon
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	Panama
PE	Peru
PF	Polynesia (French)
PG	Papua New Guinea
PH	Philippines
PK	Pakistan
PL	Poland
PM	Saint Pierre and Miquelon
PN	Pitcairn Island
PR	Puerto Rico
PT	Portugal
PW	Palau
PY	Paraguay
QA	Qatar
RE	Reunion (French)
RO	Romania
RU	Russian Federation
RW	Rwanda
SA	Saudi Arabia
SB	Solomon Islands
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
TG	Togo
TH	Thailand
TJ	Tadjikistan
TK	Tokelau
TM	Turkmenistan
TN	Tunisia
TO	Tonga
TP	East Timor
TR	Turkey
TT	Trinidad and Tobago
TV	Tuvalu
TW	Taiwan
TZ	Tanzania
UA	Ukraine
UG	Uganda
UK	United Kingdom
UM	USA Minor Outlying Islands
US	United States
UY	Uruguay
UZ	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
ZM	Zambia
ZR	Zaire
ZW	Zimbabwe

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Troubleshooting

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

Symptom	Cause	Solution
No power.	• The power cord is disconnected.	• Plug the power cord into the wall outlet securely.
No picture.	• The TV is not set to receive 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 Recorder signal output.	• Select the correct input mode on the audio receiver so you can listen to the sound from the 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 Recorder does not start playback.	• No disc is inserted.	• Insert a disc.
	• 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 Movie Rating level is set.	• Cancel the Rating function or change the rating level.
The picture from the external input is distorted	• 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 ▲ / ▼.	• Those channels are not stored in the recorder.	• Restore channels. See “Program Edit” on pages 21-22.
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 Recorder is not shown on TV screen.	• Recorder INPUT SELECT is incorrect.	• Use AV to select input channel (AV1, AV2, AV3, DV, etc.)

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Symptom	Cause	Solution
Can't play a disc recorded using this recorder on another player.	• Some players will not play even a finalized disc recorded in Video mode.	• No solution.
	• 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.
Timer recording is not possible.	• Clock in Recorder is not set to correct time.	• Set clock to correct time. See "Auto Clock Set" or "Manual Clock Set" on page 23.
	• Timer has been programmed incorrectly.	• Reprogram Timer. See "Timer Recording" on page 45-46.
	• Timer record indicator light does not appear after programming timer.	• Reprogram Timer.
	• The set is not in standby mode.	• Put the set to standby mode after Timer recording had been programmed.
Stereo Audio Record and/or Playback is not present.	• TV is not Stereo-compatible.	• No solution.
	• Broadcast program is not in stereo format.	• No solution.
	• 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 Recorder.
	• Recorder Audio/Video Out is not selected for viewing at the TV.	• Select AUX or A/V source as TV input.
	• Recorder's TV audio channel is set to mono.	• Set TV audio channel mode to Stereo. See "Changing TV audio channel" on page 31.
The remote control does not work properly.	• The remote control is not pointed at the remote sensor of the Recorder.	• Point the remote control at the remote sensor of the Recorder.
	• The remote control is too far from the Recorder.	• Operate the remote control within 7 m.
	• There is an obstacle in the path of the remote control and the 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 Recorder is moved from a cold place to a warm place. • Under extremely humid conditions.	• Keep the Recorder plugged into an AC power outlet with POWER On. This will help prevent condensation. • When condensation has occurred, wait a few hours for the Recorder to dry before using it.

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Specifications

General

Power requirements	AC 220-230V, 50 Hz
Power consumption	35W
Dimensions (approx.)	430 X 78.5 X 354 mm (w x h x d)
Mass (approx.)	5.7 kg
Operating temperature	5˚C to 35˚C
Operating humidity	5 % to 90 %
Television system	PAL/SECAM colour system
Recording format	PAL

System

Laser	Semiconductor laser, wavelength 650 nm
Video head system	Double azimuth 4 heads, helical scanning
Signal system	PAL

Recording

Recording format	DVD+RW/+R Video format
Recordable discs	DVD+ReWritable, DVD+Recordable
Recordable time	Approx. 1 hour (XP mode), 2 hours (SP mode), 4 hours (LP mode), 6 hours (EP mode)
Video recording format	
Sampling frequency	27MHz
Compression format	MPEG 2
Audio recording format	
Sampling frequency	48kHz
Compression format	Dolby Digital

Playback

Frequency response	DVD (PCM 48 kHz): 8 Hz to 22 kHz, CD: 8 Hz to 20 kHz DVD (PCM 96 kHz): 8 Hz to 44 kHz
Signal-to-noise ratio	More than 100 dB (AUDIO OUT connector)
Harmonic distortion	Less than 0.008% (AUDIO OUT connector)
Dynamic range	More than 95 dB (AUDIO OUT connector)

Inputs

AERIAL IN	Aerial input, 75 ohms
VIDEO IN	1.0 Vp-p 75 ohms, sync negative, RCA jack x 1 / SCART x 2
AUDIO IN	0 dBm more than 47 kohms, RCA jack (L, R) x 1 / SCART x 2
DV IN	4 pin (i.LINK/IEEE 1394 standard)
S-VIDEO IN	(Y) 1.0 V (p-p), 75 Ω, negative sync, Mini DIN 4-pin x 1 (C) 0.3 V (p-p) 75 Ω

Outputs

S-VIDEO OUT	(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 (Pb)/(Pr) 0.7 V (p-p), 75 Ω, RCA jack x 2
Audio output (digital audio)	0.5 V (p-p), 75 Ω, RCA jack x 1
Audio output (analog audio)	2.0 Vrms (1 KHz, 0 dB), 600 Ω, RCA jack (L, R) x 1 / SCART

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