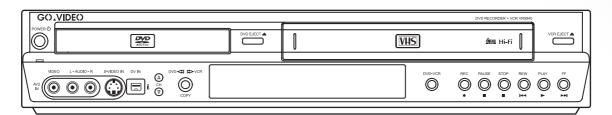


DVD Recorder+VCR

GO_VIDEO°



VR5940 User's Guide



























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.



The 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 APPARATUS TO RAIN OR MOISTURE.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR ÉVITER LES CHOC ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

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

NOTE TO CABLE/TV INSTALLER: This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

CAUTION:

This DVD Recorder+VCR employs a Laser System.

To ensure proper use of this product, please read this owner's manual carefully and retain for future reference.

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

Should the DVD Recorder+VCR require maintenance, contact an authorized service center.

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.

FCC WARNING: This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

REGULATORY INFORMATION: FCC Part 15

This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the product is operated in a residential installation. This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the product and receiver.
- Connect the product into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC COMPLIANCE: The responsible party for this product's compliance is: GoVideo, 7835 East McClain Drive, Scottsdale, AZ 85260, USA.

SERIAL NUMBER: The serial number is found on the back of the DVD Recorder+VCR. This number is for this unit only. You should record requested information here and retain this guide as a permanent record of your purchase.

Model No.	
Serial No.	

IMPORTANT SAFETY INSTRUCTIONS

CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS IN THIS OWNER'S MANUAL AND THOSE MARKED ON THE PRODUCT. RETAIN THIS MANUAL FOR FUTURE REFERENCE.

This product has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this product will protect you if you observe the following procedures for installation, use, and servicing.

This product does not contain any parts that can be repaired by the user.

DO NOT REMOVE THE CABINET COVER, OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.

- Read these instructions. All these safety and operating instructions should be read before the product is operated.
- Keep these instructions. The safety, operating and use instructions should be retained for future reference.
- **3. Heed all warnings. -** All warnings on the product and in the operating instructions should be adhered to.
- Follow all instructions. All operating and use instructions should be followed.
- 5. Do not use this product near water. For example: near a bath tub, wash bowl, kitchen sink, laundry tub, in a wet basement; or near a swimming pool; and other areas located near water.
- Clean only with dry cloth. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatuses (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the product.
- Only use attachments/accessories specified by the manufacturer.



- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with apparatus. When a cart is used, use caution when moving the cart/product combination to avoid injury from tip-over.
- Unplug this product during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the product has been damaged in any way, such as: Power-supply cord or plug is damaged; liquid has been spilled or objects have fallen into the product; the product has been exposed to rain or moisture, does not operate normally, or has been dropped.

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Overview

Recordable Discs

This DVD Recorder+VCR is a dual-format unit, which means you can record on DVD-R, DVD-RW, DVD+R, or DVD+RW recordable discs. Look for discs with the following logos:











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

Playable Discs

VIDEO ^M	DVD (8 cm/12 cm disc)
COMPACT DIGITAL VIDEO	Video CD (VCD) (8 cm / 12 cm disc)
COMPACT COMPACT DIGITAL AUDIO	Audio CD (8 cm/12 cm disc)

In addition, the DVD Recorder+VCR can play DVD-R/DVD-RW discs; DVD+R/DVD+RW discs; SVCD discs; CD-R/CD-RW discs that contain audio, MP3/WMA, or JPEG files; and Kodak Picture CDs.

√ otes

- Depending on the conditions of the recording equipment or the recordable disc (including CD-R/RW, DVD-R/-RW, and DVD+R/+RW), some discs cannot be played on the DVD Recorder+VCR.
- 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+VCR and DVDs

This DVD Recorder+VCR is designed and manufactured for playback of Region 1 encoded DVD software. The region code on the labels of some DVD discs indicates which type of DVD Recorder+VCR can play those discs. The DVD Recorder+VCR can play only DVD discs labeled 1 or ALL. If you try to play any other discs, the message "Incorrect region code. Can't playback" 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 DVD and Video CD playback operations may be intentionally set by the software manufacturer. As this DVD Recorder+VCR plays DVDs and Video CDs according to disc content designed by the software manufacturer, some DVD and Video CDs playback features may not be available or other functions may be added. Refer also to the instructions supplied with your DVDs and Video CDs. Some DVDs made for business purposes may not be played on this unit.

Disc Related Terms

Title (DVD only)

The main film content or accompanying feature content or music album. Each title is assigned a title reference number enabling you to locate it easily.

Chapter (DVD only)

Sections of a picture or a musical piece that are smaller than titles. A title is composed of one or several chapters. Each chapter is assigned a number to enable you to easily 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 number, enabling you to easily locate the track you want.

Scene

On a video CD with PBC (Playback Control), movies and pictures are divided into "scenes". Each scene is displayed on a menu and assigned a number, enabling you to quickly 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) allows you to interact with the contents of a Video CD using menus, search functions, and other special operations. High resolution pictures can be displayed if they are included on the disc.

Video CDs not equipped with PBC (Version 1.1)

Video CDs without PBC are similar to audio CDs, except they allow playback of video as well as sound.

Overview (Continued)

About Recordable Discs

How are +/-R and +/-RW discs different?

+/-R is a record-once medium, while +/-RW is a rerecordable/erasable medium. You can re-record/ erase an RW disc approximately 1,000 times.

Can I play my discs in a regular DVD player?

Discs recorded in "Video mode" are playable in most standard DVD players, but they must be finalized first. This process fixes the contents of your discs so they are readable on other DVD players as standard DVD-Video discs. DVD-RW discs recorded in "VR mode" (Video Recording mode) are only readable on players with the "RW Compatible" logo.



This logo indicates that a product is capable of playing DVD-RW discs recorded in "VR mode".

What are "Recording Modes"?

Two recording modes are available on your DVD Recorder+VCR: "Video mode" and "VR mode":

About "VR mode"

- · Compatible with DVD-RW discs only
- · Allows extensive editing of DVD-RW recordings
- · Discs are not playable on regular DVD players
- 4 different picture quality/recording time settings are available: XP (1 hr/disc), SP (2 hrs/disc), LP (4 hrs/disc), and EP (6 hrs/disc)

About "Video mode"

- Compatible with all discs (DVD-R/RW, DVD+R/RW)
- · Provides limited editing features
- Playable on most regular DVD players (after finalizing)
- 4 different picture quality/recording time settings are available: XP (1 hr/disc), SP (2 hrs/disc), LP (4 hrs/disc), and EP (6 hrs/disc)

N ote

Discs formatted in "Video mode" are recorded in the DVD-Video format, which was approved by the DVD Forum in 2000. As a result, you may experience problems playing your discs in some older players. Symptoms include video artifacts, audio and/or video dropouts and playback suddenly stopping. Our company cannot take responsibility for problems playing discs recorded on this DVD Recorder+VCR in other players.

Is Editing a DVD like Editing a Videotape?

No. When you edit a videotape you need one video deck to play the original tape and another to record the edits. With DVD, you edit by making a "Playlist" of what to play and when to play it. During playback, the DVD Recorder+VCR plays the disc according to your Playlist.

"Original" Content vs "Playlist" Content

Throughout this manual, you will often see the words "Original" and "Playlist" to distinguish between the actual content on your DVD-RW and the edited version.

- Original: Refers to what is actually recorded on the disc.
- Playlist: Refers to the edited version of the disc —
 i.e., how the Original content is to be played.

About DVD Recording

N otes

- The DVD Recorder+VCR cannot make recordings on CD-R or CD-RW discs.
- Our company takes no responsibility for recording failure due to power outages, defective discs, or damage to the DVD Recorder+VCR.
- 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

The DVD Recorder+VCR can play the following DVD discs:

- 1. Pre-recorded DVD-Video discs
- 2. DVD-R/DVD-RW discs
- 3. DVD+R/DVD+RW discs

DVD-R, DVD+R, and DVD+RW discs are always formatted in "Video mode"—the same format as prerecorded DVD-Video discs. This means that once the disc is finalized, you can play it in most standard DVD players.

DVD-RW discs can be formatted in either "Video mode" or "VR mode" (Video Recording mode). Keep in mind that changing between these modes requires you to reinitialize the disc, which will erase its contents.

What is 'DoMiNoFX™'?

DoMiNoFXTM is a patented video processing technology that digitally enhances and refines the picture quality during recording. This results in visibly superior recordings, and a dramatic improvement when recording from noisy source material, such as VHS tapes or weak TV signals.

DoMiNo.

Overview (Continued)

Notes for Recording

- The recording times shown are not exact because the DVD Recorder+VCR uses variable bit-rate video compression. This means that the exact recording time will depend on the material being recorded.
- When recording a TV broadcast, if the reception is poor or the picture contains interference, the recording times may be shorter.
- If you record still pictures or audio only, the recording time may be longer.
- The displayed times for recording and time remaining may not always add up to exactly the length of the disc.
- The recording time available may decrease if you heavily edit a disc.
- If using a DVD-RW disc, make sure you change the recording format (Video mode or VR mode) before you record anything on the disc. See page 24 ("Disc Initialize") for how to do this.
- When using a DVD-R or DVD+R disc, you can keep recording until the disc is full, or until you finalize the disc. Before you start a recording session, check the amount of recording time left on the disc.
- When using a DVD+RW disc or a DVD-RW disc in Video mode, recording time available will only increase if you erase the last title recorded on the disc.
- The Erase Title option in the Original (Title) menu only hides the title, it does not actually erase the title from the disc and increase the recording time available (except for the last recorded title on a DVD+RW disc or a DVD-RW disc in Video mode).

Recording TV Audio Channels

The DVD Recorder+VCR can record one or two channel audio. For TV broadcasts, this usually means mono or stereo, but some programs are broadcast with a main and a SAP (Secondary Audio Program) audio channel.

If you're recording in Video mode (or in VR mode), you can record either the main audio or the SAP audio.

Restrictions on Video Recording

- You cannot record copy-protected video using this DVD Recorder+VCR. Copy-protected video includes DVD-Video discs and some satellite broadcasts. If copy-protected material is encountered during a recording, recording will pause or stop automatically and an error message will be displayed on-screen.
- Video that is 'copy-once only' can only be recorded using a DVD-RW disc in VR mode with CPRM (see below).

What is 'CPRM'?

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

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

Copyright Notice

- Audio and video recordings you make using the DVD Recorder+VCR are for your personal use only. You may not sell, lend or rent them to other people.
- 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.

Disc Type	Disc Format	Recording Mode	Editing Features
DVD-Video	Video Format	Playback only	N/A
DVD-RW	Video Recording Format (default)	VR mode	Create & Modify Playlists; Delete Titles/Chapters; Delete Parts of Titles; Combine Chapters; Rename Titles; Protect Titles.
	Video format	Video mode	Rename Titles; Delete Titles.
DVD-R	Video format	Video mode	Rename Titles; Delete Titles.
DVD+RW	+RW Video format	DVD+RW mode	Rename Titles; Delete Titles; Hide/Show Chapters; Divide Titles; Combine Chapters; Protect Titles
DVD+R	+R Video format	DVD+R mode	Rename Titles; Delete Titles; Hide/Show Chapters; Combine Chapters; Protect Titles

Overview (Continued)

Precautions

Handling the Unit

When shipping the unit

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

When setting up the unit

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

To keep the surface clean

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

Cleaning the Unit

To clean the cabinet

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

To obtain a clear picture

The DVD Recorder+VCR 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.

Moisture Condensation

Never operate the DVD Recorder+VCR immediately after moving it from a cold location to a warm location. Leave it for two or three hours without operating it. If you use the unit in such a situation, it may damage discs/tapes and internal parts.

Remote Control Operation Range

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

- **Distance:** About 23 ft (7 m) from the front of the remote sensor.
- Angle: About 30° in each direction of the front of the remote sensor.

Remote Control Battery Installation



Detach the battery cover on the rear of the remote control, and insert two size AAA batteries with • and • aligned correctly.

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

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.

About Symbols

About the ○ Symbol

" \(\infty\) " 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 or at that time.

Symbols Used in this Manual

Many functions provided on this recorder are dependent on the Recording mode. One or more of the symbols (Video , VR , +R/RW) appear by each function explained in this manual so that you can see at a glance whether it's applicable to the disc loaded.

Video DVD-R/RW with Video recording mode

VR DVD-RW with VR recording mode

+R/RW DVD+R/RW disc

DVD DVD-Video disc

CD Audio CDs

MP3 MP3 CDs

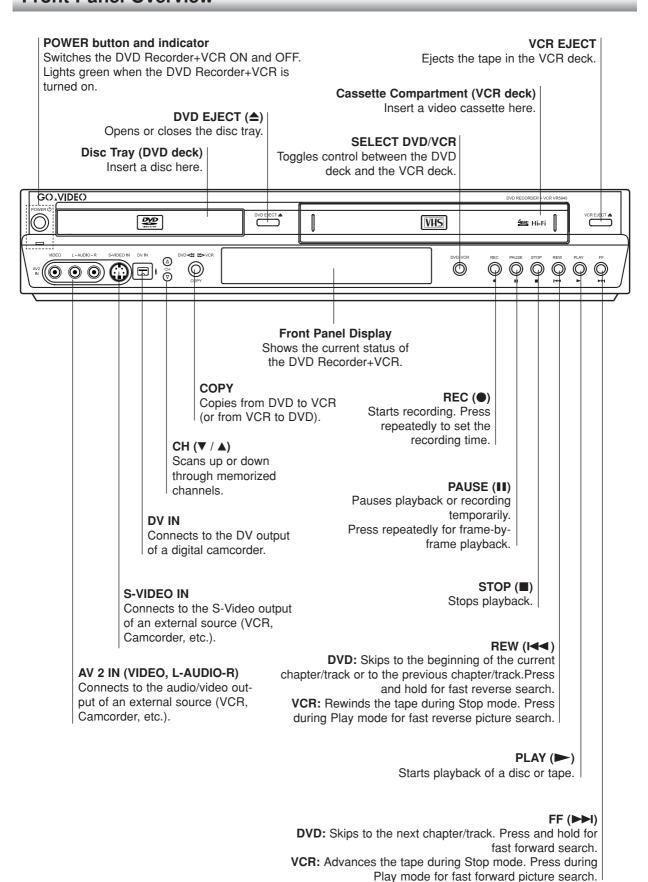
WMA WMA CDs

JPEG JPEG CDs

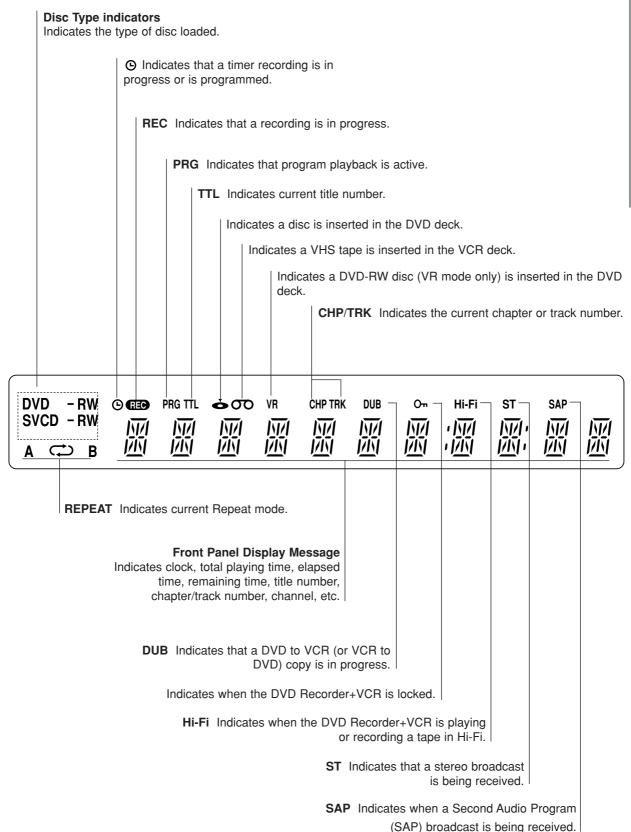
VHS VHS Tape

A finalized DVD disc is a DVD-Video disc.

Front Panel Overview



Front Panel Display Overview



Remote Control Overview

POWER

Turns DVD Recorder+VCR on and off.

TV/VCR

Switches between the DVD Recorder+VCR tuner and your TV tuner.

DVD

Selects DVD mode.

VCR

Selects VCR mode.

INPU.

Switches the DVD Recorder+VCR input to Tuner, AV1, AV2, or DV IN.

0-9 buttons

Selects numbered options in menus. Selects TV channels.

TV Control Buttons

TV POWER: Turns TV on and off.
TV INPUT: Selects TV input source.
CH ▲/▼: Selects TV channels.
VOL +/-: Adjusts TV volume.
MUTE: Turns TV sound on or off.

REC MODE

Selects Recording mode:
- DVD: XP (1 hr), SP (2 hrs),
LP (4 hrs) or EP (6 hrs).
- VCR: SP or SLP.

TIMER RECORD

Displays Timer Recording menu.

REC (●)

Starts recording. Press repeatedly to set the recording time.

REW/FF (◀◀ / ▶▶)

DVD: Searches backward/forward. VCR: Rewinds/advances during Stop mode. Press during Play mode for fast reverse/forward picture search.

PREV/NEXT (I◀◀ / ▶►I)

Skips to next chapter/track. Returns to beginning of current chapter/track or skips to previous chapter/track.

AUDIO

Selects an audio language (DVD).

SUBTITLE

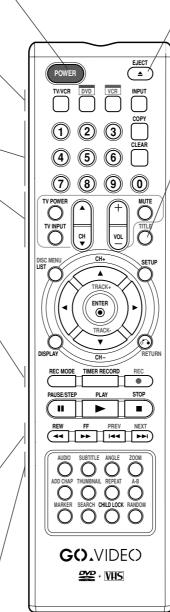
Selects a subtitle language.

ANGLE

Selects a DVD camera angle, if available.

ZOOM

Enlarges DVD video image.



EJECT

- Opens and closes disc tray.
- Ejects tape in VCR deck.

COPY

Copies DVD to VCR (or VCR to DVD).

CLEAR

Removes bookmarks from Marker Search menu.

TITLE

Displays disc's Title menu, if available.

DISC MENU/LIST

Accesses menus on DVD discs. Switches between Original and Playlist editing in VR mode.

SETUP

Displays or exits Setup menu.

DISPLAY

Displays or exits On-Screen Display.

RETURN (3)

Exits or returns to previous screen in Setup menu.

▼ ▲ ▼ (left/right/up/down)

Selects menu options.

CH/TRACK(△/**▼**): Selects channels. Manually adjusts tracking.

ENTER

Confirms menu selections.

PAUSE/STEP (II)

Pauses playback or recording temporarily. Press repeatedly for frame-by-frame playback.

PLAY (►)

Starts playback.

STOP (■)

Stops playback or recording.

ADD CHAP

Inserts chapter marker when playing/ recording DVD+R/RW discs or DVD-RW discs in VR mode.

THUMBNAIL

Selects a thumbnail picture for the current title for use in the Title List or Chapter List menu.

REPEAT

Repeats chapter, track, title, or all.

A-B

Repeats sequence between two points (A and B).

MARKER

Marks any point during playback.

SEARCH

Displays Marker Search menu.

CHILD LOCK

Locks/unlocks front panel buttons.

RANDOM

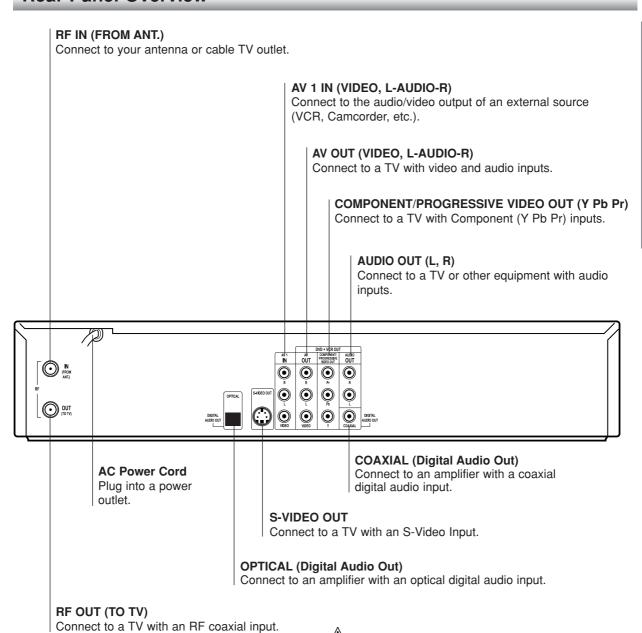
Plays tracks in random order.

M CHILD LOCK

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



Rear Panel Overview



ACaution

Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the DVD Recorder+VCR.

Connections

T ips

- There are a variety of ways to connect the DVD Recorder+VCR to your TV and other equipment.
 Use only one of the connections described below.
 Whichever TV connection you use will work with all input sources.
- Please refer to the manuals for your TV, VCR, stereo system or other devices as necessary to make the best connections.
- For better sound reproduction, connect the DVD Recorder+VCR's AUDIO OUT jacks to the audio in jacks of your amplifier, receiver, stereo or audio/video equipment. See "Connecting an Amplifier/Receiver" on page 16.

ACaution

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

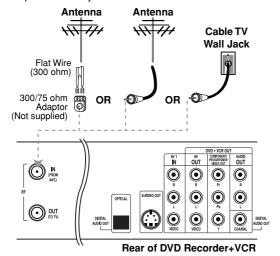
Connecting Antenna/Cable

Disconnect the antenna/cable from the rear of your TV.

Identify the type of cable from your antenna. If it is a round cable as illustrated, it is a 75 ohm coaxial antenna cable. This cable will connect directly to the jack marked RF IN (FROM ANT.) on the DVD Recorder+VCR.

T_{ip}

If your antenna lead wire is a flat type antenna cable, connect it to a 300-ohm to 75-ohm antenna adapter (not supplied) and slip the adapter onto the RF IN (FROM ANT.) jack. The Adapter does not screw on to the unit, it just slips over the jack.



Cable Service Without Cable Box

If your cable wire is connected to your TV without a converter or descrambler box, unscrew the wire from your TV and attach it to the RF IN (FROM ANT.) jack on the DVD Recorder+VCR. Use the supplied coaxial cable to connect between the DVD Recorder+VCR's OUT (TO TV) jack and the 75 ohm antenna input jack on your TV. With this connection, you can receive all midband, superband, and hyperband channels (all cable channels)

Cable Service With Cable Box

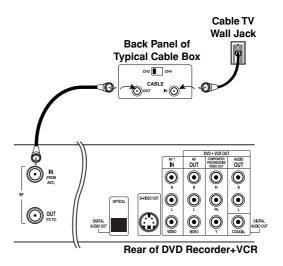
If a cable box is required in your cable system, follow the instructions shown below. This hookup permits both TV and DVD Recorder+VCR operation.

To view or record a CATV channel:

- 1 Tune the TV to the correct video input channel.
- 2 Set the DVD Recorder+VCR to the output channel of the cable box using the CH (▲ / ▼) or the 0-9 keys on your DVD Recorder+VCR (e.g., CH3).
- 3 Select the channel you wish to view on the cable box.

N ote

If you are using a cable box to tune channels, it is not necessary to run Auto Channel Set as indicated on page 18.



Connections (Continued)

Connecting a TV

Choose one of the following TV connections, depending on the capabilities of your equipment.

N ote

All video signals are available from all video outputs. That means that whichever TV connection you use, it will work with all input sources, including VHS out of the Component/Progressive Video Output.

RF Coaxial Connection

Connect the RF OUT (TO TV) jack on the DVD Recorder+VCR to the antenna in jack on your TV using the supplied 75-ohm coaxial cable (R). If you use this connection, tune your TV to the DVD Recorder+VCR's RF output channel (CH 3 or 4).

How to set the DVD Recorder+VCR's RF output channel

Turn off the DVD Recorder+VCR, then press and hold CH (▲/▼) on the front panel for about five seconds to change the RF output channel (CH 03 or CH 04). "RF-03" or "RF-04" appears on the front panel display.

Audio/Video Connection

- Connect the VIDEO OUT jack on the DVD Recorder+VCR to the video in jack on your TV using the supplied video cable (V).
- Connect the Left and Right AUDIO OUT jacks from the DVD Recorder+VCR to the left/right audio in jacks on your TV using the supplied audio cables (A).

S-Video Connection

- Connect the S-VIDEO OUT jack on the DVD Recorder+VCR to the S-Video in jack on your TV using an S-Video cable (S).
- Connect the Left and Right AUDIO OUT jacks from the DVD Recorder+VCR to the left/right audio in jacks on your TV using the supplied audio cables (A).

Component Video Connection

- Connect the COMPONENT/PROGRESSIVE VIDEO OUT jacks on the DVD Recorder+VCR to the corresponding in jacks on your TV using a Y Pb Pr cable (C).
- Connect the Left and Right AUDIO OUT jacks from the DVD Recorder+VCR to the left/right audio in jacks on your TV using the supplied audio cables (A).

Progressive Scan Connection

- If your television is a high-definition or "digital ready" television, you may take advantage of the DVD Recorder+VCR'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.
- Connect the COMPONENT/PROGRESSIVE VIDEO OUT jacks on the DVD Recorder+VCR to the corresponding in jacks on your TV using an optional Y Pb Pr cable (C).
- Connect the Left and Right AUDIO OUT jacks from the DVD Recorder+VCR to the left/right audio in jacks on your TV using the supplied audio cables (A).

N otes

- Be sure to set the Progressive Scan option to "ON" in the General settings menu; see page 20.
- Progressive Scan does not work with the RF, Audio/Video or S-Video connections.

Connections (Continued)

Connecting an Amplifier/Receiver

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

Connect the Left and Right AUDIO OUT jacks on the DVD Recorder+VCR to the left and right audio in jacks on your amplifier, receiver, or stereo system, using the supplied audio cables (A).

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

- Connect one of the DVD Recorder+VCR's DIGITAL AUDIO OUT jacks (OPTICAL O or COAXIAL X) to the corresponding in jack on your amplifier. Use an optional digital (optical O or coaxial X) audio cable.
- You will need to activate the DVD Recorder+VCR's digital output; see "AUDIO Settings" on page 21.

1 Digital Multi-Channel Sound

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

A Caution:

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

N otes

- If the audio format of the digital output does not match the capabilities of your receiver, the receiver will produce a strong, distorted sound or no sound at all.
- 5.1 channel digital surround sound via the 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 on the onscreen display, press AUDIO.

N ote

The DVD Recorder+VCR does not perform internal (2-channel) decoding of DTS sound tracks. To enjoy DTS multi-channel surround, you must connect the DVD Recorder+VCR to a DTS compatible receiver via one of the DVD Recorder+VCR's digital audio outputs.

Amplifier (Receiver)

Connections (Continued)

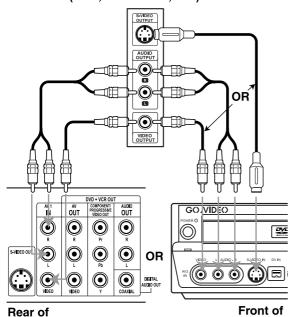
Connecting Optional Equipment

Connect the AV 1 IN or AV 2 IN jacks on the DVD Recorder+VCR to the audio/video out jacks on your external component, using optional audio/video cables.

N ote

If you use the S-VIDEO jack on the front panel, there will be no signal output from the front panel VIDEO jack.

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



DVD Recorder+VCR

DVD Recorder+VCR

Connecting a Digital Camcorder

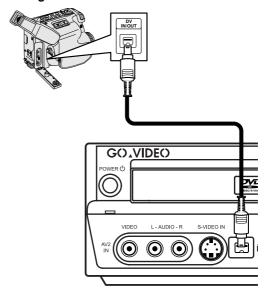
Using the front panel DV IN jack, it is possible to connect a DV digital camcorder, video deck or DVD-R/RW recorder and digitally transfer DV tapes or DVD-R/RW discs to DVD-R/RW.

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

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 DVD Recorder+VCR

Initial Setup

Setup Menu Overview

The DVD Recorder+VCR Setup menu includes system settings in six categories GENERAL, LANGUAGE, AUDIO, LOCK, RECORD and DISC. Press SETUP on the remote control to view the first and second levels of the Setup menu, and press ▶ to display the third level . You will see the "▶" symbol on the right side of the menu label whenever additional levels are available.

Setup Menu Navigation

Press SETUP.

The Setup menu appears.

Use ▲ / ▼ to select the desired option.

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

Use ▲ / ▼ to select the second desired option.

Fress ► to move to the third level.

Use ▲ / ▼ to select the desired setting then press ENTER to confirm your selection.

Some items require additional steps. Press ◀ or RETURN (إِنَّ) at any time to return to the previous menu.

Press SETUP to exit the Setup menu.

GENERAL Settings

Tuning Band

Press SETUP.

The Setup menu appears.

Use ▲ / ▼ to select the GENERAL option.

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

Use ▲ / ▼ to select the Tuning Band option.

Fress ► to move to the third level.

Use ▲ / ▼ to select the tuning band option (TV or CATV) then press ENTER.

TV: If you are using a standard antenna to receive channels.

CATV: If you are using basic cable to receive channels.



Auto Channel Set

The DVD Recorder+VCR is equipped with a frequency synthesized tuner capable of receiving up to 181 channels. These include VHF channels 2-13, UHF channels 14-69 and CATV channels 1-125.

Preparation:

 Connect the DVD Recorder+VCR to the desired type of antenna or cable TV system, as shown in "Connecting Antenna/Cable" on page 14

Press SETUP.

The Setup menu appears.

Use ▲ / ▼ to select the GENERAL option.

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

■ Use ▲ / ▼ to select the Auto Channel Set option.

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

Press ENTER to begin the channel search. The tuner will automatically search for all

available channels in your area and place them in the tuner's memory.



√ ote

After the Auto Channel Set is complete, follow the instructions at left to make sure the Tuning Band is set correctly (TV or CATV).

Channel Add/Delete

This feature allows you to manually add or delete channels from your channel list.

Follow steps 1-3 as shown under Auto Channel Set.

Use ▲ / ▼ to select the CH. Add/Del option.

Press ► to move to the third level.

The Edit icon is highlighted.

Press ENTER.
The Channel Edit menu appears.



5 Use **△** / **▼** or 0-9 to select a channel to add or delete then press **►**.

The Add or Delete icon is highlighted.

Press ENTER to confirm your setting.

Repeat steps 5-6 to add or delete additional channels.

Press SETUP or RETURN to exit the menu.

Clock (Auto)

The DVD Recorder+VCR gives you two ways to set the time and date: Auto or Manual. Auto is the default setting and enables the DVD Recorder+VCR to set the clock whenever the DVD Recorder+VCR is off or in Standby mode.



Press SETUP.

The Setup menu appears.

Use ▲ / ▼ to select the GENERAL option.

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

Use ▲ / ▼ to select the Clock Set option.

Fress ► to move to the third level.

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

The Auto option is set at the factory. In the Auto option, the DVD Recorder+VCR looks for a channel carrying XDS (Extended Data Services) information. XDS updates the clock using the Coordinated Universal Time.

Use ▲ / ▼ to choose your Time Zone.

You can set your local Time Zone manually. When Time Zone is set to Auto, the DVD Recorder+VCR will use XDS information to determine the proper setting.

Use ► to choose the Daylight Saving option.
Use ▲ / ▼ to choose Auto, On, or Off.

You can turn Daylight Savings On or Off manually. When set to Auto, the DVD Recorder+VCR will use XDS information to determine the proper setting.

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

N ote

If your local TV station does not send date and time information, or sends incorrect information, you can set the clock manually.

Clock (Manual)

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

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



Enter the necessary information for date and

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

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

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

TV Aspect Ratio

4:3 Letterbox: Select when a standard 4:3 TV is connected. Displays theatrical images with masking bars above and below the picture.

4:3 Fullscreen: Select when a standard 4:3 TV is connected. Displays pictures cropped to fill your TV screen. Both sides of the picture are cut off.

16:9 Widescreen: Select when a 16:9 widescreen TV is connected.



Progressive Scan

Progressive Scan Video provides the highest picture quality with reduced flickering.

- If you are using the COMPONENT/PROGRESSIVE VIDEO OUT jacks, but are connecting the DVD Recorder+VCR to a standard (analog) television, set Progressive Scan to OFF.
- If you are using the COMPONENT/PROGRESSIVE VIDEO OUT jacks for connection to a TV or monitor that is compatible with a Progressive Scan signal, set Progressive Scan to ON.



ACaution

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 DVD Recorder+VCR. First, remove the disc in the DVD Recorder+VCR. Next, 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 wish, you can reset the DVD Recorder+VCR to its original factory settings. Select "SET" then press FNTFR.

The Initialize menu will appear. Use the ◀ ▶ buttons to select "Yes" and press ENTER.

N ote

Some options cannot be reset, including Movie Rating, Password, and Country Code.



LANGUAGE Settings

Display Menu Language

Select a language for the DVD Recorder+VCR Setup menu and on-screen displays.



Disc Menu/Audio/Subtitle Language

Select your preferred language for Disc Menus, Audio soundtracks, and Subtitles.

Original: The disc's default language is selected.

Other: To select another language, select Other then press ENTER. Use the 0-9 and ENTER buttons to input the corresponding 4-digit number according to the "Language Code List" on page 59. If you a mistake before pressing ENTER, press ◀ to move the cursor back and correct it.



AUDIO Settings

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

Dolby Digital

PCM: Select when connected to a 2-channel digital stereo amplifier. The DVD Recorder+VCR's digital audio signal will be output in the PCM 2ch format when you play a DVD recorded with a Dolby Digital soundtrack.

Bitstream: Select when connected to a Dolby Digital decoder (or an amplifier or other equipment with a Dolby Digital decoder).



DTS

OFF: The DTS signal will not be output from the DIGITAL AUDIO OUT jacks.

Bitstream: Select when connected to a DTS decoder (or an amplifier or other equipment with a DTS decoder).



MPEG

PCM: Select when connected to a 2-channel digital stereo amplifier. The DVD Recorder+VCR's digital audio signal will be output in the PCM 2ch format when you play a DVD recorded with an MPEG1 or MPEG2 soundtrack.

Bitstream: Select when connected to an MPEG decoder (or an amplifier or other equipment with an MPEG decoder).



Sampling Frequency

- If your receiver or amplifier is NOT capable of handling 96 kHz signals, select 48 kHz. The DVD
 Recorder+VCR 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. The DVD Recorder+VCR will pass each type of signal through without any further processing.



DRC (Dynamic Range Control)

While watching DVD movies, you may wish to compress the dynamic range of the audio output (the difference between the loudest and quietest passages). This allows you to listen to a movie at a lower volume without losing clarity of sound. Set DRC to ON for this effect.



Surround

Select the appropriate Surround Sound option for your audio equipment:

Stereo: Select when connected to an analog amplifier, stereo receiver or stereo television.

3D: Select for a simulated 3D effect from two speakers.

Dolby Digital: Select when connected to a Dolby Digital decoder (or an amplifier or other equipment with a Dolby Digital decoder).

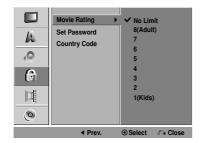
DTS: Select when connected to a DTS decoder (or an amplifier or other equipment with a DTS decoder).



LOCK Settings

Movie Rating

The Lock feature allows you to prevent DVDs from being played based on their ratings or to have certain discs played with alternative scenes.



Press SETUP.

The Setup menu appears.

9 Use ▲ / ▼ to select the LOCK option.

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

Use ▲ / ▼ to select the Movie Rating option.

Press ► to move to the third level.

When you have not entered a password yet.
Enter a 4-digit password using the 0-9 buttons.
Enter the 4-digit password again to confirm.
When you have already entered a password;
Enter your 4-digit password using the 0-9 buttons.

T ip

If you make a mistake before pressing ENTER, press ◀ to back up and then re-enter your password.

Select a rating from 1 to 8 using the ▲ / ▼ buttons. One (1) has the most playback restrictions. Eight (8) has the least playback restrictions.

Unlock: If you select No Limit, the Lock feature 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 DVD Recorder+VCR, all 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

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

Password

Changing the 4-digit code

Follow steps 1-3 as shown under Movie Rating.

Use ▲ / ▼ to select the Password option.

Press ► to move to the third level.

Follow step 6 as shown under Movie Rating.

While "Change" is selected, press ENTER.

If you select "Delete" then press ENTER, the password will be deleted.

Enter a 4-digit password using the 0-9 buttons.

7 Enter the 4-digit password again.

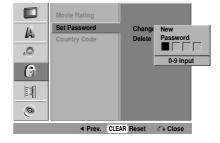
T ip

If you a mistake before pressing ENTER, press ◀ to back up and then re-enter your password.

If you forget your 4-digit code

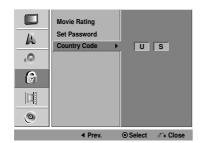
If you forget your password, follow the procedure below:

- 1 Press SETUP to display the Setup menu.
- 2 Use the 0-9 buttons to enter the 5-digit number "21019". The following message appears on the TV screen: "The memorized password will be deleted. Proceed?"
- 3 Select "Yes" then press ENTER. The 4-digit password is cleared. Enter a new code as shown above.



Country Code

Enter the 2-letter code for the country/area whose standards were used to rate your DVDs, referring to the "Country Code List" on page 60.



Press SETUP.

The Setup menu appears.

¶ Use ▲ / ▼ to select the LOCK option.

While the LOCK option is selected, press ▶ to move to the second level.

Use ▲ / ▼ to select the Country Code option.

Press ► to move to the third level.

When you have not entered a password yet.
Enter a 4-digit password using the 0-9 buttons.
Enter the 4-digit password again to confirm.
When you have already entered a password;
Enter your 4-digit password using the 0-9 buttons.

T ip

If you a mistake before pressing ENTER, press \blacktriangleleft to back up and then re-enter your password.

Select the first character using the ▲ / ▼ buttons.

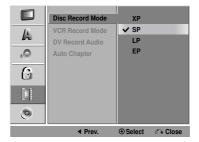
Shift the cursor using the ▶ button and select the second character using the ▲ / ▼ buttons.

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

RECORD Settings

Disc Record Mode

You can set the default DVD recording quality to: XP (1 hr/disc), SP (2 hrs/disc), LP (4 hrs/disc), or EP (6 hrs/disc)



Press SETUP.

The Setup menu appears.

9 Use ▲ / ▼ to select the RECORD option.

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

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

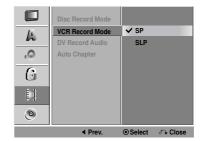
Press ▶ to move to the third level.

B Use **A** / **V** to select the desired Disc Record Mode (XP, SP, LP, or EP).

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

VCR Record Mode

You can set the default VCR recording quality to SP (Standard Play) or SLP (Super Long Play). SP is higher quality, but SLP provides 3 times the recording time; e.g., a 2 hour tape will record for 6 hours in SLP mode.



DV Record Audio

You only need to set DV Record Audio if you have a digital camcorder with 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.

- With the Audio 1 setting, the sound that was recorded while shooting is used.
- With the Audio 2 setting, the overdubbed sound is used.



Auto Chapter

During recording, chapter markers are added automatically at fixed intervals. You can set this interval to 5 minutes or 10 minutes. To turn off automatic chapter marking, select "OFF".



DISC Settings Disc Initialize

When you load a blank disc, the recorder will initialize the disc.

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

Record mode will always be Video mode.

DVD-RW: You will be prompted to initialize the disc in

Video mode (for maximum compatibility) or VR mode (for maximum editing ability).

DVD+R: The Initialize menu appears. Select "Yes" then

press ENTER.

DVD+RW: The recorder initializes the disc in DVD+RW

mode.

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



Press SETUP.

The Setup menu appears.

¶ Use ▲ / ▼ to select the DISC option.

While the DISC option is selected, press ▶ to move to the second level.

Use ▲ / ▼ to select the Disc Initialize option.

Press ► to move to the third level.

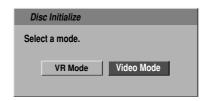
The Start icon is highlighted.

Press ENTER.

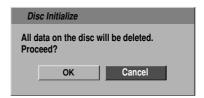
The Disc Initialize menu appears.

If the disc is a DVD-RW, use ◀ / ▶ to select the desired Disc Initialize Mode (VR Mode or Video Mode) then press ENTER.

If the disc is a DVD+RW, go to step 8.



Use ◀ / ► to select "OK", and press ENTER. It may take a few minutes to initialize the disc.





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

Disc Finalize

Finalizing a recordable disc 'locks' its recordings in place so the disc can be played on most standard DVD players or computers equipped with DVD-ROM drives. Finalizing a disc formatted in Video mode will automatically create a menu screen for navigating the disc. This menu screen is accessible by pressing DISC MENU or TITLE.

⚠ Caution

 Once you have finalized a DVD-R/+R disc, you cannot edit or record anything else on that disc. However, you can record and edit a DVD-RW disc by choosing Unfinalize.

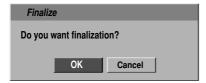


■ Follow steps 1-3 as shown under Disc Initialize.

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

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

Press ENTER.
The Finalize menu appears.



Select OK then press ENTER.

The DVD Recorder+VCR starts finalizing the disc.

Note

Finalization can take up to 3-4 minutes depending on the type of disc, how much is recorded on the disc, and the number of titles on the disc.

 T'_{ip}

If you load a DVD-RW that has already been finalized on a different DVD Recorder, you can 'Unfinalize' it by choosing Unfinalize from the Finalize menu. After doing this, you can edit and re-record onto the disc. You cannot unfinalize a DVD-R/+R disc.

Disc Protect

When recording on a DVD-RW in VR mode, set Disc Protect to ON to prevent accidental recording, editing or erasing of the loaded disc.

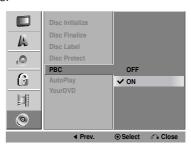
When recording on a DVD+RW, set Disc Protect to ON to prevent accidental overwriting, editing or erasing of the loaded disc. If you need to unlock the disc to make edits, select OFF.



PBC

PBC stands for Playback Control and refers to special menus and navigation features that are available on some Video CDs.

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



AutoPlay

When you load a DVD with AutoPlay turned on, the DVD Recorder+VCR will bypass the Disc menu and trailers and start playing the movie automatically. Set AutoPlay to ON or OFF.



YourDVD

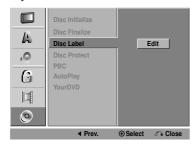
When you load a DVD with the YourDVD feature turned on, the DVD Recorder+VCR will automatically search the disc for your Audio, Subtitle and Surround preferences and choose them if available on the disc. Set YourDVD to ON or OFF.



Disc Label

Use the Disc Label feature to enter the name that appears when you load the disc and when you display disc information on-screen.

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



- Follow steps 1-3 as shown under Disc Initialize.
- Use ▲ / ▼ to select the Disc Label option.
- Press ► to move to the third level.
 The Edit icon is highlighted.
- Press ENTER.
 The Keyboard menu appears.



- Enter a name for the disc. Use ▲ ▼ ◀ ► to select a character, then press ENTER to confirm your selection.
 - English/Latin Capital: Selects a keyboard with uppercase characters.
 - English/Latin Lowercase: Selects a keyboard with lowercase characters.
 - Symbols: Selects a keyboard with all symbols.
 - OK: Confirms the name you have entered.
 - Cancel: Deletes all characters and exits the Keyboard menu.
 - **Space:** Inserts a space at the cursor position.
 - Delete: Deletes the character to the left of the cursor.
 - ◄ / ►: Moves the cursor left or right.
 - You can also use the remote control to enter Disc Names:
 - PREV/NEXT (I◄◄ / ▶►I): Moves the cursor left or right.
 - **PLAY (▶):** Inserts a space at the cursor position.
 - **PAUSE/STEP (III):** Deletes the character to the right of the cursor position.
 - **STOP** (**III**), **CLEAR**: Deletes the character to the left of the cursor position.
 - **0-9:** Enters the character corresponding to the selected column.
 - **DISC MENU/LIST, DISPLAY:** Switches the keyboard type (English/Latin Capital, English/Latin Lowercase, Symbols).
- Choose OK then press ENTER to save the name and return to the DISC menu.
- **7** Press SETUP to exit the menu.

On-Screen Display Overview

The On-Screen Display provides feedback on the status of the DVD Recorder+VCR and/or the currently loaded disc or tape. To access the On-Screen Display (or OSD), press the DISPLAY button.

Displaying Disc Information

To display information about the currently loaded disc or tape:

On-screen display operation

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

To remove the on-screen display, press DIS-PLAY or RETURN (5) repeatedly until it disappears.

See the descriptions on pages 28 and 29 for detailed explanations of on-screen displays for each media type.

N otes

- Some discs may not provide all the features shown in the on-screen display examples.
- The on-screen display disappears automatically if no button is pressed for seven seconds.

Temporary Feedback Icons

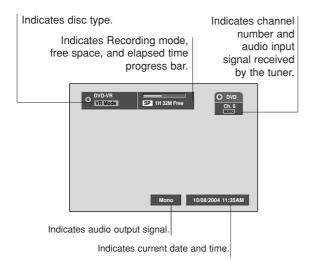
Resume play from this point

Action prohibited or not available

Displaying TV Information

While watching TV, press DISPLAY to display/remove the on-screen display.

For example, when a DVD-RW in VR mode is inserted, you would see a screen similar to the following:



Changing TV Channels

If no disc is playing, you can change TV channels using the 0-9 or CH (+/-) buttons on the remote control or CH (\triangle / \blacktriangledown) buttons on the front panel.

N ote

Antenna channels are numbered 2 through 69. Cable channels are numbered 1 through 125.

Changing TV Audio Channels

Some TV programs are broadcast with both a main and a Secondary Audio Program (SAP). You can change the TV audio using the AUDIO button.

Press AUDIO repeatedly to change the TV audio, according to Broadcast audio signal as shown below.

- STEREO+SAP Audio Signal Stereo → SAP → Mono → Stereo
- STEREO Audio Signal
 Stereo → L → R → Mono → Stereo
- SAP Audio Signal
 Mono → SAP → Mono
- MONO Audio Signal Mono

The current audio channel is displayed on-screen.

- If SAP is selected, but there is no SAP channel being broadcast, you will still hear the main audio channel.
- 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.

OSD Menu Options by Media Type



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 0-9, ENTER
Chapter number	4/26 ▶	Shows the current chapter number and total number of chapters, and skips to the desired chapter number.	◄ / ▶ , or 0-9, ENTER
Time search	(Shows the elapsed playing time, and skips to the desired time.	0-9, ENTER
Audio language and Digital Audio Output mode	□□ 5.1CH ► 1. ENG ►	Shows the current audio soundtrack language, encoding method, and channel number, and changes the setting.	∢ /▶
Subtitle language	□ OFF ▶	Shows the current subtitle language, and changes the setting.	◄ / ▶
Angle	1/3 ▶	Shows the current angle number and total number of angles, and changes the angle number.	◄ / ▶
Sound	◆ NORMAL ►	Shows the current sound mode, and changes the setting.	◄ / ▶



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 0-9, ENTER
Chapter number	1/1	Shows the current chapter number and total number of chapters, and skips to the desired chapter number.	◄ / ▶ , or 0-9, ENTER
Time search	• -:=:	Shows the elapsed playing time, and skips to the desired time.	0-9, ENTER
Digital Audio Output Mode	→ DID 2CH L+R	Shows the current audio encoding method and number of channels, and changes these settings.	∢ /▶
Sound	● NORMAL ►	Shows the current sound mode, and changes the setting.	∢ /▶

OSD Menu Options by Media Type (Continued)



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 0-9, ENTER
Chapter Number	1/1	Shows the current chapter number and total number of chapters, and skips to the desired chapter number.	◄ / ▶ , or 0-9, ENTER
Time search	(Shows the elapsed playing time, and skips to the desired time.	0-9, ENTER
Audio language and Digital Audio Output mode	↑ DC 2CH ► 1. L+R ►	Shows the current audio soundtrack language, encoding method, and channel number, and changes the setting.	∢ /▶
Sound	O → NORMAL ►	Shows the current sound mode, and changes the setting.	∢ /▶

Shows the elapsed playing time and total time.

Shows the current track number and total number of tracks, or shows PBC On mode.

Shows the elapsed playing time and total time.

Shows the current track number and total number of tracks, or shows PBC On mode.

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 skips to the desired track number.	◄ / ▶ , or 0-9, ENTER
Time		0:10:30	Shows the elapsed playing time (Display only).	_
Audio Channel	\$6 ◆	STEREO ▶	Shows the current audio channel, and changes the audio channel.	◄ / ▶
Sound	() •	NORMAL ▶	Shows the current sound mode, and changes the setting.	◄ / ▶

VHS

Shows playback speed, recording information and elapsed progress bar.

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.	◄ /▶

DVD/VCD Playback

Playing a DVD/Video CD

T Playback Setup

- Press the DVD button to set the remote control to operate the DVD deck.
- Turn the TV on and select the video input source connected to the DVD Recorder+VCR.
- Audio system: Turn the audio system on and select the input source connected to the DVD Recorder+VCR.

■ Press EJECT to open the disc tray.

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

Press EJECT to close the tray. READING appears on the front panel display, and playback starts automatically. If playback does not start, press PLAY (►). In some cases, the Disc menu might appear instead.

T ip If a Disc menu is displayed

A Disc menu may be displayed when you load a DVD.

DVD

Use the ◀ ▶ ▲ ▼ buttons to select the title/chapter you want to view, then press ENTER to start playback.

Press TITLE or DISC MENU to return to the Disc menu.

VCD

- Use the number buttons to select the track you want to view. Press RETURN to return to the menu screen.
- Menu settings and the exact operating procedures for using the menu may differ depending on the disc.
 Follow the instructions on each menu screen. You may also set PBC to OFF under the Disc Settings menu; see page 25.

N otes

- If the Parental Lock feature is set and the disc is not within the current Movie Rating setting, the 4-digit code must be entered and/or the disc must be authorized; see "Movie Rating" on page 22.
- The DVD Recorder+VCR will not play discs with Region codes different from the DVD Recorder+VCR.
 The Region code for this DVD Recorder+VCR is 1 (one).

N ote

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

Selecting Titles



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

 Press DISPLAY twice and use ▲ / ▼ to select the Title icon. Then, press 0-9 or ◀ / ▶ to select the desired title number and press ENTER to confirm.

Selecting Chapters/Tracks



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

- Press PREV (I◄◄) or NEXT (►►I) briefly during play-back to select the next chapter/track or to return to the beginning of the current chapter/track.
- Press PREV (◄◄) twice briefly to step back to the previous chapter/track.
- To skip directly to any chapter/track during playback, press DISPLAY twice. Use ▲ / ▼ to select the Chapter icon (or for a Video CD, select the Track icon), then enter the desired chapter/track number using 0-9 or ◀ / ▶ and press ENTER.

N ote

On a Video CD with PBC, you must set PBC to OFF in the Disc Settings menu to use this function; see page 25.

Slow Motion



- 1 Press REW (◄◄) or FF (▶►) during Pause mode. The DVD Recorder+VCR will enter Slow Motion mode.
- 2 Use REW (◄◄) or FF (▶►) to select the desired speed: ◀▮ 1/16, ◀▮ 1/8, ◀▮ 1/4, ◀▮ 1/2, or ▮► 1/16, ▮► 1/8, ▮► 1/4, ▮► 1/2.

With a Video CD, the Slow speed changes to: ▶ 1/8, ▶ 1/4 or ▶ 1/2 (forward).

3 To exit Slow Motion mode, press PLAY (►).

N ote

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

DVD/VCD Playback (Continued)

Playing a DVD/Video CD

(Continued)

Still Picture and Frame-by-Frame Playback DVD Video VR 4R/RW VCD

- 1 Press PAUSE/STEP (II) during playback. The DVD Recorder+VCR will go into Pause mode.
- 2 You can back up or advance the picture frame-byframe by pressing ◀ / ▶ repeatedly during Pause mode.

N ote

Frame-by-frame reverse playback is not available on Video CDs.

Search DVD Video VR +R/RW VCD

- 1 Press REW (◄◄) or FF (▶►) during playback. The DVD Recorder+VCR will go into Search mode.

With a Video CD, the Search speed changes to: ▶▶, ▶▶▶, ▶▶▶ (forward) or ◄◄, ◄◄◄, ◄◄◄ (backward).

3 To exit Search mode, press PLAY (►).

N ote

When you press REW or FF during Search mode to resume normal speed, Search mode is canceled.

Random Karaoke DVD VCD

- 1 Press RANDOM during Play mode. The DVD Recorder+VCR automatically begins Random playback and "RANDOM" appears on the front panel display.
- 2 To return to normal playback, press RANDOM until "NORMAL" appears on the front panel display.

T ip

By pressing NEXT during Random playback, the DVD Recorder+VCR selects another title (track) and resumes Random playback.

√ otes

- 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 Disc Settings menu to use the Random function; see page 25.

Repeat DVD Video VR +R/RW VCD



DVD Discs - Repeat Chapter/Title/All/Off

Press REPEAT to select the desired Repeat mode.

- Chapter: Repeats the current chapter.
 Title: Repeats the current title.
 All: Repeats all titles on the disc (VR mode DVD-RW disc only).
- OFF: Exits Repeat mode.

Video CDs - Repeat Track/All/Off

Press REPEAT to select the desired Repeat mode.

- Track: Repeats the current track.All: Repeats all tracks on the disc.
- OFF: Exits Repeat mode.

N ote

On a Video CD with PBC, you must set PBC to OFF in the Disc Settings menu to use the Repeat function; see page 25

Repeat A-B



To repeat a sequence in a title:

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

DVD/VCD Playback (Continued)

Playing a DVD/Video CD

(Continued)

Time Search DVD Video VR +R/RW









The Time Search function allows you to start playback from any chosen time on the disc.

- 1 Press DISPLAY 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 on the on-screen display.
 - "-:--" appears in the Time Search box.
- 3 Within 7 seconds, use the 0-9 buttons to enter the desired start time. Enter hours, minutes, and seconds from left to right in the box.
 - You cannot enter an invalid time.
 - If you enter an incorrect number, press ◀ / ▶ to move the cursor to the desired position, then re-enter the correct num-
- 4 Within 7 seconds, press ENTER to confirm the start
 - Playback starts from the selected time on the disc.









The Zoom function allows you to magnify the video image and scroll around the enlarged image. The Zoom function may not work on some DVDs.

- 1 Press ZOOM during Play mode or Pause mode to activate the Zoom function.
 - A square frame will be displayed in the lower right corner of the screen. If no button is pressed for more than 5 seconds, the square frame will disappear.
 - Each press of the ZOOM button changes Zoom level as fol-
 - X1 (normal size) \rightarrow X2 \rightarrow X4 \rightarrow X1 (normal size)
- 2 Use the ◀ ▶ ▲ ▼ buttons to scroll around the zoomed picture.
- 3 To resume normal playback, press CLEAR or press ZOOM repeatedly until the X1 (normal picture) appears.

Marker Search











You can bookmark up to six scenes during DVD playback and start playback from those scenes with the MARKER and SEARCH button.

- 1 During disc playback, press MARKER when you see the scene you want to bookmark. The Marker icon will appear briefly on the TV screen.
- 2 Repeat step 1 to enter up to six bookmarks on a disc.

To Recall a Marked Scene

1 During disc playback, press SEARCH. The Marker Search menu will appear on the TV screen.



- 2 Use the ◀ ▶ ▲ ▼ buttons to select the Marked scene you want to recall.
- 3 Press ENTER. Playback will start from the Marked scene.
- 4 To exit the Marker Search menu, press RETURN(3)

To Clear a Marked Scene

- During disc playback, press SEARCH. The Marker Search menu will appear on the TV screen.
- 2 Use **▼** ▶ ▲ **▼** to select the Marked scene you want to erase.
- 3 Press CLEAR. The message, "Delete selected marker? Continue?"
- 4 Use
 √ b to select "Yes" then press ENTER.
- 5 Repeat steps 2-4 to erase additional Marked scenes.
- 6 To exit the Marker Search menu, press RETURN (3).

Disc Menus DVD

Many DVDs contain Disc menus that allow you to access special features. To open a Disc menu, press DISC MENU. Then use the 0-9 buttons to directly select the desired option, or use the ◀ ▶ ▲ ▼ buttons to highlight your selection and press ENTER.

- 1 Press DISC MENU. The Disc menu is displayed.
- 2 To exit the Disc menu, press STOP (■).

Title Menus DVD

- 1 Press TITLE.
 - If the current title has a menu, the Title menu will appear on the TV screen. Otherwise, the Disc menu may appear.
- 2 The Title menu may contain camera angles, spoken languages and subtitle options, as well as the chapters for the title.



DVD/VCD Playback (Continued)

Playing a DVD/Video CD

(Continued)

Camera Angle DVD

If a DVD contains scenes recorded at different camera angles, you can select among these angles during playback.

1/3 ▶

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



The Camera Angle icon is displayed on the TV screen when alternate angles are available.

Changing the Audio Language DVD



Press AUDIO then press ◀ / ▶ repeatedly during play-back to hear a different audio language or audio track.

N ote

Some discs feature both Dolby Digital and DTS soundtracks. There is no analog audio output when DTS is selected. To listen to the DTS soundtrack, connect this recorder to a DTS decoder via one of the digital outputs. See page 16 for connection details.

Changing the Audio Channel

VR Video +R/RW VCD

Press AUDIO then press ◀ / ▶ repeatedly during play-back to hear a different audio channel (STEREO, LEFT or RIGHT).

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

3D Surround DVD Video VR +R/RW



The DVD Recorder+VCR can produce a 3D Surround effect, which simulates multi-channel audio playback from two conventional stereo speakers.

- 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 GE 4 OFF

Press SUBTITLE then press ◀ / ▶ repeatedly during playback to select among all available subtitle lanquages.

Finding Locations on a Disc VCD

Use the SEARCH button to access virtually any point during Video CD playback.

1 Press SEARCH during playback.
The progress bar appears on the TV screen.



- 2 Use ◀ / ▶ to find the desired starting position for playback.
- 3 Press ENTER to confirm the selected position. Playback starts from the selected position.

N ote

This function will not work if any bookmarks have been set; see page 32.

Remember Disc Settings DVD

The DVD Recorder+VCR automatically memorizes the settings from the last disc you viewed. Settings remain in memory even if you remove the disc from the DVD Recorder+VCR or switch off the DVD Recorder+VCR. If you load a disc that had its settings memorized, the latest Stop position is automatically recalled.

N otes

- Settings are stored in memory for use at any time.
- The DVD Recorder+VCR does not memorize disc settings if you switch off the DVD Recorder+VCR before playing the disc again.
- This function may not work on some DVDs.

Audio CD and MP3/WMA Operation

Playing an Audio CD or MP3/WMA

Disc CD MP3 WMA

The DVD Recorder+VCR can play audio CDs and MP3/WMA files on CD-ROM, CD-R,CD-RW, DVD+R/RW or DVD-R/RW discs. Before playing MP3/WMA files, read "Notes on MP3/WMA Recordings" on page 35.

Insert the disc and close the tray.

The Music menu appears on the TV screen.





Music-Audio CD Menu

Music-CD Menu



Use ▲/▼ to select a track then press PLAY (►). Playback starts.

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

τ ips

- You can view the TV channel or video input source by pressing RETURN. If you want to return to the Music-CD or Music-Audio CD menu, press DISC MENU/LIST.
- On the Music-CD menu, you can display the folders on the disc. Use ▲ ▼ ◀ ▶ to select the Folder icon on the Music-CD menu then press ENTER twice. Also, you can display only tracks in the folders. Use ▲ ▼ ◀ ▶ to select a folder then press ENTER.
- On CDs with mixed content (audio tracks, MP3/WMA files and JPEG files), you can select among the Music-Audio CD menu, Music-CD menu, and Photo-CD menu by pressing TITLE repeatedly in Stop mode.
- . If you select a folder and press DISPLAY, the number of subfolders and number of MP3/WMA files in the folder are displayed.
- If you are in a file list and want to return to the Folder list, use ▲/▼ to highlight 🗎 and press ENTER to return to the previous menu screen.



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

Music menu options

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

Music-Audio CD menu options CD





Play: Starts playback of the selected track.

Program Add: Adds the track(s) to the Program List; see page 36.

Music-CD menu options MP3 WMA





· When you select a track.



Play: Starts playback of the selected track.

Program Add: Adds the track(s) to the Program List; see page 36.

· When you select a folder.



Open: Displays sub-folders and MP3/WMA files in the selected fold-

Program Add: Adds all track(s) in the folder to the Program List; see page 36.

Audio CD and MP3/WMA Operation (Continued)

Pause CD MP3 WMA

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

Skip Tracks

CD MP3 WMA

- Press PREV (I◄◄) or NEXT (►►I) briefly during playback to go to the next track or to return to the beginning of the current track.
- Press PREV I

 twice briefly to step back to the previous track.
- To skip directly to any track during Audio CD playback, enter the track number using the 0-9 buttons.

Repeat CD MP3 WMA

Press REPEAT to select a desired repeat mode.

- · TRACK: Repeats the current track.
- · ALL (CD): Repeats all tracks on the disc.
- FOLDER (MP3/WMA): Repeats all tracks in the selected folder.
- OFF: Cancels Repeat mode (no display).

Random CD MP3 WMA

- 1 Press RANDOM during Play or Stop mode. The DVD Recorder+VCR automatically begins Random Playback and RANDOM appears on the menu screen.
- 2 To return to normal playback, press RANDOM again, then RANDOM disappears from the menu screen.

Changing the Audio Channel

CD MP3 WMA

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

Search CD

- 1 Press REW (◄◄) or FF (►►) during playback. The DVD Recorder+VCR will go into SEARCH mode.
- 2 Press REW or FF to select the desired 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 A-B at your chosen start point.
 The Repeat icon and "A-" appear on the menu screen.
- 2 Press A-B again at your chosen end point. The Repeat icon and "A - B" appear on the menu screen, and the repeat sequence begins.
- 3 To exit the sequence and return to normal play, press A-B again.

The Repeat icon disappears from the menu screen.

Notes on MP3/WMA Recordings

About MP3

- An MP3 file is audio data compressed using the MPEG1 audio layer 3 file-coding scheme. Files that have the ".mp3" file extension are called "MP3 files".
- The DVD Recorder+VCR cannot read MP3 files that have file extensions other than ".mp3".

About WMA (Window Media Audio) Files

- A WMA file is made using Microsoft audio compression technology.
- WMA (Windows Media Audio) offers twice the audio compression of the MP3 format.

MP3/WMA Disc compatibility with this recorder is limited as follows:

- CD-R/RW physical format should be "ISO 9660" and "JOLIET".
- If you record MP3 files using software which cannot create a FILE SYSTEM (e.g., Direct-CD, etc.), it is impossible to playback MP3 files. "Easy-CD Creator" is recommended.
- The total number of files and folders on the disc are free but the total number of files and folders on the folder should be less than 999.

This DVD Recorder+VCR 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-Rs containing MP3 or WMA files) that require certain pre-existing conditions (see above) to ensure compatible playback.

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

Program Playback with Audio CD and MP3/WMA

Program Playback enables you to make custom playlists of Audio CD or MP3/WMA tracks. Program can contain 99 Audio CD tracks or 256 MP3/WMA tracks.

Insert an Audio CD or MP3/WMA disc.
The Music menu will appear.

Use ▲ ▼ to select a track or folder on the list then press ENTER.

The options appear on the left side of the menu.

N otes

- Press and hold ▼ to move quickly to the next track or folder.
- Press and hold \(\bigs \) to move quickly to the previous track or folder.

Use ▲ ▼ to highlight "Program Add" then press ENTER.

The selected track is added to the Program List.

N ote

You can switch between the Track List and Program List menus by pressing DISC MENU/LIST (Music-CD only).

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

T ip

You can add multiple tracks to your Program List.

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

N otes

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





5 Audio CD : Press ► to move the tracks to the Program list.

The programmed track you selected last is highlighted on the program list.

MP3/WMA: Go to the next step.

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

7 Press PLAY (►) to start.

Playback begins in the order in the programmed order and "PRG" appears on the front panel display.

Playback stops after playing the last programmed track in the program list.

Program List menu options

CD MP3 WMA

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



Play: Playback begins in the programmed order starting from the selected track.

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

Delete: Deletes the selected track(s) from the Program List menu.

Program Playback with Audio CD and MP3/WMA (Continued)

Repeat Programmed Tracks

Press REPEAT to select the desired Repeat mode.

- TRACK : Repeats the current track.
- · ALL : Repeats all the tracks in the program list
- OFF: Cancels Repeat mode (no display).

Erasing a Track from the Program List

- 1 Select the track that you wish to erase from the Program List then press ENTER. The options appear on the left side of the menu.
- 2 Select Delete then press ENTER. The selected track is deleted from the Program List.
- 3 Repeat steps 1-2 to delete additional tracks from the Program List.

Erasing multiple tracks from the Program List

- Select a track on the Program List then press MARKER.
- 2. Repeat step 1 to mark additional tracks.
- 3. Select any marked track then press ENTER.

 The options appear on the left side of the menu.
- Use ▲ / ▼ to highlight "Delete" then press ENTER.
 All marked tracks are deleted from the Program List.

Changing track order in the Program List

- 1 Select the track you wish to move on the Program List then press ENTER. The options appear on the left side of the menu.
- 2 Select Move then press ENTER.
 A yellow bar appears in the Program List.
- 3 Use ▲/▼ to move the yellow bar to the desired location, then press ENTER. The selected track is moved.
- 4 If you wish to move other tracks repeat steps 1 3.



Use the MARKER button to move multiple tracks.

JPEG Disc Operation

Viewing a JPEG File IPEG

The DVD Recorder+VCR can play discs with JPEG files. Before playing JPEG recordings, read "Notes on JPEG Recordings" on page 39.

Insert a disc and close the tray.

The Photo-CD menu appears on the TV screen.



2 Use ▲ ▼ ◀ ▶ to select a folder, then press ENTER.

A list of files in the selected folder appears.



N ote

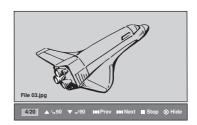
If the icon displays in the Photo-CD menu, it means you cannot see those JPEG files.

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

T ip

- On the Photo-CD menu, press and hold ▼/▲ to move quickly to the next or previous track or folder.
- You can view the TV channel or video input source by pressing RETURN. If you want to return to the Photo-CD, press DISC MENU/LIST.
- On CDs with mixed content (Audio tracks, MP3 files and JPEG files), you can select among the Music-Audio CD menu, Music-CD menu, and Photo-CD menu by pressing TITLE repeatedly in Stop mode.
- If you are in a file list and want to return to the folder list, use
 ▲/▼ to highlight □ and press ENTER to return to the previous menu screen.

Use ▲ / ▼ to select "Full Screen" then press



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

Photo menu options

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

Photo-CD menu options **JPEG**

· When you select a photo file.

Full Screen
Slide Show

Full Screen: Shows the selected file as a full screen image.

Slide Show: Displays the Slide Show menu; see page 39.

· When you select a folder.

Open

Open: Displays sub-folders and JPEG files in the folder.

JPEG Disc Operation

Still Picture

Press PAUSE/STEP (III) during a Slide Show to pause playback.

Skip Images

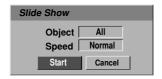
While viewing a picture, press PREV or NEXT (I◄ or ►) once to advance to the next file or return to the previous file.

Rotate Images

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

View Slide Shows

- 1. Select "Slide Show" on the Photo-CD menu.
- 2. Press ENTER.
 The Slide Show menu appears.



- Use ▲ ▼ ◀ ► to set the options.
 Object: Selected file or All files.
 Speed: Sets the Slide Show speed to Slow, Normal, or Fast.
- 4. Select the "Start" option then press ENTER to start the Slide Show.
- Press STOP to stop the Slide Show and return to the Photo-CD menu.

N ote

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
 megapixels 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®.

VCR Playback

Before You Begin

- Press the VCR button to set the remote control to operate the VCR deck.
- Turn the TV on and select the video input source connected to the DVD Recorder+VCR.
- Audio system: Turn the audio system on and select the input source connected to the DVD Recorder+VCR.

Playing a VHS Tape VHS

Preparation:

- Turn on the TV.
- Tune the TV to the DVD Recorder+VCR output channel (CH 3 or 4) or select the video input connected to the DVD Recorder+VCR.

Insert a prerecorded video cassette.

The OO indicator will light and the DVD Recorder+VCR will power up automatically.

- Make sure the ② indicator on the front panel display is not lit. If it is, press POWER once.
- If a tape without a safety tab is inserted, the DVD Recorder+VCR will start playback automatically.

Press PLAY (►).

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 DVD Recorder+VCR.
- During playback, the TV/VCR selector switches to VCR mode automatically.

Press STOP (■) to stop playback.

STOP icon appears on the TV screen.

• If the tape reaches the end before STOP (■) is pressed, the DVD Recorder+VCR will automatically stop, rewind, eject the tape, and turn itself off.

Tracking Control VHS

Auto Tracking

The automatic tracking function adjusts the picture to remove snow or streaks. It works in the following cases:

- When a tape is played for the first time.
- When the tape speed (SP, LP, SLP) changes.
- When streaks or snow appear because of scratches on the tape.

Manual Tracking

If noise appears on the screen during playback, press either TRACK (+/-) on the remote control or

CH (\triangle/∇) 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 Playback Features **WHS**

Notes on special playback features

- Horizontal lines (noise bars) will appear on the TV screen. This is normal.
- The audio is automatically muted during special playback modes, so there is no sound during search, slow motion, etc.
- During high-speed picture search, a short time is needed to stabilize tape speed when re-entering 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 FF (▶▶) during playback. Search mode will be activated.
 - If the DVD Recorder+VCR is left in Search mode for more than 3 minutes, the DVD Recorder+VCR will automatically enter Play mode to protect the tape and video heads.
- 2 To return to normal playback, press PLAY (►).

Still Picture and Frame-by-Frame Playback

- 1 Press PAUSE/STEP (III) during playback. A still picture appears on the TV screen.
 - If a still picture vibrates vertically, stabilize it by using TRACK (+/-) on the remote control.
 - If the DVD Recorder+VCR is left in Still mode for more than 5 minutes, the DVD Recorder+VCR will automatically enter Stop mode to protect the tape and video heads.
- 2 Press PAUSE/STEP (II) repeatedly to advance the video picture one frame at a time while viewing a still
- 3 To return to normal playback, press PLAY (►).

Slow Motion

- 1 While in Still mode, press FF (►►). The tape will be played back at a speed 1/19 times slower than normal speed.
 - During Slow Motion playback, use TRACK (+/-) on the remote control to minimize noise.
 - If Slow Motion mode continues for more than 3 minutes, the DVD Recorder+VCR will automatically change to normal Play mode.
- 2 To return to normal 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 realtime counter to 0:00:00 by pressing CLEAR. Continue to play or record.
- 4 Press STOP when recording or playback finishes.
- 5 Press RETURN (か).

The tape automatically stops when the tape counter returns to about "0:00:00".

Basic Recording

Recording from TV

Follow the instructions below to record a TV program.

Turn on the DVD Recorder+VCR and load a recordable disc or tape.

Make sure your TV input is set to view the DVD Recorder+VCR

 If you load a blank DVD-RW disc, you will be prompted to set the Disc Record mode. Choose VR mode for maximum editing options or Video mode for maximum compatibility with other DVD players; see page 24.

2 Set the desired Recording mode by pressing REC MODE repeatedly.

DVD: XP (1 hr/disc), SP (2 hrs/disc), LP (4 hrs/disc), or EP (6 hrs/disc)

VCR: SP (Standard Play), SLP (Super Long Play - 3 times SP)

Use the CH (▲ / ▼) buttons to select the TV channel you wish to record.

Press AUDIO to select the audio channel to record (Stereo, SAP, or Mono).

The table below shows what audio channel will be recorded with different settings and different types of broadcasts. The last column (Monitor Audio) shows what you will hear during recording. For example, if the TV broadcast is in Stereo, then setting the DVD Recorder+VCR to Stereo will record the broadcast in Stereo, and the Monitor Audio will also be in Stereo.

If you set the audio channel to SAP, but no SAP channel is broadcast, the main audio (Mono or Stereo) will be recorded.

TV Broadcast	Selected Audio	Broadcast Audio		Monitor
		L Ch	R Ch	Audio
MONO	MONO	MONO	MONO	MONO
STEREO	STEREO	L	R	STEREO
	Left	L	L	Left
	Right	R	R	Right
	MONO	MONO	MONO	MONO
MONO+SAP	MONO	MONO	MONO	MONO
	SAP	SAP	SAP	SAP
STEREO+SAP	STEREO	L	R	STEREO
	SAP	SAP	SAP	SAP
	MONO	MONO	MONO	MONO

Fress REC (●) once.

Recording will start. The REC indicator lights on the front panel display.

- Recording continues until you press STOP (■) or the disc is full.
- To record for a fixed length of time, see One Touch Record at right.

Press STOP (■) to stop recording.

N ote

- The maximum number of DVD titles is 99.
- If the DVD Recorder+VCR is powered off during DVD recording, the recording will not be saved.

One Touch Record (OTR)

One Touch Recording allows you add recording time in fixed increments at the touch of a button.

Follow steps 1-4 under Recording from TV.

Press REC (•) repeatedly to set the length of the recording.

Recording starts after the first press. Each subsequent press increases the recording time by 10 minutes (DVD, to a maximum of 360 minutes) or 30 minutes (VCR, to a maximum of 540 minutes).

The recording time is displayed on the TV screen.



One Touch Recording Menu

Checking the Recording Time

Press REC (ullet) or DISPLAY to show the elapsed recording time on the on-screen display.

The remaining recording time is shown on the front panel display.

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) or 30 minutes (VCR).

To Pause the Recording

- Press PAUSE/STEP (II) to pause the disc during recording.
- 2 When you want to continue recording, press PAUSE/STEP (■) or REC (●).

N otes

- If you press PAUSE/STEP (II) during One Touch Recording, it will be canceled.
- The DVD Recorder+VCR will automatically power off when the One Touch Recording ends.

To record one TV program while watching another

- Press TV/VCR to select TV mode during recording.
 The VCR indicator disappears.
- 2 Select the channel you wish to view on your TV.

ip (VCR mode only)

Always use PAUSE/STEP (\blacksquare) for best results when making changes during recording .

For example: To change channels during recording, first press PAUSE/STEP (II) to put the unit in Pause mode. Then select the desired channel on the DVD Recorder+VCR, and press PAUSE/STEP (II) again to resume recording.

Basic Recording

One Touch Copy - DVD to VHS

You can copy the contents of a DVD to a VHS tape using the COPY button.

N ote

If the DVD 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. "Copy-protected. Cannot record." is displayed on the TV screen.

Insert a Disc

Insert the disc you wish to copy in the DVD deck and close the disc tray.

Insert a VHS Tape

Insert a blank VHS videotape into the VCR deck.

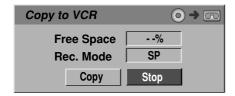
Select DVD mode by pressing DVD on the remote control or pressing DVD/VCR on the front panel.

Find the place on the DVD (or Disc) from which you want to start recording using the PLAY, FF, REW and PAUSE functions.

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

Fress the COPY button on the remote control or front panel.

The Copy to VCR menu appears.



- **B** Use ▲ / ▼ / ◀ / ▶ to select the desired Record Mode:
 - SP (Standard Play)
 - SLP (Super Long Play, 3 times SP).
- Select Copy then press ENTER or COPY to start copying.



If you press PAUSE 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, FF, PAUSE/STEP, etc. The VCR deck will remain in Pause mode. To resume copying, press the COPY button twice.

Stop the Copy Process

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

One Touch Copy - VHS to DVD

You can copy the contents of a VHS tape to a recordable DVD using the COPY button. This allows you to archive your old VHS tapes to DVD.

N ote

If the VHS videotape 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.

Insert a VHS Tape

Insert the VHS videotape you wish to copy into the VCR deck.

Insert a recordable disc.

Insert a blank DVD-R/-RW or DVD+R/RW disc in the DVD deck and close the disc tray.

N ote

When using a DVD-RW disc, you must initialize the disc in VR or Video mode; see page 24.

- Select VCR mode by pressing VCR on the remote control or pressing DVD/VCR on the front panel.
- Find the place on the VHS tape from which you want to start recording using the PLAY, FF, REW and PAUSE functions.

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

5 Press the COPY button on the remote control or front panel.

The Copy to DVD menu appears.



- **b** Use ▲ / ▼ / ◀ / ▶ to select the desired Record quality:
 - · XP (1 hr/disc)
 - SP (2 hrs/disc)
 - · LP (4 hrs/disc)
 - · EP (6 hrs/disc)
- Select Copy then press ENTER or COPY to start copying.



If you press PAUSE 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, FF, PAUSE/STEP, etc. The DVD deck will remain in Pause mode. To resume copying, press the COPY button twice.

Stop the Copy Process

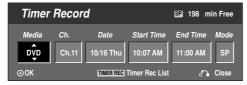
To stop copying at any other time, press STOP (\blacksquare). Copying will stop automatically when the VHS tape ends.

Timer Recording

The Timer Recording function allows you to record up to 8 programs within a period of one month.

Press TIMER RECORD.

The Timer Record menu appears.



- Media Choose the desired media (DVD or VCR).
- Ch. Choose the desired channel, 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: XP, SP, LP, EP, or AT (Auto) VCR: SP, SLP, AT (Auto)

AUTO mode determines how much time is available on the disc or tape and switches the Record mode, if necessary, to complete recording the program.

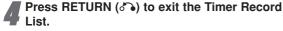
Enter the necessary information for your Timer Recording(s).

- ◄ / ► (left/right) Moves the cursor left/right
- ▲ / ▼ (up/down) Changes the setting at the current cursor position
- Press RETURN to exit the Timer Record menu.
- · Press ENTER after filling in all the program infor-
- Press TIMER RECORD to display the Timer Record List.



Press ENTER to save the program.

The Timer Record List will appear.



Be sure to load a recordable disc or tape.



- · 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 DVD Recorder+VCR will record the audio according to the current TV tuner setting (Stereo, Mono or SAP). Use the AUDIO button to set the audio before switching the DVD Recorder+VCR to Standby mode.
- You must press STOP to stop the Timer Recording.
- The DVD Recorder+VCR 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.

Checking Timer Recording Details

Press TIMER RECORD twice to check your Timer Recording settings.

- Use ▲ / ▼ to select a program.
- Press **ENTER** to edit the selected program. The 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 Recording any time before the recording actually starts.

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

Stopping a Timer Recording in Progress

After a Timer Recording has started, you can still cancel the program by pressing STOP.

Timer Recording Troubleshooting

Even if a Timer Recording is set, the DVD Recorder+VCR will not record if:

- · No disc is loaded.
- A non-recordable disc is loaded.
- Disc Protect is set to ON in the Disc Settings menu; see page 25.
- There are already 99 titles recorded on the disc.

You cannot enter a Timer Recording if:

- · A recording is already under way.
- The start time has already passed.
- · Eight Timer Recordings have already been set.

If two or more Timer Recordings 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.

Confirmation is not possible when:

- The Disc Protect setting is set to ON.
- There are already 99 titles recorded on the disc.

If the disc is damaged, the recording may not complete successfully, even if the Check field shows "Rec. OK".

Recording from an External Input

Recording from External Components

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

Make sure the component you want to record from is connected properly to the DVD Recorder+VCR; see page 17.

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

- Tuner: Built-in tuner
- · AV1: Audio/Video Input on back panel
- · AV2: Audio/Video or S-Video Input on front panel
- · DV: DV Input on front panel

N ote

Check that the Audio In settings under DV Record Audio are as you want them; see page 24.

Load a recordable disc or tape.

Set the desired Recording quality by pressing REC MODE repeatedly.

DVD: XP (1 hr/disc), SP (2 hrs/disc), LP (4 hrs/disc), EP (6 hrs/disc)

VCR: SP (Standard Play), SLP (Super Long Play - 3 times SP)

Fress REC (●) once.

Recording will start. The REC indicator lights on the front panel display.

- Recording continues until you press STOP (■) or the disc is full.
- To record for a fixed length of time, see "One Touch Record" on page 41.

Press STOP (■) to stop recording.

√ ote

If your source is copy-protected, you will not be able to record it using the DVD Recorder+VCR. See "Copyright Notice" on page 8 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 the DVD Recorder+VCR. You can use the DVD Recorder+VCR remote to control both the camcorder and the DVD Recorder+VCR. Before recording, make sure that the audio input for the DV IN jack is set up; see page 24.

au_{ips}

- · The source signal must be DVC-SD format.
- Some camcorders cannot be controlled using the DVD Recorder+VCR remote.
- If you connect a second DVD recorder using a DV cable, you cannot control the second recorder from this one
- You cannot control the DVD Recorder+VCR remotely from a component connected to the DV IN jack.
- You cannot record date and time information from a DV cassette.
- Make sure your digital camcorder is connected to the front panel DV IN jack; see page 17.
- Make sure DV Record Audio is set correctly.
 Choose between Audio 1 (original audio) and Audio 2 (overdubbed audio); see page 24 for details.
- Press INPUT repeatedly to select the DV input.

 DV appears on the front panel display and on the TV screen
- Find the place on the camcorder tape from which you want to start recording.

For best results, pause playback at the point you want to start recording.

 Depending on your camcorder, you can use the DVD Recorder+VCR remote to control the camcorder using the STOP, PLAY and PAUSE functions.

Fress REC (●) once to start recording.

- Recording is automatically stopped if the DVD Recorder+VCR detects no signal.
- You can pause or stop the recording by pressing PAUSE/STEP or STOP. You cannot control the camcorder from the remote control during recording.
- In Video mode, the final frame of the recording may remain displayed on screen for a while after recording stops.

Recording from an External Input (Continued)

What is DV?

Using DV, also known as i.LINK, you can connect a DV-equipped camcorder to the DVD Recorder+VCR 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.

- The DVD Recorder+VCR is only compatible with DVformat (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 the DVD Recorder+VCR.
- You cannot control the DVD Recorder+VCR 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.
 The DVD Recorder+VCR can only record one stereo audio track. Set DV Record Audio to Audio 1 or Audio 2 as desired; see page 24.
- 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 if the DV cable becomes disconnected.
- If DV Record Audio is set to Audio 2 and the Audio 2 signal is not present, DV Record 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 the DVD Recorder+VCR supports connection to just one camcorder.

Check the tape.

There is no cassette loaded in the connected equipment.

Uncontrollable device.

The DVD Recorder+VCR cannot control the camcorder. Try switching off the camcorder then switching it back on.

Updating the information.

The camcorder is updating information for DV.

Camera mode.

The camcorder is set to camera mode.

Troubleshooting

If you cannot get a picture and/or audio through the DV IN jack, check the following:

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

Note

Depending on the connected camcorder, you may not be able to control it using the remote control supplied with the DVD Recorder+VCR.

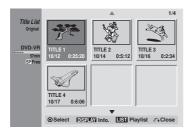
Title List and Chapter List Menu

Using the Title List-Original menu **VR**

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



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



N ote

To switch between the Title List-Original and Title List-Playlist menu, press DISC MENU/LIST repeatedly. The Original and Playlist heading at the top of the screen indicate which mode you are in.

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

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

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



Play: Starts playback of the selected title. View Chap.: Shows the

Chapter List-Original menu of the title; refer to right column on this page.

Delete: Deletes the title from the Title List-Original menu; see

Protect: Prevents accidental recording, editing or deleting of the title; see page 55.

Edit: Selects Edit options.

- Rename: Edits the title name; see page 54.
- Delete Part: Deletes a part of the Title; see page 53.

Playlist Add: Adds the title to the Playlist; see page 52.

Copy to VCR: Copies the title to a VHS tape.

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



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

Using the Chapter List-Original menu

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

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

Use ▲ / ▼ to select "View Chap." from the Title List-Original options then press ENTER.

The Chapter List-Original menu appears on the TV screen.



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

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

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



Play: Starts playback of the selected chapter.

View Title: Shows the Title List-Original menu; refer to left column on this page.

Delete: Deletes the chapter from the Chapter List-Original menu; see page 53.

Combine: Combines two chapters into one; see page 54.

Playlist Add: Adds the chapter to the Playlist; see page 52.

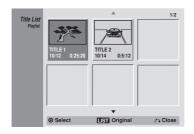
Press RETURN (5) repeatedly to exit the Chapter List-Original menu.





Using the Title List-Playlist Menu (VR)

- Press DISC MENU/LIST repeatedly to display the Title List-Playlist menu.
 - Use the ▲/▼ buttons to display the previous/next page if there are more than 6 titles or chapters.
 - To exit the Title List-Playlist menu, press RETURN (る).



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

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

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



Play: Starts playback of the selected title.

View Chap.: Shows the Chapter List-Playlist menu of the title; refer to right column on this page.

Rename: Edits the title name; see page 54.

Delete: Deletes the title from the Title List-Playlist menu; see page 53.

Delete Part: Deletes a part of the Title; see page 53.

Copy to VCR: Copies the title to a VHS tape.

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

Using the Chapter List-Playlist Menu



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

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

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

The Chapter List-Playlist menu appears on the TV screen.



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

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

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



Play: Starts playback of the selected chapter.

View Title: Shows the Title List-Playlist menu; refer to left column on this page.

Delete: Deletes the chapter from the Chapter List-Playlist menu; see page 53.

Move: Moves a chapter on the Chapter List-Playlist to a position within the title; see page 55.

Combine: Combines two chapters into one; see page 54.

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

Using the Title List menu Video

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

Press DISC MENU/LIST to display the Title List.



- 2 Use ▲ / ▼ to choose a title then press ENTER.

 Title List options appear on the left side of the Title List display.
- Use ▲ / ▼ to select an option then press ENTER to confirm.



Play: Starts playback the selected title.

Rename: Edits the title name; see page 54.

Delete: Deletes the title from the Title List.

Copy to VCR: Copies the title to a VHS tape.

Press RETURN (5) repeatedly to exit the Title List.

T ip

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

Deleting a Title Video

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

ACaution

- If you erase a title from a DVD-R disc, the title will disappear from the Title List, but the available recording time will not increase.
- When erasing a title from a DVD-RW disc, the remaining time available for recording will only increase if it is the last title on the disc.
- Press DISC MENU/LIST to display the Title List.
- 2 Use ▲ ▼ ◀ ▶ to choose the title you want to erase then press ENTER.

The Title List options appear on the left side of the Title List screen.



Use ▲ / ▼ to select 'Delete' then press ENTER to confirm.

The confirm message for deleting will appear.

- Use ◀ / ▶ to select 'Yes' then press ENTER.

 The selected chapter or title is deleted.

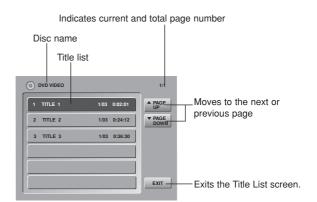
 After pressing ENTER, the new, updated menu is
- displayed.

 Repeat steps 2 4 to continue to delete from the
- Press RETURN () to exit the menu.

menu.

If the disc has already been finalized

You will see a screen like the one shown below:

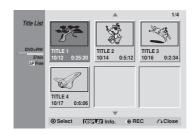


Using the Title List menu +RW

The DVD+RW Title List menu is where you view, edit, protect, delete, and make other changes to the content of the disc. You can also play individual titles directly from the Title List menu. The recorder must be stopped in order to edit using the Title List menu.

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

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



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

The Title List options appear on the left side of the menu.

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



Rename

Hide (Show)

Play: Starts playback of the selected title (except any hidden chapters).

Full Play: Starts playback of the selected title (including any hidden chapters).

View Chap: Moves to the Chapter List menu; refer to right column on this page.

Delete: Deletes the title; see page 53.

Protect: Prevents accidental recording, editing or deleting of the title; see page 55.

Edit: Selects Edit options.

- **Rename:** Edits the title name; see page 54.
- Divide: Divides one title into two titles; see page 56.
- Hide (Show): Hides (or Shows) all chapters within the title; see page 56.

Copy to VCR: Copies the title to a VHS tape.

Press RETURN (ふ) repeatedly to exit the Title List menu.



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

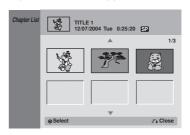
⚠ Caution

If you press REC () when the Title List menu is displayed, the selected title will be erased (overwritten) when the recording starts; see page 57 for more details.

Using the Chapter List menu **FRW**

- Press DISC MENU/LIST to display the Title List menu.
- Use ▲ ▼ ◀ ► to choose the title you want to view on the Title List menu then press ENTER. The Title List options appear on the left side of the menu.
- Use ▲ / ▼ to select 'View Chap.' from the Title List options then press ENTER.

The Chapter List menu appears on the TV screen.



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

The Chapter List options appear on the left side of the menu.

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



Play: Starts playback of the selected chapter.

View Title: Moves to the Title List menu; refer to left column on this page.

Combine: Combines two chapters into one; see page 54.

Hide (Show): Hides (or Shows) the selected chapter; see page 56.

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

Using the Title List menu -R

The DVD+R Title List menu is where you view, edit, protect, delete, and make other changes to the content of the disc. You can also play individual titles directly from the Title List menu. The recorder must be stopped in order to edit using the Title List menu.

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

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



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

The Title List options appear on the left side of the Title List display.

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



Rename

Hide (Show)

Play: Starts playback of the selected title (except any hidden chapters).

Full Play: Starts playback of the selected title (including any hidden chapters).

View Chap: Moves to the Chapter List menu; refer to right column on this page.

Delete: Deletes the title from the Title List menu; see page 53.

Protect: Prevents accidental recording, editing or deleting of the title; see page 55.

Edit: Selects Edit options.

- Rename: Edits the title name; see page 54.
- Hide (Show): Hides (or Shows) all chapters within the title; see page 56.

Copy to VCR: Copies the title to a VHS tape.

Press RETURN (ঠি) repeatedly to exit the Title List menu.



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



Using the Chapter List menu +R

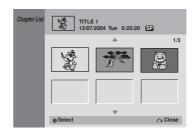
Press DISC MENU/LIST repeatedly to display the Title List menu.

Use ▲ ▼ ◀ ▶ to choose the title you want to view on the Title List menu then press ENTER.

The Title List options appear on the left side of the Title List display.

Use ▲ / ▼ to select "View Chap." from the Title List options then press ENTER.

The Chapter List menu appears on the TV screen.



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

The Chapter List options appear on the left side of the Chapter List display.

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



Play: Starts playback of the selected chapter.

View Title: Shows the Title List menu of the chapter; refer to the left column on this page.

Combine: Combines two chapters into one; see page 54.

Hide (Show): Hides (or Shows) the selected chapter; see page 56.

Press RETURN (5) repeatedly to exit the Chapter List menu.

Title and Chapter Editing

About Original vs. Playlist Content



Edits you make to the Original content of a DVD-RW disc in VR mode change the actual content of the disc. For example, if you delete a title or chapter from the Original content, that title or chapter is deleted from the disc, freeing up extra recording time.

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

About Titles, Chapters and Parts VR

Titles in the disc's Original content contain one or more chapters. When you insert a title into a Playlist, all the chapters within that title also appear. In other words, chapters in a Playlist behave exactly the same as chapters on a DVD-Video disc.

Parts are sections of Original or Playlist titles. From the Original and Playlist menu you can add or delete parts. Adding a chapter or title to a Playlist creates a new title made up of a section (i.e., chapter) of an Original title. Deleting a part removes part of a title from the Original or Playlist menu.

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

Adding Chapter Markers VR +R









You can put a chapter marker anywhere in a Playlist or Original title during recording or playback. Once the chapter is marked, you can use the Chapter Search feature, as well as Erase, combine and move chapters in the Chapter List-Original or Chapter List-Playlist menu. You can insert up to 999 chapter markers in both the Original and Playlist contents.

N ote

Chapter markers are inserted at regular intervals automatically. You can change this interval in the Setup menu (see Auto Chapter on page 24).

Play the title (Original or Playlist).

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

A Chapter Marker icon appears on the TV screen.

You can also put chapter markers during recording.

Changing Title Thumbnails









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, you can select a different still picture from within the title.

Play the title (Original or Playlist).

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

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

T ip

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

Making a New Playlist VR

Use this function to add an Original title or chapter to a Playlist. When you do this, the whole title is put into the Playlist (you can even delete parts you don't want later—see "Deleting Titles/Chapters" on page 53).

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

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

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

If you want to display the Chapter List-Original menu, refer to "Using the Chapter List-Original menu" on page 46.

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

The Title List-Original or Chapter List-Original

options appear on the left side of the screen.





Title List-Original

Chapter List-Original

Use ▲ / ▼ to select "Playlist Add" from the Original (Title or Chapter) options then press ENTER.



Select 'New Playlist' then press ENTER.

The new title appears in the updated Playlist. All chapters in the title are added to the Playlist.

Adding Titles/Chapters to a Playlist



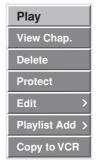
You can add an Original title or chapter to a new or existing Playlist.

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

If you want to show the Chapter List-Original menu, refer to "Using the Chapter List-Original Menu" on page 46.

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

The Title List-Original or Chapter List-Original options appear on the left side of the screen.





Title List-Original

Chapter List-Original

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



Choose a new or existing Playlist in which to insert the title, then press ENTER.

The title appears in the updated Playlist menu.

- **5** Repeat steps 1-4 to continue adding to the Playlist.
- Press RETURN (ക്) repeatedly to exit the menu.

Deleting Titles/Chapters



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

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

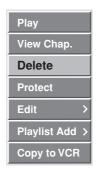
N ote

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

On the Title List or Chapter List menu, use ▲ ▼
◆ to choose the chapter or title you want to delete then press ENTER.

Options appears on the left side of the screen.

Select the 'Delete' option on the menu.
e.g., If you select "Delete" on the Title List-Original menu:



Press ENTER to confirm.

The confirm message for deleting will appear.

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

The selected chapter or title is deleted.

After pressing ENTER, the new, updated menu is displayed.

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

ি Press RETURN (ঠি) repeatedly to exit the menu.

N ote

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

Deleting Part of a Title VR

You can delete parts of a title (such as commercials) that you do not want in your final DVD.

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

2 Use ▲ ▼ ◀ ▶ to choose the title you want to delete then press ENTER.

The options appear on the left side of the menu.

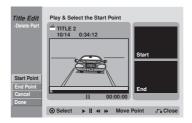
Select 'Delete Part' from the options on the

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



Press ENTER.

The Title Edit (Delete Part) menu appears on the TV screen and the DVD Recorder+VCR goes into Pause mode. The Start Point option is highlighted.



Use PLAY, PAUSE/STEP, FF, REW, and Slow Motion playback to find the starting point.

The segment is indicated in yellow on the Progress Bar.

Press ENTER at the starting point of the seg-

Press ENTER at the starting point of the segment you want to erase. The End Point option is selected.

7 Use PLAY, PAUSE/STEP, FF, REW, and Slow Motion playback to find the ending point.

Press ENTER at the ending point of the section you want to erase.

The Done option is selected.

To cancel the Edit mode, select Cancel using \blacktriangle / \blacktriangledown then press ENTER.

Press ENTER to delete the selected part.
When the confirm menu appears, select "Yes" using

✓ / ► then press ENTER.

To erase additional segments, repeat steps 5-9.

When finished editing, press RETURN (3). The Title List-Original or Title List-Playlist menu appears.

N ote

If you select Cancel then press ENTER, the DVD Recorder+VCR will cancel the edit and return to Pause mode.

Renaming a Title VR Video +RW





+R

You can name Original and Playlist titles independently.

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

Use ▲/▼ to select the 'Rename' option then press ENTER.

The Keyboard menu appears.

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



Enter a name for the title. Use ▲ ▼ ◀ ▶ to select a character then press ENTER to confirm your selection. Refer to step 5 as shown on page 26 (Disc Label).



- Choose OK then press ENTER to save the name and return to the previous menu screen.
- Press RETURN () repeatedly to exit the menu.

N otes

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

Combining Two Chapters

VR +RW +R

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

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

The Chapter List options appear on the left side of the menu.

e.g., if you select "Combine" on the Chapter List-Original menu:



Use ▲ / ▼ to select the "Combine" option then press ENTER.

The confirm message for combining will appear. After pressing ENTER, the new, updated menu is displayed.

- Repeat steps 1 2 to continue to combine from the menu.
- Press RETURN () repeatedly to exit the

√ ote

This function will not work under the following con-

- · If there is only one chapter within the title.
- · If a part from the original title was erased.
- · If two chapters are created from different titles.
- If the order of the chapters was changed in the original title.

Moving a Playlist Chapter VR

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

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

To display the Chapter List-Playlist menu, refer to "Using the Chapter List-Playlist Menu" on page 47.

N ote

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



- 2 Select a chapter from the Chapter List-Playlist menu.
- Press ENTER.

 The Chapter List-Playlist options appear on the left side of the screen.



- Use ▲ / ▼ to select "Move" from the Playlist options then press ENTER.
- Use ▲ ▼ ◀ ▶ to choose the location you want to move the chapter to then press ENTER.

 After pressing ENTER, the new, updated menu is displayed.
- Repeat steps 2 5 to continue to move additional chapters.
- Press RETURN (ふ) repeatedly to exit the menu.

Protecting a Title VR +RW +R

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

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

Options appears on the left side of the screen.

Select the "Protect" option on the options menu.

e.g., If you select "Protect" on the Title List-Original menu:



Press ENTER to confirm.

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

 T_{ip}

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

Hiding a Title/Chapter +RW +R



Use this function to hide titles or chapters on the Title List or Chapter List menu (e.g., to hide commercials).

On the Title List or Chapter List menu, use ▲ ▼ ◀ ▶ to choose the title or chapter you want to hide then press ENTER.

Options appears on the left side of the screen.

Select the 'Hide' option on the options menu.

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



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



If you select a title that has already been hidden on the Title List menu, you can 'Show' it by choosing "Show" from the Title List menu options.

Dividing a Title +RW

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

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

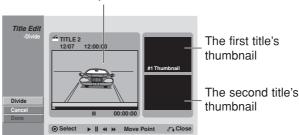
The menu options appear on the left side of the screen.



Select "Divide" from the Title List menu options and press ENTER.

The Title Edit-Divide menu appears and goes into Stop mode. The "Divide" option is highlighted.

Current picture



Use PLAY, PAUSE/STEP, FF, REW, and Slow Motion playback to find the dividing point.

The segment is indicated in yellow on the Progress Bar.

Press ENTER at the point you want to divide the

The Done option is selected.

To cancel the dividing point, select Cancel using A / ▼ then press ENTER.

Press ENTER to fix the dividing point. The title is divided into two new titles. It may take up to 4 minutes to divide the title.

Overwriting a Disc Video VR +RW







You can erase all contents on a disc and start recording from the first section of the disc. The disc format will not be changed.

Turn on the DVD Recorder+VCR and load a recordable disc.

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

The following message appears on the TV screen:



Use **◄** / ▶ to select "Yes" then press ENTER. Recording will start, and the REC indicator will light on the front panel display.

Overwriting a Title **FRW**

Follow these steps to record over a previously recorded title. This feature is not available on DVD+Rs, which always start recording at the end of the disc.

Select the input source you want to record (Channel, AV1, AV2, DV).

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



Use ▲ ▼ ◀ ▶ to choose the title you want to overwrite.

Press REC (●) to start recording. Recording starts from the beginning of the title.

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

N otes

- This function is not available with a protected title.
- If the recording time is longer than the length of the current title, the next title is overwritten. But if the next title is protected, the recording is stopped at the starting point of the protected title.
- If the selected title's recording length is less than 10 seconds, the next title is overwritten. But if the next title is protected, the recording will be cancelled.

Previewing Title Menus





You can see how your Title List menu will appear on another DVD player that is capable of playing DVD+RW or DVD+R discs.

Insert a DVD+R or DVD+RW disc with one or more recordings.

Press TITLE.

The Title List menu will appear as shown below.



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



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

About Playing Recordings on Other

DVD Players

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

Finalizing 'fixes' the recordings and edits 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 DISC MENU/LIST or TITLE. To finalize a disc, refer to "Disc Finalize" on page 25.

- Unfinalized DVD+RWs are playable on regular DVD players.
- The edited contents of a DVD+RW disc are compatible with regular DVD players only after finalizing.
- Any edited contents of a DVD+R disc are not compatible with regular DVD players (e.g., hidden/combined chapters, manually added chapter marks, etc.)

Programming the MultiBrand Remote to Control Your TV

You can program the DVD Recorder+VCR MultiBrand remote control to operate many TV brands and models.

- In the chart below, find the code(s) corresponding to your brand of TV.
- While holding down the TV POWER button, enter the 2-digit code number using the 0-9 buttons.
- If your TV powers off or on, programming is complete. If not, repeat step 2 using the next code listed for your brand of TV.

N ote

Due to the variety of codes used by manufacturers, our company cannot guarantee that the remote control will operate every model of the brands listed.

Buttons Used to Operate Your TV

Once the remote control is programmed, you can use the following buttons to control your TV:

- TV POWER
- TV INPUT
- CH ▼/▲
- VOL +/-
- MUTE

TV Brand Name	Codes	TV Brand Name	Codes
ADMIRAL	16,33,37,44,45	MONTGOMERY	01,06,08,09,
AIWA	70	WARD	23,24,32,33,34
AKAI	01	NEC	01,08
AMARK	09	NOBLEX	07
AOC	01	PACKARD BELL	43
BELL & HOWELL	33	PANASONIC	07,11,13,25,35,36
BROKSONIC	18,19	PHILCO	01,06,07,08,09,
CANDLE	51		15,38,43,58
CCE	07	PHILIPS	06,07,43,61,62,65
CENTURION	08	PIONEER	30
CINERAL	43	PORTLAND	09
CITIZEN	49,50,51,52,53,54,55	PROSCAN	03,37,44
CORONADO	09	QUASAR	11,13
CROWN	09	RADIO SHACK	16,17,23
CURTIS MATHES	01,03,08,33,35,37,44	RCA	01,03,37,44,69
DAEWOO	16,38,39,40,41,42,43	REALISTIC	16,17,23
DAYTRON	01,08	SAMPO	08
EMERSON	01,09,16,17,18,19	SAMSUNG	01,08,09,25,68
FISHER	28,29	SANYO	28,29
FUNAI	46,47	SCOTT	01,08
GENERAL ELECTRIC	03,10,11,13,37,44	SEARS	09,25,26,27,28,29
GRADIENTE	01,56,57,63,67	SEMP	64
HITACHI	09,14,15,43	SHARP	09,22,23,24,60,66
JC PENNEY	01,08,10,27,35	SIGNATURE 2000	01,06,08,09,10,
JVC	20,21,63,67		23,24,33,34
KIOTE	43	SONY	12,62
KMC	09	SOUNDESIGN	51
KTV	01,08,09,31	SYLVANIA	01,04,05,06,07,
LG (GOLDSTAR)	01,07,08,09,35,39,40		08,35,51
LODGENET	33	SYMPHONIC	46,47
LOGIK	33	TATUNG	11
LXI	09,24,25,26,27,28,29	TEKNIKA	07,09,16,33,51
MAGNAVOX	01,02,04,05,06,	TELERENT	09,33
	07,08,09,20,	THOMSON	69
	34,35,43,51,61,62,65	YORX	08
MAJESTIC	33	TOSHIBA	01,25,26,27,64
MARANTZ	01,32	WARDS	01,06,08,09,10,33,34
MEMOREX	33	XR1000	48
MGA/MITSUBISHI	01,08,32,34	ZENITH	02,33,59

TV CODES BY BRAND

Language Code List

Use this list to enter the appropriate code number for your preferred Disc Menu, Disc Audio, and Disc Subtitle languages; see page 20.

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

Country Code List

Use this list to enter the appropriate code number for the "Country Code" setting; see page 23.

Code	Country	Code	Country	Code	Country	Code	Country
AD	Andorra	ER	Eritrea	LC	Saint Lucia	SC	Seychelles
AE	United Arab Emirates	ES	Spain	LI	Liechtenstein	SD	Sudan
AF	Afghanistan	ET	Ethiopia	LK	Sri Lanka	SE	Sweden
AG	Antigua and Barbuda	FI	Finland	LR	Liberia	SG	Singapore
AI	Anguilla	FJ	Fiji	LS	Lesotho	SH	Saint Helena
AL	Albania	FK	Falkland Islands	LT	Lithuania	SI	Slovenia
AM	Armenia	FM	Micronesia	LU	Luxembourg	SJ	Svalbard and Jan Mayen
AN	Netherlands Antilles	FO	Faroe Islands	LV	Latvia		Islands
AO	Angola	FR	France	LY	Libya	SK	Slovak Republic
AQ	Antarctica	FX	France (European	MA	Morocco	SL	Sierra Leone
AR	Argentina	1 //	Territory)	MC	Monaco	SM	San Marino
AS	American Samoa	GA	Gabon	MD	Moldavia	SN	Senegal
AT	Austria	GB	Great Britain	MG	Madagascar	SO	Somalia
AU	Australia	GD	Grenada	MH	Marshall Islands	SR	Suriname
AW		GE				ST	
	Aruba		Georgia	MK	Macedonia		Saint Tome and Principe
AZ	Azerbaidjan	GF	French Guyana	ML	Mali	SU	Former USSR
BA	Bosnia-Herzegovina	GH	Ghana	MM	Myanmar	SV	El Salvador
BB	Barbados	GI	Gibraltar	MN	Mongolia	SY	Syria
BD	Bangladesh	GL	Greenland	МО	Macau	SZ	Swaziland
BE	Belgium	GM	Gambia	MP	Northern Mariana Islands	TC	Turks and Caicos Islands
BF	Burkina Faso	GN	Guinea	MQ	Martinique (French)	TD	Chad
BG	Bulgaria	GP	Guadeloupe (French)	MR	Mauritania	TF	French Southern
ВН	Bahrain	GQ	Equatorial Guinea	MS	Montserrat		Territories
BI	Burundi	GR	Greece	MT	Malta	TG	Togo
BJ	Benin	GS	S. Georgia & S. Sandwich	MU	Mauritius	TH	Thailand
BM	Bermuda		Isls.	MV	Maldives	TJ	Tadjikistan
BN	Brunei Darussalam	GT	Guatemala	MW	Malawi	TK	Tokelau
BO	Bolivia	GU	Guam (USA)	MX	Mexico	TM	Turkmenistan
BR	Brazil	GW	Guinea Bissau	MY	Malaysia	TN	Tunisia
BS	Bahamas	GY	Guyana	MZ	Mozambique	TO	Tonga
BT	Bhutan	HK	Hong Kong	AN	Namibia	TP	East Timor
BV	Bouvet Island	НМ	Heard and McDonald	NC	New Caledonia (French)	TR	Turkey
BW	Botswana		Islands	NE	Niger	TT	Trinidad and Tobago
BY	Belarus	HN	Honduras	NF	Norfolk Island	TV	Tuvalu
BZ	Belize	HR	Croatia	NG	Nigeria	TW	Taiwan
CA	Canada	HT	Haiti	NI	Nicaragua	TZ	Tanzania
CC	Cocos (Keeling) Islands	HU	Hungary	NL	Netherlands	UA	Ukraine
CF	Central African Republic	ID	Indonesia	NO	Norway	UG	Uganda
CG	Congo	ΙE	Ireland	NP	Nepal	UK	United Kingdom
CH	Switzerland	ĪL	Israel	NR	Nauru	UM	USA Minor Outlying
CI	Ivory Coast	IN	India	NU	Niue		Islands
CK	Cook Islands	IO	British Indian Ocean	NZ	New Zealand	US	United States
CL	Chile		Territory	OM	Oman	UY	Uruguay
СМ	Cameroon	ĪQ	Iraq	PA	Panama	UZ	Uzbekistan
CN	China	IR	Iran	PE	Peru	VA	Vatican City State
CO	Colombia	IS	Iceland	PF	Polynesia (French)	VC	Saint Vincent &
CR	Costa Rica	İT	Italy	PG	Papua New Guinea		Grenadines
CS	Former Czechoslovakia	JM	Jamaica	PH	Philippines	VE	Venezuela
CU	Cuba	JO	Jordan	PK	Pakistan	VG	Virgin Islands (British)
CV		JP		PL		VI	Virgin Islands (USA)
	Cape Verde		Japan		Poland Saint Pierre and Miquelon		<u>`</u>
CX	Christmas Island	KE	Kenya	PM		VN	Vietnam
CY	Cyprus	KG	Kyrgyzstan	PN	Pitcairn Island	VU	Vanuatu
CZ	Czech Republic	KH	Cambodia6	PR	Puerto Rico	WF	Wallis and Futuna Islands
DE	Germany	KI	Kiribati	PT	Portugal	WS	Samoa
DJ	Djibouti	KM	Comoros	PW	Palau	YE	Yemen
DK	Denmark	KN	Saint Kitts & Nevis Anguilla	PY	Paraguay	YT	Mayotte
DM	Dominica	KP	North Korea	QA	Qatar	YU	Yugoslavia
DO	Dominican Republic	KR	South Korea	RE	Reunion (French)	ZA	South Africa
DZ	Algeria	KW	Kuwait	RO	Romania	ZM	Zambia
		KY	Cayman Islands	RU	Russian Federation	ZR	Zaire
EC	Ecuador	I/ I					
	Estonia Estonia	KZ	Kazakhstan	RW	Rwanda	ZW	Zimbabwe
EC							

Troubleshooting

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

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 DVD Recorder+VCR signal output.	Select the appropriate video input on the TV so the picture from the DVD Recorder+VCR appears on the TV screen.
	The video cable is not connected securely.	Connect the video cable securely.
	The TV power is turned off.	Turn on the TV.
No sound.	The equipment connected with the audio cable is not set to receive DVD Recorder+VCR signal output.	Select the correct input mode on the audio receiver so you can listen to the sound from the DVD Recorder+VCR.
	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 a new one.
Playback picture is poor.	The disc is dirty.	Clean the disc.
	Tape heads are dirty.	Clean video heads.
	 Tape is a rental or was recorded on another VCR. 	 Use ▲/▼ for manual tracking adjustment while tape is playing.
DVD Recorder+VCR does	No disc is inserted.	Insert a disc or tape. (Check that the disc
not start playback.	No tape is inserted.	indicator on the front panel display is lit.)
	An unplayable disc is inserted.	Insert a playable disc. (Check the disc type, color system, and regional code.)
	The disc is placed upside down.	Place the disc with the playback side down.
	The disc is not placed within the guide.	Place the disc on the disc tray correctly inside the guide.
	The disc is dirty.	Clean the disc.
	The Movie Rating level is set.	Cancel the Movie Rating function or change the rating level.
Picture from external input is distorted	The video signal from the external component is copy-protected.	You cannot connect via the DVD Recorder+VCR. Connect the component directly to your TV.
Some channels are skipped over when using CH (▲ / ▼)	The skipped channels were deleted with the CH. Add/Del feature.	Use the CH. Add/Del feature to restore channels. See "Channel Add/Delete" on page 19.
Picture or sound of	Antenna or cables are loose.	Tighten connections or replace cable.
broadcasting channel is weak or missing.	Wrong Tuning Band is selected in the DVD Recorder+VCR Setup menu.	Try all "Tuning Band" options; see page 18 for details.
Camcorder image not shown.	Camcorder is off.	Turn camcorder on and operate properly.
Camcorder image via A/V input or DV IN to DVD Recorder+VCR is not shown on TV screen.	DVD Recorder+VCR's source is not set to AV1, AV2, or DV IN.	Use INPUT to select AV input channel (AV1, AV2, or DV IN).
Can't play disc recorded	The disc was recorded in Video mode.	Finalize the disc; see page 25.
on this DVD Recorder+VCR on another	Some players will not play even a finalized disc recorded in Video mode.	No solution.
DVD player.	The disc was recorded in VR mode and not finalized.	The other player must be RW compatible in order to play it.
	 Discs recorded with copy-once material can- not be played on other players. 	No solution.

Troubleshooting (Continued)

Symptom	Cause	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 DVD Recorder+VCR's built-in TV tuner.
	 When recording to a Video mode disc, pro- grams that are copy-once protected cannot be recorded. 	Use a VR mode formatted disc for copy-once material.
Timer Recording not possible.	Clock in DVD Recorder+VCR is not set to correct time.	Set clock to correct time. See "Clock (Auto)" or "Clock (Manual)" on page 19.
	Timer has been programmed incorrectly.	Reprogram Timer. See "Timer Recording" on page 43.
	TIMER indicator light does not appear after programming timer.	Reprogram Timer.
Stereo Audio Record	TV is not Stereo-compatible.	No solution.
and/or Playback not present.	Broadcast program is not in stereo format.	No solution.
ent.	DVD Recorder+VCR A/V Out jacks are not connected to TV A/V In jacks.	Make A/V connections. Stereo is available only via A/V output from DVD Recorder+VCR.
	DVD Recorder+VCR Audio/Video Out is not selected for viewing at the TV.	Select AUX or A/V source as TV input.
	DVD Recorder+VCR's TV audio channel is set to SAP or MONO.	Set TV audio channel mode to Stereo. See "Changing TV Audio Channels" on page 27.
	The remote control is not pointed at the remote sensor of the DVD Recorder+VCR.	Point the remote control at the remote sensor of the DVD Recorder+VCR.
Remote control does not	The remote control is too far from the DVD Recorder+VCR.	Operate the remote control within 23 ft (7 m).
work properly.	There is an obstacle in the path of the remote control and the DVD Recorder+VCR.	Remove the obstacle.
	The batteries in the remote control are exhausted.	Replace the batteries with new ones.

Moisture Condensation

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

Reset the DVD Recorder+VCR

If you observe any of the following symptoms...

- The unit is plugged in, but the power will not turn on or off.
- The front panel display is not working.
- The DVD Recorder+VCR is not operating normally.

...you can reset the DVD Recorder+VCR as follows:

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

Technical Specifications

General

Power requirements AC 120V, 60 Hz

35W Power consumption

Dimensions (approx.) 430 X 78.5 X 354 mm (16.9 x 3.1 x 13.9 inches) (w x h x d)

Mass (approx.) 5.6 kg (12.3 lbs)

5°C to 35°C (41°F to 95°F) Operating temperature

Operating humidity 5 % to 90 % Signal system **NTSC**

Recording

DVD Video Recording, DVD-VIDEO Recording format

Recordable discs DVD-ReRecordable, DVD-Recordable, DVD+ReWritable, DVD+Recordable

Recordable time DVD; Approx. 1 hour (XP mode), 2 hours (SP mode),

4 hours (LP mode), 6 hours (EP mode)

VCR; SP: 2 HOURS (T-120), SLP: 6 HOURS (T-120)/8 HOURS (T-160)

Video recording format

Sampling frequency 27MHz MPEG 2 Compression format

Audio recording format

Sampling frequency 48kHz. 96kHz Compression format Dolby Digital

VCR Specifications

Head system Four head helical scan azimuth system

12-hour display type with AM, PM Timer

SP: 33.35 mm/sec, LP: 16.67 mm/sec, SLP: 11.12 mm/sec Tape speed

12.7 mm Tape width

Rewind time About 65 seconds (T-120) Antenna 75 ohms (VHF/UHF)

VHF output signal Channel 3 or 4 (Switchable)

VHF: 2-13, UHF: 14-69, CATV: 1-125 (4A, A-W, W+1 - W+84, A-5 - A-1) Channel coverage

20Hz to 20kHz Frequency range

43dB Signal-to-noise ratio 88 dB Dynamic range 60 dB Channel separation

DVD Specifications

Laser system Semiconductor laser, wavelength 650 nm

Frequency response DVD (PCM 48 kHz): 8 Hz to 22 kHz, CD: 8 Hz to 20 kHz

Signal-to-noise ratio More than 95dB Less than 0.008% Harmonic distortion More than 90 dB Dynamic range

Inputs

ANTENNA IN Antenna or CATV input, 75 ohms

1.0 Vp-p 75 ohms, negative sync, RCA jack x 2 VIDEO IN (AV1,2) AUDIO IN (AV1,2) -6 dBm more than 47 kohms, RCA jack (L, R) x 2 S-VIDEO IN (Y) 1.0 Vp-p 75 ohms, negative sync, Mini DIN 4-pin x 1

(C) 0.286 Vp-p 75 ohms

DV IN 4 pin (i.LINK/IEEE 1394 standard)

Technical Specifications (Continued)

Outputs

1 Vp-p 75 Ω , sync negative, RCA jack x 1 VIDEO OUT S-VIDEO OUT (Y) 1.0 V (p-p), 75 Ω, negative sync, Mini DIN 4-pin x 1 (C) 0.286 V (p-p) 75 Ω COMPONENT VIDEO OUT (Y) 1.0 V (p-p), 75 Ω , negative sync, RCA jack x 1 (PROGRESSIVE SCAN) (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 (optical audio) Optical connector x 1 1.1 Vrms (1 kHz, -6 dB), 600 Ω, RCA jack (L, R) x 2 Audio output (analog audio) **RF OUT** Channel 3 or 4 (Switchable)

Accessory:

Video cable	Audio cable
RF 75-ohm Coaxial Cable	Remote control1
Batteries	Blank DVD-RW1

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Limited Warranty

Who Provides the Limited Warranty

During the warranty period, the GoVideo Warranty Administrator will honor service for 90 days labor, 1 year parts from the original date of consumer purchase. See below for Commercial, Industrial or Educational use coverage. Remote controls are warrantied for 90 days from the date of purchase.

Who is Protected

This warranty protects the original consumer owner of this GoVideo product.

What is Covered and How Long

This warranty covers internal operating parts and service/labor to repair or replace covered parts in this GoVideo product for 90 days labor, 1 year parts, from the date of purchase, defined as follows: (1) Original Consumer Retail Purchase; (2) First Rental Purchase Agreement; or (3) First Lease Purchase Agreement (the "Warranty Period"). Labor and replacement parts supplied during the Warranty Period are covered only for the remaining portion of the original Warranty Period. The GoVideo Warranty Administrator shall have no liability for service under this warranty if non-OEM (Original Equipment Manufacturer) replacement parts are used in the repair of your GoVideo product.

What the Owner Must Do If Service is Required

Please contact our customer service department at 1-800-736-7679 to repair or replace your product, at GoVideo's option, if it proves to be defective in material or workmanship under normal use, during the warranty period listed above, effective from the date of original consumer purchase of the product. Repaired or replacement units are warrantied for the remaining period of the original warranty. Please retain dated sales receipt. Within the warranty period, the customer pays for inbound shipping charges and GoVideo pays return shipping charges.

Other Warranty Coverage

Commercial, Industrial or Educational use has the same warranty coverage as stated in this warranty.

What are the Exceptions

This warranty does not cover: (1) Normal maintenance service, such as cleaning. (2) Damage from misuse, abuse neglect or accident, natural disasters or Acts of God. (3) Cabinetry, decorative parts, A/C adapters, knobs or buttons. (4) The foreign country use of this product. (5) GoVideo product which has been electronically or mechanically modified in any way or incorporated into other products. (6) Installation and setup service adjustments. (7) Owner instruction. Your Owner's Guide provides information regarding operating instructions and user controls. For additional information, contact your authorized GoVideo dealer.

Go Video is not responsible for any shipping, handling or insurance charges.

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GOVIDEO WARRANTY ADMINISTRATOR

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