

# VCR / DVD Recorder OWNER'S MANUAL

**MODEL: LGXBR342** 





















Before connecting, operating or adjusting this product, please read this owner's manual carefully and completely.

Call us and we will guide you through your first recording, for free.

1-800-243-0000

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## **Safety Precautions**



#### CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



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



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



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

**WARNING:** TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS 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.

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

#### **CAUTION:**

This VCR/DVD Recorder employs a Laser System.

To ensure proper use of this product, please read this owner's manual carefully and retain for future reference. Should the unit require maintenance, contact an authorized service 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:

LG Electronics U.S.A., Inc.,1000 Sylvan Avenue, Englewood Cliffs, NJ.

Phone: 1-201-816-2000.

**SERIAL NUMBER:** The serial number is found on the back of this unit. 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.  |  | <br> |  |
|------------|--|------|--|
| 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.
- **4. 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 over- heating. 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 apparatus (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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| Counter Memory Function                                   | $\  \   \bigwedge$ Indicates hazards likely to cause harm to the unit itself or other material damage. |
|   | Indicates special operating features of this unit.   |
|   | Indicates tips and hints for making the task easier.   |

## **LGXBR342 Overview**

#### **Recordable Discs**



12cm/8cm, single-sided, single layer disc Approx. max. recording time (LP mode): 240 minutes (4.7GB), 80 minutes (1.46GB)



12cm/8cm, single-sided, single layer disc Approx. max. recording time (LP mode): 240 minutes (4.7GB), 80 minutes (1.46GB)

## N otes

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

## **Playable Discs**

| VIDEO                               | DVD<br>(8 cm/12 cm disc)              |
|-------------------------------------|---------------------------------------|
| COMPACT<br>COMPACT<br>DIGITAL VIDEO | Video CD (VCD)<br>(8 cm / 12 cm disc) |
| DIGITAL AUDIO                       | Audio CD<br>(8 cm/12 cm disc)         |

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

# N otes

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

#### Regional code of the VCR/DVD Recorder and DVDs

This VCR/DVD Recorder 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 VCR/DVD Recorder can play those discs. This unit 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.

## **№** otes on DVDs and Video CDs

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

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

#### **Disc-related terms**

#### Title (DVD only)

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

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

#### Chapter (DVD only)

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

#### Track (Video CD and audio CD only)

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

#### Scene

On a video CD with PBC (Playback Control), 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,

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



## LGXBR342 Overview (Continued)

## About DVD-R and DVD-RW disc

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

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

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

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

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



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

#### What are "Recording modes"?

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

#### VR mode recording

- · 3 different picture quality/recording time settings available (SP, LP, XP)
- · Not playable on regular DVD players
- · Recordings can be extensively edited

#### Video mode recording

- · 3 different picture quality/recording time settings available (SP, LP, XP)
- Playable on regular DVD players (after finalizing)
- · Limited editing features

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

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

You can find more information on disc formats and recording modes on next page.

# N ote

DVD-Video Format (Video mode) is a new format for recording on DVD-R/RW discs that was approved by the DVD Forum in 2000. You may therefore experience problems playing recordable DVD discs in some players. Symptoms include video artifacts, audio and/or video dropouts and playback suddenly stopping. Our company cannot take responsibility for problems playing discs recorded on this VCR/DVD Recorder in other players.

#### Is editing a DVD like editing a video tape?

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

#### About word 'Original' and 'Playlist'

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

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

## About DVD recording

## N otes

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

## Disc types and recording formats, modes, and settings

This recorder can play three different kinds of DVD disc: pre-recorded DVD-Video discs, DVD-RW and DVD-R discs. The disc format for DVD-R discs is always "Video format"—the same as pre-recorded DVD-Video discs. This means that once finalized, you can play a DVD-R in a regular DVD player.

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

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

## **LGXBR342 Overview (Continued)**

#### Notes for recording

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

#### Recording TV audio channels

This recorder 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 recorder. Copy-protected video includes DVD-Video discs and some satellite broadcasts. If copy-protected material is encountered during a recording, recording will pause or stop automatically and an error message will be displayed on-screen.
- Video that is 'copy-once only' can only be recorded using a DVD-RW disc in VR mode with CPRM (see below).

#### What is 'CPRM'?

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

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

#### Copyright

- Audio and video recordings you make using this recorder 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 | Functions                                      |
|-----------|----------------------------------|----------------|--|
| DVD-Video | Video format                     | n/a            | Playback only                                  |
| DVD-RW    | Video Recording format (default) | VR mode        | Playback, recording, Original/Playlist editing |
|           | Video format                     | Video mode     | Playback, limited recording, limited editing   |
| DVD-R     | Video format                     | Video mode     | Playback, limited recording, limited editing   |
| DVD+R     | Video format                     | n/a            | Playback only                                  |
| DVD+RW    | Video format                     | n/a            | Playback only                                  |

## **LGXBR342 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 VCR/DVD Recorder is a high-tech, precision device. If the optical pick-up lens and disc drive parts are dirty or worn, the picture quality will be poor. Regular inspection and maintenance are recommended after every 1,000 hours of use. (This depends on the operating environment.)

For details, please contact your nearest dealer.

#### 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 AAA batteries with • and • aligned correctly.

#### Caution

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.





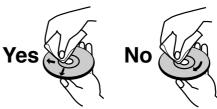
#### Storing discs

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 display

" No may appear on the TV screen during operation. This icon means the function explained in this owner's manual is not available on that specific disc.

#### About the disc symbols for instructions

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

Video DVD-R/RW with Video recording mode

VR DVD-RW with VR recording mode

**DVD** DVD-Video disc

VCD Video CDs.

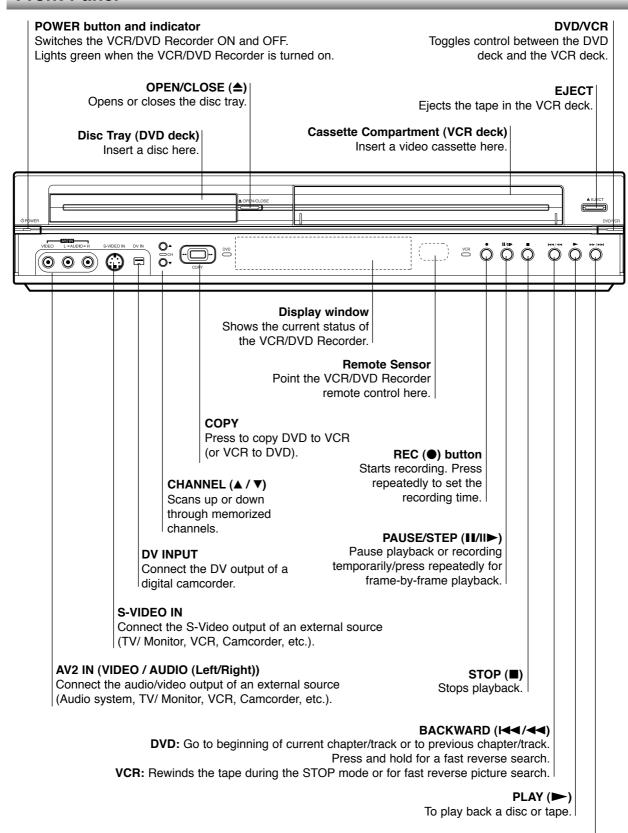
CD Audio CDs.

MP3 MP3 Discs.

JPEG Discs.

VHS VHS Tape.

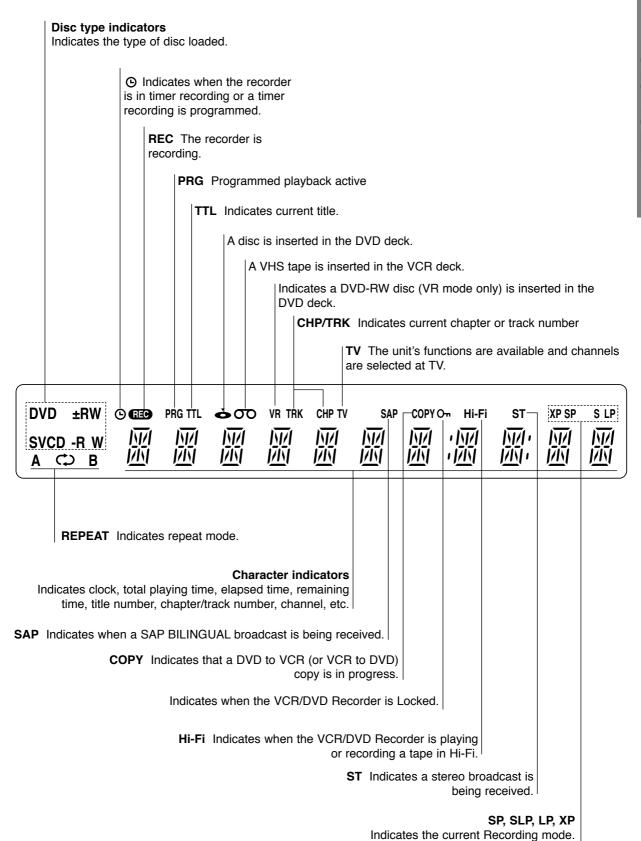
## **Front Panel**



## FORWARD (►►/►►I)

**DVD:** Go to NEXT chapter/track. Press and hold for two seconds for a fast forward search. **VCR:** Advances the tape during the STOP mode or for fast forward picture search.

## **Function Display Window**



## **Remote Control Overview**

#### **POWER**

Turns VCR/DVD Recorder ON and OFF.

#### DVD

Select the VCR/DVD Recorder's function mode to DVD.

#### VCF

Select the VCR/DVD Recorder's function mode to VCR.

#### INPU

Changes the input to use for recording (Tuner, AV1, AV2, or DV IN).

#### 0-9 numerical buttons

Selects numbered options in a menu. Selects TV's channel.

#### TV/VCR

To view channels selected by the VCR tuner or by the TV tuner.

#### BACKWARD / FORWARD (◀◀/▶▶)

DVD: Search backward or forward.
 VCR: Rewinds/Advances the tape during the STOP mode, for fast reverse/forward picture search.

#### SKIP (I◄◀ / ▶►I)

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

#### PAUSE/STEP (II)

Pause playback or recording temporarily, press again to exit pause mode. press repeatedly for frame-by-frame playback.

#### ► (PLAY)

Starts playback.

#### STOP (■)

Stops playback or recording.

#### AUDIO

Selects an audio language (DVD).

#### **SUBTITLE**

Selects a subtitle language.

#### **ANGLE**

Selects a DVD camera angle, if available.

#### **700M**

Enlarges DVD video image.

## REPEAT

Repeat chapter, track, title or all.

#### A-E

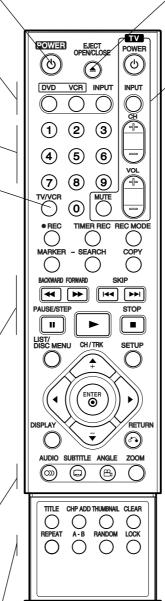
Repeats sequence between two points (A and B)

#### RANDOM

Plays tracks in random order.

#### LOCK

Locks/unlocks front panel buttons.



## N LOCK

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

#### **EJECT, OPEN/CLOSE**

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

#### **TV Control Buttons**

-POWER: Switches TV ON and OFF.
-INPUT: Selects the TV's source.
-CH +/-: Selects TV's channel.

-VOL +/-: Adjusts TV's volume.
-MUTE: Turns on or off TV sound.

#### REC (●)

Starts recording. Press repeatedly to set the recording time.

#### TIMER REC

Displays Timer Record menu.

#### **REC MODE**

Selects the recording mode:

- DVD : SP, LP, or XP. - VCR : SP or SLP.

## MARKER

Marks any point during playback.

#### **SEARCH**

Displays Marker Search menu.

#### COPY

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

#### **LIST / DISC MENU**

Accesses menu on a DVD disc. Switches between Original and Playlist editing in VR mode.

#### **SETUP**

Accesses or removes the Setup menu.

#### DISPLAY

Accesses On-Screen Display. Displays information while viewing a TV program.

#### RETURN (3)

- Removes the menu.

## ▼ ▲ ▼ (left/right/up/down)

Selects menu options.

**CH/TRK(▲/▼):** Selects a program. Adjusts manually the tape's picture onscreen.

#### **ENTER**

Confirms menu selections.

#### TITLE

Displays the disc's Title menu, if available.

#### **CHP ADD**

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

#### **THUMBNAIL**

Selects a thumbnail picture for the current title for use in the Original (Title).

#### **CLEAR**

Removes a mark on the Marker Search menu.

## **Rear Panel**

#### **ANT.IN**

Connect the VHF/UHF/CATV antenna to this terminal.

#### AV 1 IN (VIDEO IN /AUDIO IN (Left/Right))

Connect the audio/video output of an external source (Audio system, TV/Monitor, VCR, Camcorder).

## A/V OUT (VIDEO OUT/AUDIO OUT (Left/Right))

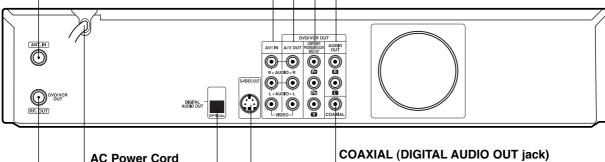
Connect to a TV with video and audio inputs.

#### COMPONENT/PROGRESSIVE SCAN VIDEO OUT (Y Pb Pr)

Connect to a TV with Y Pb Pr inputs.

#### AUDIO OUT (Left/Right)

Connect to a TV or other equipment with audio inputs.



## **AC Power Cord**

Plug into the power source.

Connect to digital (coaxial) audio equipment.

## S-VIDEO OUT

Connect to a S-Video Input on TV.

#### **OPTICAL** (Digital audio out jack)

Connect to digital (optical) audio equipment.

#### RF. OUT (DVD/VCR OUT)

Connect to a TV with RF coaxial inputs.

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

## **Connections**

## T ips

- Depending on your TV and other equipment you wish to connect, there are various ways you could connect the VCR/DVD Recorder. Use only one of the connections described below.
- Please refer to the manuals of your TV, VCR, Stereo System or other devices as necessary to make the best connections.
- For better sound reproduction, connect the recorder's AUDIO OUT jacks to the audio in jacks of your amplifier, receiver, stereo or audio/video equipment.
   See "Connecting to Optional Equipment" on page 16.

# **A**Caution

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

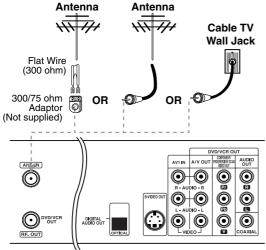
# Connecting Antenna/Cable TV to VCR/DVD Recorder

Disconnect the antenna leads from the rear of the 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 ANT.IN on your Recorder.

# $\tau_{\mathsf{ip}}$

If your antenna lead wire is a flat type antenna cable, connect it to an Antenna Adapter (300-ohm to 75-ohm) (not supplied) and slip the Adapter onto the ANT.IN jack. The Adapter does not screw on to the VCR/DVD Recorder, it just slips over the jack.



Rear of VCR/DVD Recorder

#### **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 ANT.IN jack on the VCR/DVD Recorder. Use the supplied round coaxial cable to connect between the VCR/DVD Recorder's OUT TO TV jack and the 75 ohm antenna input jack on the TV. With this connection, you can receive all midband, super band, and hyperband channels. (All cable channels.)

#### **Cable Service With Cable Box**

If a converter is required in your cable system, follow the instruction below:

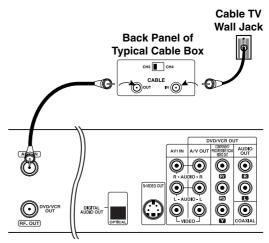
The cable hookup permits both TV and VCR/DVD Recorder operation.

#### To view or record a CATV channel

- 1 Tune the TV to the correct video input channel.
- 2 Set the VCR/DVD Recorder channel selector to the output channel of the Cable Converter box using CH (▲ / ▼) or number (0-9) of your VCR/DVD Recorder. (Example: CH3)
- 3 Select the channel to view at the Cable Converter Box.

## N ote

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



Rear of VCR/DVD Recorder

## **Connections (Continued)**

## Connecting to a TV

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

#### RF coaxial connection

Connect the RF.OUT jack on the VCR/DVD Recorder to the antenna in jack on the TV using the 75-ohm Coaxial Cable supplied (R).

# **√** ote

If you use this connection, tune the TV to the VCR/DVD Recorder's RF output channel (CH 3 or 4).

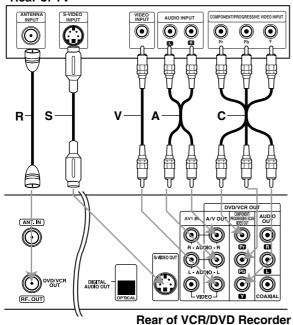
# How to set the VCR/DVD Recorder's RF output channel

When the VCR/DVD Recorder is turned off, 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 in the display window.

#### Audio/Video connection

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

#### Rear of TV



#### S-Video connection

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

#### Component Video (Color Stream®) connection

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

#### Progressive Scan (ColorStream® pro) connection

- If your television is a high-definition or "digital ready" television, you may take advantage of the VCR/DVD Recorder's progressive scan output for the highest video resolution possible.
- If your TV does not accept the Progressive Scan format, the picture will appear scrambled if you try
  Progressive Scan on the VCR/DVD Recorder.
- Connect the COMPONENT/PROGRESSIVE SCAN VIDEO OUT jacks on the VCR/DVD Recorder to the corresponding in jacks on the TV using an optional Y Pb Pr cable (C).
- Connect the Left and Right AUDIO OUT jacks from the VCR/DVD Recorder to the audio left/right in jacks on the TV using the supplied audio cables (A).

## **√** otes

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

## **Connections (Continued)**

## **Connecting to Optional Equipment**

# 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 VCR/DVD Recorder to the audio left and right in jacks on your amplifier, receiver, or stereo system, using the audio cables (A).

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

Connect one of the VCR/DVD Recorder's DIGITAL AUDIO OUT jacks (OPTICAL **O** or COAXIAL **X**) to the corresponding in jack on your amplifier. Use an optional digital (optical **O** or coaxial **X**) audio cable.

**2** You will need to activate the VCR/DVD Recorder's digital output. (See "AUDIO" 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 VCR/DVD Recorder (MPEG 2, Dolby Digital and DTS). Check the receiver manual and the logos on the front of the receiver.

# **A** Caution:

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

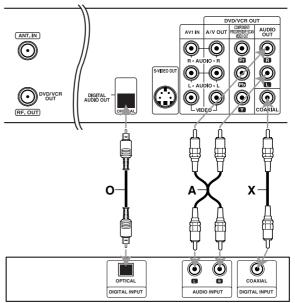
# **√** otes

- If the audio format of the digital output does not match the capabilities of your receiver, the receiver will produce a strong, distorted sound or no sound at all.
- Six Channel Digital Surround Sound via digital connection can only be obtained if your receiver is equipped with a Digital Multi-channel decoder.
- To see the audio format of the current DVD in the onscreen display, press AUDIO.

# N ote

This VCR/DVD Recorder does not perform internal (2 channel) decoding of a DTS sound track. To enjoy DTS multi channel surround, you must connect this VCR/DVD Recorder to a DTS compatible receiver via one of this VCR/DVD Recorder's digital audio outputs.

#### Rear of VCR/DVD Recorder



**Amplifier (Receiver)** 

## **Connections (Continued)**

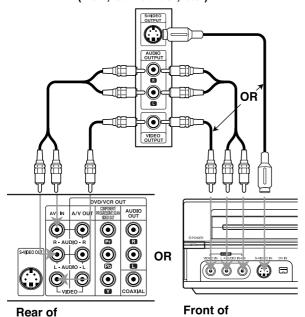
# Accessory Audio/Video (A/V) Connections to VCR/DVD Recorder

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

## **√** ote

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

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



**VCR/DVD Recorder** 

**VCR/DVD Recorder** 

# **Connecting a Digital Camcorder**

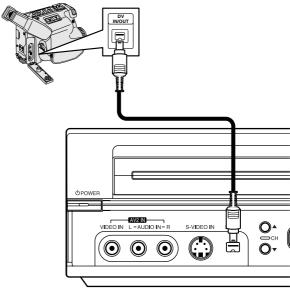
Using the front panel DV IN jack, it is possible to connect a DV digital camcorder or video deck or DVD-R/RW recorder and digitally transfer DV tapes or DVD-R/RW discs to DVD-R/RW.

Use a DV cable (not supplied) to connect the DV in/out jack of your DV Digital Camcorder to the front panel DV IN jack of this VCR/DVD Recorder.

## N ote

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 VCR/DVD Recorder

## **Before Operation**

## **Initial Settings**

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

#### To bring up and exit the Menu:

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

#### To go to the next level:

Press ▶ on the remote control.

#### To go back to the previous level:

Press ◀ on the remote control.

## **General Operation**

Press SETUP.

The Setup menu appears.

¶ 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.

F Press ► to move to the third level.

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

Some items require additional steps.

**7** Press SETUP to exit the Setup menu.

# **GENERAL**

## **Tuning Band Select**

Press SETUP.

The Setup menu appears.

¶ Use ▲ / ▼ to select the GENERAL option.

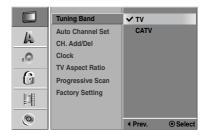
While the GENERAL option is selected, press ▶ to move to the second level.

Use ▲ / ▼ to select the Tuning Band option.

Press ► 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**

This VCR/DVD Recorder 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 VCR/DVD Recorder to the desired type of antenna or cable TV system, as shown in "Connecting Antenna/Cable TV to VCR/DVD Recorder" 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.

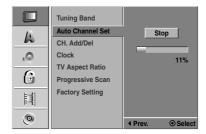
Use ▲ / ▼ to select the Auto Channel Set option.

Fress ► to move to the third level.

Start icon is highlighted.

Press ENTER to begin the channel search.

The tuner will automatically cycle through all available channels in the area and place them in the tuner's memory.



## N ote

After the Auto Channel Set proceeding is complete, make sure the Tuning Band is set appropriately (TV or CATV) on tuning band, follow steps 1~6 as shown previous (Tuning Band Select) to choose the correct Tuning Band (TV or CATV).

## To Add or Erase Channels from Memory

This feature allows you to add to or erase channels from memory manually.

Follow steps 1-3 as shown above to the previous page (Auto Channel Set).

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

Press ► to move to the third level.

Edit icon is highlighted.

Press ENTER.
The Channel Edit menu appears.



Use ▲ / ▼ or number buttons to select a channel to add or delete then press ENTER.

Add or Delete icon is highlighted.

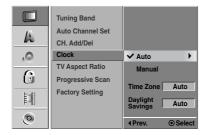
Press ENTER to confirm your setting.

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

## **Auto Clock Set**

The VCR/DVD Recorder gives you two ways to set the time and date: the Auto Clock Feature or manually. The Auto Clock Feature enables the VCR/DVD Recorder to set up the clock when the VCR/DVD Recorder is turned off.

The Clock Set feature is set to Auto at the factory. In the "Auto" setting, the VCR/DVD Recorder looks for a channel carrying XDS (Extended Data Services) information. XDS updates the clock using the Coordinated Universal Time.



Press SETUP.
The Setup menu appears.

Use ▲ / ▼ to select the GENERAL menu.

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

Use ▲ / ▼ to select the Clock option.

Fress ► to move to the third level.

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

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

7 Use ▲ / ▼ to choose your Time Zone. You can set your local Time Zone manually. When Timezone is set to Auto, the VCR/DVD Recorder will use XDS information to determine the proper setting.

Use ► to choose the Daylight Savings option.
Use ▲ / ▼ to choose Auto, On, or Off.
You can turn Daylight Savings On or Off manually. When it is set to Auto, the VCR/DVD Recorder will use XDS

information to determine the proper setting.

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

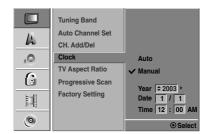
N ote

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

## **Manual Clock Set**

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

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



Enter the necessary information for date and time

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

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

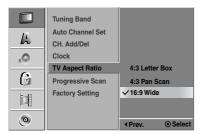
Press ENTER to confirm your setting, then press SETUP to exit the Setup menu.

## **TV Aspect Ratio**

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

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

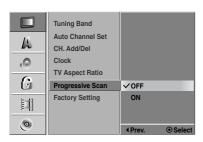
16:9 Wide: Select when a 16:9 wide TV is connected.



## **Progressive Scan**

Progressive Scan Video provides the highest quality pictures with less flickering.

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



## **A**Caution

Once the setting for Progressive Scan output is entered, an image will only be visible on a Progressive Scan compatible TV or monitor. If you set Progressive Scan to ON in error, you must reset the VCR/DVD Recorder. First, remove the disc in the VCR/DVD Recorder. 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.

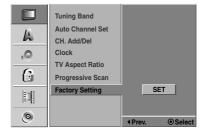
## **Factory Setting**

If you wish, you can reset the VCR/DVD Recorder to its original factory settings. Select "SET" then press ENTER.

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



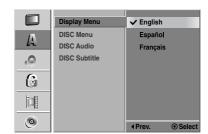
Some options cannot be reset. (Movie Rating, Password and Country Code)



## **LANGUAGE**

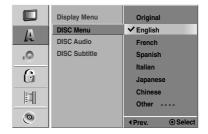
## **Display Menu**

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



## Disc Language

Select a language for the disc's Menu, Audio, and Subtitle. Original: The original language set for the disc is selected. Other: To select another language, select Other option then press ENTER. Use the numbered buttons to key-in the corresponding 4-digit number according to the language code list on page 53. If you enter the wrong number, press ◀ repeatedly to delete one by one and correct it.





## **AUDIO**

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

## **Dolby Digital**

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

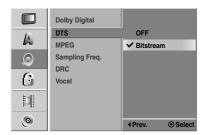
**Bitstream:** Select when connected to a Dolby Digital decoder (or an amplifier or other equipment with a Dolby Digital decoder).



## **DTS**

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

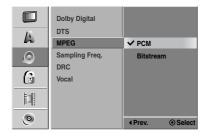
**Bitstream:** Select when connected to a DTS decoder (or an amplifier or other equipment with a DTS decoder).



#### **MPEG**

**PCM:** Select when connected to a 2-channel digital stereo amplifier. The VCR/DVD Recorder's digital audio outputs sounds in the PCM 2ch format when you play a DVD video disc recorded on the MPEG1, or MPEG2 recording system.

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



#### Sampling Freq. (Frequency)

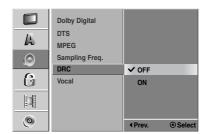
If your receiver or amplifier is NOT capable of handling 96 kHz signals, select 48 kHz. When this choice is made, this VCR/DVD Recorder will automatically convert any 96 kHz signals to 48 kHz so your system can decode them.

If your receiver or amplifier is capable of handling 96 kHz signals, select 96 kHz. When this choice is made, this unit will pass each type of signal through without any further processing.



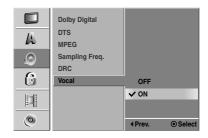
## **DRC** (Dynamic Range Control)

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



#### Vocal

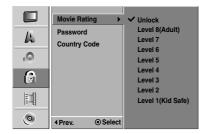
Set Vocal to ON only when a multi-channel karaoke DVD is playing. The karaoke channels on the disc will mix into normal stereo sound.



## **LOCK (Parental Control)**

## **Movie Rating**

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



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 Movie Rating option.

Fress ► to move to the third level.

When you have not entered a password yet.
Enter a 4-digit password using the numbered buttons to create a personal 4-digit security password.
Enter the 4-digit password again to confirm.
When you have already entered a password;
Enter a 4-digit password using the numbered buttons to confirm the personal 4-digit security password.

# $T_{ip}$

If you enter the wrong number, press ◀ repeatedly to delete password numbers one by one then correct it.

Select a rating from 1 to 8 using the ▲ / ▼ buttons. One (1) has the least playback restrictions. Eight (8) has the most playback restrictions. Unlock: If you select Unlock, Parental Control is not active. The disc will play in full.

Level 1 to 8: Some discs contain scenes not suitable for children. If you set a rating for the recorder, all disc scenes with the same rating or lower will be played. Higher rated scenes will not be played unless an alternative scene is available on the disc. The alternative must have the same rating or a lower one. If no suitable alternative is found, playback will stop. You must enter the 4-digit password or change the rating level in order to play the disc.

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

#### **Set Password**

Changing the 4-digit code

**1** Follow steps 1-3 as shown above to the left (Movie Rating).

¶ Use ▲ / ▼ to select the Password option.

Press ► to move to the third level.

Follow step 6 as shown above to the left (Movie Rating).

While "Change" is selected, press ENTER.

If you select "Delete" then press ENTER. The password is deleted.

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

Tenter the 4-digit password again.

# $\tau$ <sub>ip</sub>

If you enter the wrong number, press ◀ repeatedly to delete password numbers one by one then correct it.

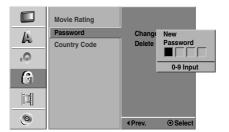
#### If you forget your 4-digit code

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

- 1 Press SETUP to display the Setup menu.
- 2 Use the Number buttons to enter the 5-digit number "21019".

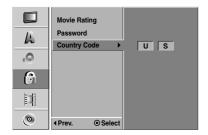
The message appears on the TV screen.

3 Select "Yes" then press ENTER. The 4-digit password is cleared. Enter a new code as shown above.



## **Country Code**

Enter the code of a country/area whose standards were used to rate the DVD video disc, referring to the list (See "Country Code List", page 54.).



#### 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.

Fress ► to move to the third level.

When you have not entered a password yet.
Enter a 4-digit password using the numbered buttons to create a personal 4-digit security password.
Enter the 4-digit password again.

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

# T ip

If you enter the wrong number, press ◀ repeatedly to delete password numbers one by one then correct it.

Select the first character using the ▲ / ▼ buttons.

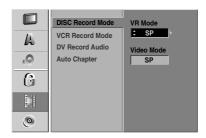
Shift the cursor using ▶ buttons and select the second character using ▲ / ▼ buttons.

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

## **RECORD**

## **DISC Record Mode**

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



Press SETUP.

The Setup menu appears.

¶ 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 Set option.

Press ► to move to the third level.

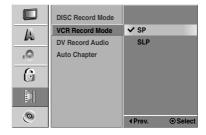
Use ◀ /▶ to select the VR Mode or Video Mode.

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

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

## **VCR Record Mode**

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



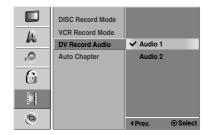
## **DV Record Audio**

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

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

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

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



## **Auto Chapter**

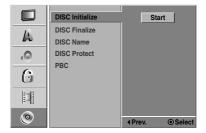
During recording (Video mode only), chapter markers are added automatically at fixed intervals. You can set this interval to 3 minutes, 5 minutes or 10 minutes. To turn off automatic chapter marking, select "Not Use".



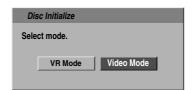
## **DISC**

#### **DISC Initialize**

- If you load a blank DVD-R disc, it will always be initialized in Video mode, which allows the disc to be played in most standard DVD players.
- If you load a blank DVD-RW disc, you will be prompted to initialize the disc in Video mode (for maximum compatibility) or VR mode (to enable advanced editing features).
- If you load a DVD-RW that has already been used, you can change between Video mode and VR mode by erasing the disc using the DISC Initialize feature.



- 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.
  Start icon is highlighted.
- Press ENTER.
  Disc Initialize menu appears.



- Juse ◄ / ► to select a desired DISC Initialize Mode (VR Mode or Video Mode) then press ENTER.

It takes a few moments to initialize the disc.

Press ENTER.

**A**Caution

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

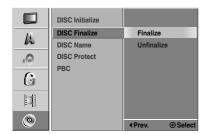
## **DISC Finalize**

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

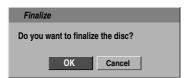
Finalizing a Video mode disc creates a menu screen for navigating the disc. This is accessed by pressing DISC MENU or TITLE.



Once you have finalized a DVD-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 on page 24 (DISC Initialize).
- ¶ Use ▲ / ▼ to select the DISC Finalize option.
- Press ► to move to the third level. Finalize is highlighted.
- Press ENTER.
  Finalize menu appears.



**5** Use ◀ / ▶ to select OK then press ENTER. The VCR/DVD Recorder starts finalizing the disc.

## N ote

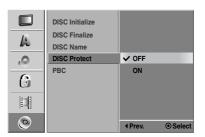
Finalization can take up to 3-4 minutes depending on the type of disc, how much is recorded on the disc, and the number of titles on the disc.

# **T**ips

- 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 disc.

## **DISC Protect**

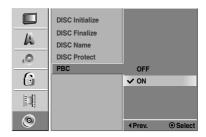
When recording in VR mode, set to ON to prevent accidental recording, editing or erasing of the disc loaded. If you need to unlock the disc to make edits, select OFF.



## **PBC**

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

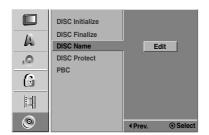
- ON: Video CDs are played according to the PBC, if available.
- OFF: Video CDs are played the same way as Audio CDs.



## **DISC Name**

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

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



- Follow steps 1-3 as shown DISC Initialize on page 24.
- ¶ Use ▲ / ▼ to select the DISC Name option.
- Press ► to move to the third level.

  Edit icon is highlighted.
- Press ENTER.
  Keyboard menu appears.



- 5 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:
- SKIP (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** (**II**), **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 set the name and return to the DISC menu.
- **7** Press SETUP to exit the menu.

# General Explanation of On-Screen Display

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

## **Displaying Information on-screen**

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

## On-screen display operation

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

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

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

# **√** 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.

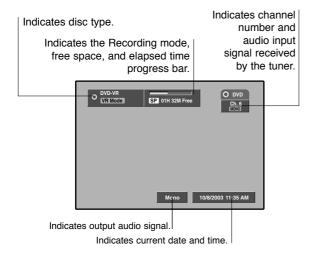
#### **Temporary Feedback Icons**

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

## **Displaying OSD While Watching TV**

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 number or CH/TRK ( $\triangle$  /  $\blacktriangledown$ ) buttons on the remote control, or the 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 Channel**

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.

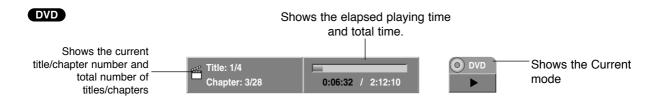
Press AUDIO repeatedly to change the TV audio, according to Broadcast audio signal as shown below.

- 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

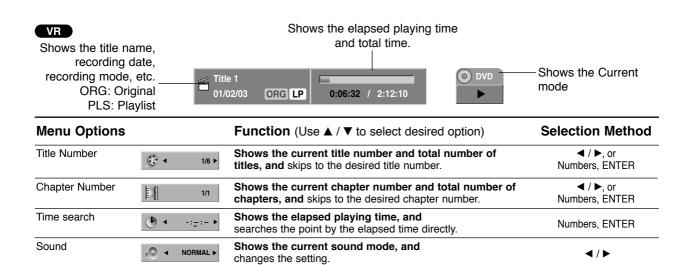
The current audio channel is displayed on-screen.

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

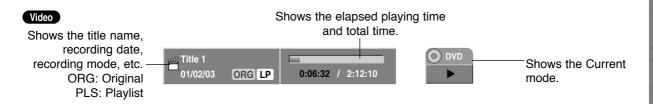
## **OSD Menu Options by Media Type**



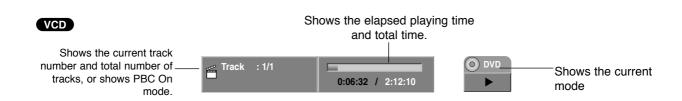
| Menu Options                                       |                     | Function (Use ▲ / ▼ to select desired option)  | <b>Selection Method</b>  |
|--|---------------------|--|--------------------------|
| Title Number                                       | 1/6 ▶               | Shows the current title number and total number of titles, and skips to the desired title number.          | √ / ►, or Numbers, ENTER |
| Chapter Number                                     | 4/26 ▶              | Shows the current chapter number and total number of chapters, and skips to the desired chapter number.    | √ / ▶, or Numbers, ENTER |
| Time search  | -:=:-               | Shows the elapsed playing time, and searches the point by the elapsed time directly.                       | Numbers, ENTER           |
| Audio language<br>and Digital Audio<br>Output mode | □□ 5.1CH ► 1. ENG ► | Shows the current audio soundtrack language, encoding method, and channel number, and changes the setting. | <b>√</b> / <b>▶</b>      |
| Subtitle language                                  | □ OFF ►             | Shows the current subtitles language, and changes the setting.   | <b>◄</b> /▶              |
| Angle  | 1/3 ▶               | Shows the current angle number and total number of angles, and changes the angle number.                   | <b>∢</b> /▶              |
| Sound  | ● NORMAL ►          | Shows the current sound mode, and changes the setting.   | <b>√</b> /▶              |



# **OSD Menu Options by Media Type (Continued)**



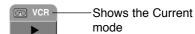
| Menu Options   |               |       | Function (Use ▲ / ▼ to select desired option)   | Selection Method         |
|----------------|---------------|-------|---|--------------------------|
| Title Number   |               | 1/6 ▶ | Shows the current title number and total number of titles, and skips to the desired title number.       | √ / ►, or Numbers, ENTER |
| Chapter Number |               | 1/1   | Shows the current chapter number and total number of chapters, and skips to the desired chapter number. | √ / ►, or Numbers, ENTER |
| Time search    | ·: <u>-</u> : | :-    | Shows the elapsed playing time, and searches the point by the elapsed time directly.                    | Numbers, ENTER           |
| Sound          | ● NORM        | AL ►  | Shows the current sound mode, and changes the setting.  | <b>4</b> /▶              |



| Menu Options  |            | Function (Use ▲ / ▼ to select desired option)   | Selection Method |
|---------------|------------|---|------------------|
| Track Number  | 1/4 ▶      | Shows the current track number and total number of tracks or PBC On mode, and skip to the desired track number. |                  |
| Time          | 0:10:30    | Shows the elapsed playing time (Display only).  | -                |
| Audio Channel | STEREO ▶   | Shows the current audio channel, and changes the audio channel.   | <b>∢</b> /▶      |
| Sound         | ● NORMAL ► | Shows the current sound mode, and changes the setting.  | <b>◄/</b> ▶      |

#### VHS

Shows playing speed, recording tape information and the elapsed playing 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. | <b>√</b> /▶      |

## **Operation with DVD and Video CD**

## Playing a DVD or Video CD

# **T** Playback Setup

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

# Press OPEN/CLOSE to open the disc tray.

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

Press OPEN/CLOSE to close the tray.
READING appears on the display window, and playback starts automatically. If playback does not start, press PLAY.

In some cases, the disc menu might appear instead.

# $\tau_{ip}$

#### If a menu screen is displayed

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

#### DVD

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

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

#### VCD

- Use the number buttons to select the track you want to view.
  - Press RETURN to return to the menu screen.
- Menu 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.

# **√** otes

- If Parental Control is set and the disc is not within the Movie Rating settings (not authorized), the 4-digit code must be entered and/or the disc must be authorized (see "Movie Rating", on page 22).
- DVDs may have a Region Code.
   Your VCR/DVD Recorder will not play discs that have
   a region code different from your VCR/DVD Recorder.
   The region code for this VCR/DVD Recorder is 1
   (one).

## N ote

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

## Moving to another TITLEs



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

Press DISPLAY twice and use ▲ / ▼ to select the title icon. Then, press the appropriate numbered button (0-9) or ◀ / ▶ to select a title number and press ENTER to confirm.

## Moving to another CHAPTER/TRACKs



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

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

## N ote

On a Video CD with PBC, you must set PBC to OFF in the DISC menu to use this function. See page 25.

#### **Slow Motion**



- Press BACKWARD (◄◄) or FORWARD (►►) during pause mode.
   The VCR/DVD Recorder will enter SLOW mode.
- 2 Use the BACKWARD (◄◄) or FORWARD (▶▶) to select the required 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.

## Operation with DVD and Video CD (Continued)

## Playing a DVD or Video CD (continued)

## Still Picture and Frame-by-Frame Playback

## DVD Video VR VCD

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

## N ote

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

## Search DVD Video VR VCD

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

## **√** ote

When you press BACKWARD or FORWARD during Search mode to go to normal speed, search mode is canceled.

## Random Karaoke DVD VCD

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

# $T_{\mathsf{ip}}$

By pressing SKIP (►►I) during Random playback, the VCR/DVD Recorder selects another title (track) and resumes Random playback.

## **√** ote

- 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 menu to use the Random function. See page 25.

## Repeat DVD Video VR VCD



#### **DVD Video Discs - Repeat Chapter/Title/Off**

- 1 To repeat the currently playing chapter, press REPEAT.
  - The REPEAT CHAPTER appears on the TV screen.
- 2 To repeat the title currently playing, press REPEAT a second time.
  - The REPEAT TITLE appears on the TV screen.
- **3** To exit Repeat mode, press REPEAT a third time. The REPEAT OFF icon appears on the TV screen.

#### Video CDs - Repeat Track/All/Off

- 1 To repeat the track currently playing, press REPEAT. The REPEAT TRACK icon appears on the TV screen.
- **2** To repeat the disc currently playing, press REPEAT a second time.
  - The REPEAT ALL icon appears on the TV screen.
- **3** To exit Repeat mode, press REPEAT a third time. The REPEAT OFF icon appears on the TV screen.

## N ote

On a Video CD with PBC, you must set PBC to OFF in the DISC menu to use the Repeat function. See page 25.

## Repeat A-B

# DVD Video VR VCD 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.

## **Operation with DVD and Video CD (Continued)**

## Playing a DVD or Video CD (Continued)

## Time Search DVD Video VR









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

1 Press DISPLAY twice during playback. The on-screen display appears on the TV screen.

The Time Search box shows the elapsed playing time of the current disc

- 2 Within 7 seconds, use ▲ / ▼ to select the Time Search icon in the on-screen display. The "-:--" appears in the Time Search box.
- 3 Within 7 seconds, use the number buttons to enter the required start time. Enter hours, minutes, and seconds from left to right in the box.

You can not enter an invalid time.

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

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 enlarge the video image and to move through the enlarged image.

1 Press ZOOM during playback or still playback to activate the Zoom function.

The square frame will be displayed in the right bottom of the picture. If no button is pressed for more than 5 seconds, the square frame will disappear.

Each press of the ZOOM button changes the TV screen in the sequence shown below.

 $X1(normal size) \rightarrow X2 size \rightarrow X4 size \rightarrow X1(normal size)$ 

- 2 Use the ◀ ▶ ▲ ▼ buttons to move through the zoomed picture.
- 3 To resume normal playback, press CLEAR or press ZOOM repeatedly until the normal picture appears.



The zoom function may not work for some DVDs.

#### **Marker Search**











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

To enter a mark, follow these steps.

- 1 During disc playback, press MARKER when playback reaches the spot that you want to memorize.
  - The Marker icon will appear on the TV screen briefly.
- 2 Repeat step 1 to enter up to six Marker points on a

#### To Recall a Marked Scene

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



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

#### To clear a Marked Scene

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

## Operation with DVD and Video CD (Continued)

## Playing a DVD or Video CD (Continued)

## Camera Angle DVD (1/3)

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

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



The 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.

## Changing the Audio Channel VCD



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





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

- 1 Press DISPLAY twice then use ▲ / ▼ to select the sound icon. Then, use ◀ / ► to select "3D SUR.".
- 2 To turn off the 3D Surround effect, select "NORMAL".

## 

Press SUBTITLE then press ◀ / ▶ repeatedly during playback to see the different subtitle languages.

## Finding Locations on a Disc VCD

You can directly access any point on a video CD using this function within 95%. Use this function only while a video CD is playing. Playback jumps to the point specified.

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



- 2 Use ◀ / ▶ to find 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.

## Last Condition Memory DVD

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

# **√** otes

- Settings are stored in memory for use any time.
- This VCR/DVD Recorder does not memorize settings of a disc if you switch off the VCR/DVD Recorder before commencing to play it.
- The Last Condition Memory function may not work on some DVDs.

## **Audio CD and MP3 Operation**

## Playing an Audio CD or MP3 Disc

## CD MP3

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

#### Insert a disc and close the tray.

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





**AUDIO CD Menu** 

MP3 CD Menu

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

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

# T ips

displayed.

- On the MP3 CD menu, you can display the folders on the disc. Use ▲ ▼ ◀ ▶ to select the "Folder" icon on the MP3 CD menu then press ENTER twice.
   Also, you can display only tracks in the folders.
   Use ▲ ▼ ◀ ▶ to select a folder then press ENTER.
- If audio tracks and MP3 files are mixed on the disc, you can switch between the AUDIO CD menu and MP3 CD menu by pressing TITLE repeatedly in Stop mode.
- If you select a track and press DISPLAY, the file informations are displayed.
   If you select a folder and press DISPLAY, the number of subfolders and number of MP3 files in the folder are
- If you are in a file list and want to return to the Folder list, use the ▲/▼ to highlight □ and press ENTER to return to the previous menu screen.
- You can view TV channel or video input source by pressing RETURN. If you want to return to the MP3 or AUDIO CD menu, press DISC MENU/LIST.

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

## **Notes on MP3 Recordings**

#### **About MP3**

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

# MP3 Disc compatibility with this recorder is limited as follows:

- CD-R/RW physical format should be "ISO 9660" and "JOLIET".
- If you record MP3 files using the software which cannot create a FILE SYSTEM, for example "Direct-CD" etc., it is impossible to playback MP3 files. We recommend that you use "Easy-CD Creator", which creates an ISO9660 or JOLIET file system.
- 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 1999.

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

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

## **Audio CD and MP3 Operation (Continued)**

#### Pause CD MP3

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

## Moving to Another Track CD MP3

- Press SKIP I

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

## Repeat CD MP3

Press REPEAT to select a desired repeat mode.

- · Audio CD
  - TRACK: Repeats the current track.
  - ALL: Repeats all the tracks on a disc.
  - OFF: Does not play repeatedly (no display).
- · MP3 Disc
  - TRACK: Repeats the current track.
  - FOLDER: Repeats all the tracks on a folder of a disc.
  - OFF: Does not play repeatedly (no display).

#### Random CD MP3

1 Press RANDOM during playback or when playback has stopped.

The VCR/DVD Recorder automatically begins Random Playback and RANDOM appears on the left side of menu screen.

2 To return to normal playback, press RANDOM again, then RANDOM disappears from the menu screen.

#### Search CD

- 1 Press BACKWARD (◄◄) or FORWARD (►►) during playback.
  - The recorder will now go into SEARCH mode.
- 2 Press BACKWARD or FORWARD to select the required speed: ◀◀X2, ◀◀X4, ◀◀X8 (backward) or ▶▶X2, ▶▶X4, ▶▶X8 (forward). Search speed and direction are indicated on the menu
  - 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 title:

- 1 Press A-B at your chosen start point. Repeat icon and "A-" appears on the menu screen.
- 2 Press A-B again at your chosen end point. The Repeat icon and "A - B" appears on the left side of 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.

## Programmed Playback with Audio CD and MP3

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

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

Use ▲ ▼ to select a track or fold on the List then press ENTER.

The options appears on the left side of the menu.



- Press and hold ▼ for fast to move to the next track or folder.
- Press and hold ▲ for fast to move to the previous track or folder.
- Use ▲ ▼ to highlight the "Program Add" icon then press ENTER.

The selected track is added to the Program List.

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

 $\tau_{\mathsf{ip}}$ 

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

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

The all marked tracks are added to the Program List.

- Use the CLEAR button to select all tracks, or cancel all marked tracks.
- If you select folder for Programmed Playback, all tracks in the folder are added to the program list.
- Use ▶ to move the tracks to the Program list. The programmed track you selected last is highlighted on the program list.
- Use ▲ / ▼ to select the track you want to start playing.
- Press PLAY (►) to start.

Playback begins in the order in which you programmed the tracks and "PRG" indicator appears on the display window.

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





## To resume normal playback from programmed playback, select a track on the List then press PLAY (►).

"PRG" indicator disappears from the display window.

## **Repeat Programmed Tracks**

Press REPEAT to select a desired Repeat mode.

- · TRACK: Repeats the current track.
- · ALL : Repeats all the tracks on a disc.
- · OFF: Does not play repeatedly (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 appears on the left side of the menu.
- 2 Select the Delete icon then press ENTER. The selected track is deleted on the Program List.
- 3 Repeat steps 1-2 to delete additional tracks on the Program List.

## Erasing the multi tracks on the **Program List**

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

The all marked tracks are deleted from the Program List.

#### Changing the order of 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 stages 1 3.



Use MARKER to move multiple tracks.

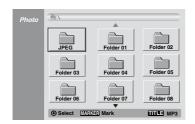


## **Photo Disc Operation**

## Viewing a Photo Disc IPEG

This VCR/DVD Recorder can play discs with JPEG files. Before playing JPEG files, read the notes on JPEG files on right.

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



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

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



N ote

If the icon displays in a JPEG file list, it means you cannot see those JPEG files.

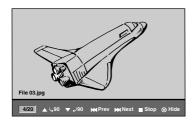
Use ▲ ▼ ◀ ► to select a file, then press ENTER.

The options appear on the left side of the menu.

 $T_{\mathsf{ip}}$ 

If you are in a file list and want to return to the Folder list, use the ▲ / ▼ buttons on the remote to highlight the i... icon and press ENTER.

Use ▲ / ▼ to select the Full Screen option then press ENTER.



To stop viewing at any other time, press STOP or RETURN (ඌ).

The Photo menu appears.

### Selecting other Files

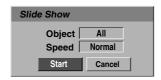
While viewing a picture, press SKIP ( $\mathbb{I} - \mathbb{I} = \mathbb{I}$ ) or  $\mathbb{I} = \mathbb{I}$  once to advance to the next file or return to the previous file.

### To rotate the picture

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

### To view Slide Show

- 1. Select Slide Show option on the menu.
- Press ENTER. Slide Show menu appears.



Use ▲ ▼ ◀ ► to set the options.
 Object: All files or Selected file.
 Speed: Selects Slide Show speed (Slow, Normal, Fast).

- Select START icon then press ENTER to start slide show.
- Press STOP to stop the Slide Show and return to the Photo menu.

# N ote

Use the MARKER button to select multiple files.

### **Notes on JPEG Files**

- Depending on the size and number of the JPEG files, it could take a long time for the DVD player 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 on the disc are free but the total number of files and folders on the folder should be less than 1999.
- Some discs may be incompatible due to different recording format or condition of the disc.
- When you are using software such as "Easy CD Creator" to burn jpeg files on a CD-R, ensure that all the selected files have the ".jpg" extension before copying into the CD layout.
- If the files have ".jpe" or ".jpeg" extensions, please rename them as ".jpg" files.
- File names without ".jpg" extension will not be able to be read by this VCR/DVD Recorder, even though the files are shown as JPEG image files in Windows Explorer
- On CDs with mixed content (audio tracks, MP3 files and JPEG files), you can select among the AUDIO CD menu, MP3 CD menu, and Photo CD menu by pressing TITLE repeatedly in Stop mode.

## **VCR Mode Tape Playback**

## **Preparation**

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

## Normal Playback **VHS**



#### Insert a prerecorded video cassette.

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

- Make sure that the TIMER indicator in the display window is not lighted. If it is, press POWER once.
- If a tape without a safety tab is inserted, the VCR/DVD Recorder will start playback automatically.



### Press PLAY (►) once.

PLAY icon appears on the TV screen.

- It is not necessary to select the tape speed for playback. It will be automatically selected by the VCR/DVD Recorder.
- In 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 VCR/DVD Recorder will automatically stop, rewind and eject the tape, and turn itself off.

### Tracking Control VHS

#### **Auto Tracking**

The automatic tracking function adjusts the picture to remove snow or streaks.

The AUTO TRACKING function works in the following cases:

- A tape is played back for the first time.
- Tape speed (SP, LP, SLP) changes.
- Streaks or snow appear because of scratches on the tape.

#### **Manual Tracking**

If noise appears on the screen during playback, press either CH/TRK ( $\blacktriangle/\blacktriangledown$ ) on the remote control or CH ( $\blacktriangle/\blacktriangledown$ ) on the front panel until the noise on the screen is reduced.

- In case of vertical jitter, adjust these controls very carefully.
- Tracking is automatically reset to normal when the tape is ejected or the power cord is unplugged for more than 3 seconds.

# Special Effect Playback VHS



### Special effects playback notes

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

#### Search

This function lets you visually search forward and backward for a desired scene on your tape.

- 1 Press BACKWARD (◄◄) or FORWARD (►►) during playback.
  - The VCR/DVD Recorder will be activated in the SFARCH mode.
  - If the VCR/DVD Recorder is left in the SEARCH mode for more than 3 minutes, the VCR/DVD Recorder will automatically enter the PLAY mode, to protect the tape and video heads.
- 2 To return to playback, press PLAY (►).

### Still Picture and Frame-by-Frame Playback

- 1 Press PAUSE/STEP (II) during playback.
  - A still picture appears on the TV screen.
  - If a still picture vibrates vertically, stabilize it by using CH/TRK (▲/▼) on the remote control.
     If the VCR/DVD Recorder is left in the STILL mode for
  - If the VCR/DVD Recorder is left in the STILL mode for more than 5 minutes, the VCR/DVD Recorder will automatically enter the 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 picture.
- **3** To return to playback, press PLAY (►).

#### **Slow Motion**

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

### **Counter Memory Function**

This is useful if there is a section of tape you want to view immediately after recording or if you want to return to the same point several times.

- 1 Begin recording or playing a tape.
- 2 Press DISPLAY repeatedly to display the real-time counter on the TV screen.
- **3** At the point you want to locate later, reset the real-time counter to 0:00:00 by pressing CLEAR.

Continue to play or record.

- 4 Press STOP when recording or playback finishes.
- 5 Press RETURN (3).

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

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### **Basic Recording**

## **Basic Recording from a TV**

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

# Switch on the VCR/DVD Recorder, select the device (VCR or DVD) for Recording and load a recordable disc or tape.

Also make sure that the TV input is set to this recorder. If you load a completely blank DVD-RW disc, Disc initialize menu will appear, to select a desired Recording Mode to initialize the disc (See page 24).

# 2 Set a recording mode as necessary by pressing REC MODE repeatedly.

DVD: SP (Standard quality), LP (Low quality), XP(High quality)

VCR: SP (Standard Play), SLP (Super Long Play)

# Use CH (▲/▼) on the front panel or CH/TRK(▲/▼) on the remote control to select the TV channel to record.

# Use AUDIO to select the audio channel to record.

The table below shows what will be recorded on the different settings for different types of broadcast. The last column (Monitor Audio) shows what you'll hear as it is recording.

 If you set the audio channel to SAP, but there is no SAP channel being 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          | L               | 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 in the display window.)

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

# Press STOP (■) to stop recording.

# N ote

- The available recording DVD title number is 99.
- If the VCR/DVD Recorder is powered off during DVD recording, the recording will not be saved.

## **Instant Timer Recording**

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

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

# Press REC (•) repeatedly to select the recording time length.

Recording starts after the first press.

DVD: Each subsequent press increases the recording time by 10 minutes (maximum 240 minutes) within free space.

VCR: Each subsequent press increases the recording time by 30 minutes (maximum 540 minutes). Please confirm the VHS tape has enough remaining time to be recorded before recording.



Instant Timer Record Menu

#### **Checking the Recording Time**

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

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

#### To Extend the Recording Time

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

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

### To Pause the Recording

- Press PAUSE/STEP (■) 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 the Instant Timer Recording, it will be canceled.
- The VCR/DVD Recorder will automatically power off when the Instant Timer Recording ends.

### To record one TV program while watching another

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

# ips (VCR mode only)

Always use PAUSE/STEP ( $\blacksquare \blacksquare$ ) 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 VCR/DVD Recorder, and press PAUSE/STEP (II) again to resume recording.

## **Basic Recording (Continued)**

### Copying from DVD to VCR

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

### N ote

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



**6** 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 "COPY" 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 (■). You must stop the Copy process manually when the DVD movie ends, or the unit may replay and record over and over again.

### Copying from VCR to DVD

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

### **√** ote

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

#### Insert a VHS Tape

Insert the VHS video tape you wish to copy into the VCR deck.

#### Insert a DVD-R or DVD-RW disc.

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

# N ote

When using a DVD-RW disc, you must initialize before copying; 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 Mode:
  - · LP (Low Quality)
  - SP (Standard Quality)
  - XP (High Quality)
- 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 "COPY" 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.

# 1

#### Press TIMER REC.

The Timer Record menu will appear.



- Media Choose a media (DVD or VCR).
- Ch. Choose a channel (2-69 or 1-125 for antenna or cable channels respectively, excluding skip channels), or one of the external inputs from which to record (AV1 or AV2).
- Date Choose a date up to 1 month in advance, or select a daily or weekly program.
- Start Time Set the recording start time.
- End Time Set the recording end time.
- Mode Choose a record mode. DVD: SP, LP, XP, or AT (Auto) VCR: SP, SLP, AT (Auto)

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

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

- ◄ / ► (left/right) Move the cursor left/right
- ▲ / ▼ (up/down) Change the setting at the current cursor position
- Press RETURN (5) to exit the Timer Record menu.
- Press ENTER after filling in all the program information.
- · Press TIMER REC to display Timer Record List.

# \_

## Press ENTER to save the program.

The Timer Record List will appear.

# Press RETURN (3) to exit the Timer Record List.



#### Be sure to load a recordable disc or tape.

# **√** ote

- · 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 VCR/DVD Recorder 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 VCR/DVD Recorder to Standby mode.
- · You must press STOP to stop the Timer Recording.
- The VCR/DVD Recorder will automatically power off when the Timer Recording ends.
- There is a short delay when a timer recording finishes to confirm the recorded program. If two timer recordings are set to record sequentially (one right after the other), the very beginning of the later program may not be recorded.

### **Checking Timer Recording Details**

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

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



### **Canceling a Timer Recording**

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

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

### **Stopping a Timer Recording in Progress**

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

· Press STOP.

### **Timer Recording Troubleshooting**

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

- · There is no disc (or tape) loaded.
- · A non-recordable disc (or tape) is loaded.
- Disc Protect is set to ON in the Disc menu (see page 25).
- · There are already 99 titles recorded on the disc.

#### You cannot enter a timer program when:

- · A recording is already underway.
- · The time you're trying to set has already passed.
- · There are already 8 timer programs set.

#### If two or more timer programs overlap:

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

### Confirmation is not possible when:

- · 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. In this case even though the Check field shows "Rec. OK", it may not be.

## **Recording from an External Input**

## **Recording from External Components**

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

Make sure that the component you want to record from is connected properly to the VCR/DVD Recorder. See page 17.

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

- · AV1: Audio/Video Input mounted on back panel
- AV2 (AV2 COMP): Audio/Video Input mounted on front panel
- · DV: DV Input mounted on front panel

### N ote

Check that the Audio In settings DV Rec Audio are as you want them. See page 24.

Load a recordable disc or tape.

Set a recording mode as necessary by pressing REC MODE repeatedly.

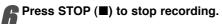
DVD: SP (Standard Quality), LP (Low Quality), XP(High Quality)

VCR: SP (Standard Play), SLP (Super Long Play)

### Fress REC (●) once.

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

- Recording continues until you press STOP (■) or the disc is full.
- To record for a fixed length of time, see Instant Timer Recording on page 39.



#### Nata

If your source is copy-protected using CopyGuard, you will not be able to record it using this recorder. See Copyright 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 this VCR/DVD Recorder. You can use the VCR/DVD Recorder's remote to control both the camcorder and the VCR/DVD Recorder. Before recording, make sure that the audio input for the DV IN jack is set up (see page 24).

### T ips

- · The source signal must be DVC-SD format.
- Some camcorders cannot be controlled using the VCR/DVD Recorder 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 VCR/DVD Recorder 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.
- Check that the DV audio input is as you require.
  You can choose between Audio 1 (original audio) and
  Audio 2 (overdubbed audio).
  - DV Input is set from the DV Rec Audio in sub-menu of the General menu. See DV Rec Audio on page 24 for more information
- Press INPUT repeatedly to select the DV input. DV appears in the display window.
- Find the place on the camcorder tape from which you want to start recording.

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

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

# Press REC (●) once to start recording.

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

# Playing Recordings on Other DVD Players

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

### Finalizing a Disc

Finalizing 'fixes' the recordings in place so that the disc can be played on a regular DVD player or computer equipped with a suitable DVD-ROM drive. Finalizing a Video mode disc creates a menu screen for navigating the disc. This is accessed by pressing DISC MENU or TITLE. To finalize a disc, refer to "DISC Finalize" on page 25.

## **Recording from an External Input (Continued)**

### What is DV?

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

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

- This recorder is only compatible with DV-format (DVC-SD) camcorders. Digital satellite tuners and Digital VHS video recorders are not compatible.
- You cannot connect more than one DV camcorder at a time to this recorder.
- You cannot control this recorder from external equipment connected via the DV IN jack (including two DVD Recorders).
- It may not always be possible to control the connected camcorder via the DV IN jack.
- Digital camcorders can usually record audio as stereo 16-bit/48kHz, or twin stereo tracks of 12-bit/32kHz.
   The VCR/DVD Recorder can only record one stereo audio track. Set DV Record Audio to Audio 1 or Audio 2 as necessary (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 the DV cable becomes disconnected.
- If DV Rec Audio is set to Audio 2, but no Audio 2 signal is present, DV 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.

#### Camcorder not connected

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

#### Too many devices connected

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

#### Check tape

There is no cassette loaded into the connected equipment.

#### Uncontrollable device

The VCR/DVD Recorder cannot control the camcorder.

#### **Updating device information**

Camcorder is updating information for DV.

#### Camera Mode

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 switch it back on.
- · Try switching the audio input.

### N ote

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

## **VR Mode: Original and Playlist Editing**

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

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

### Titles, Chapters and Parts VR

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

# **⚠** Caution

- 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 **WR**



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 Original (Chapter) or Playlist (Chapter) menu

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

Play the title (Original or Playlist).

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

A chapter marker icon appears on the TV screen.

· You can also put chapter markers during recording.

### **Changing Title or Chapter Thumbnails**



Each title and chapter displayed in the Original or Playlist menu is represented by a thumbnail picture taken from the start of that title or chapter. If you prefer, select a different still picture from within a title.

Play the title (Original or Playlist).

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

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

T ip

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

### Using the Original (Title) menu VR

The Original (Title) 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 Original (Title) 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 ( ).



### N ote

To switch between the Original (Title) and Playlist (Title) 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 Original (Title) options, select the title you want then press ENTER.

Original (Title) options appears on the left side of the Original (Title) display.

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



Play: Start playback of the selected title.

View Chap.: Shows the Original (Chapter) menu of the title (Refer to right column on this page).

Rename: Edits the title name. (page 47)

Delete: Deletes the title from the Original (Title) menu. (see page

Playlist Add: Adds the title to the Playlist. (see page 48)

Delete Part: Deletes a part of the Title. (see page 50)

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

Press RETURN (5) repeatedly to exit the Original (Title) menu.



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

### Using the Original (Chapter) menu VR



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

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

Use ▲ / ▼ to select "View Chap." from Original (Title) options then press ENTER.

Original (Chapter) menu appears on the TV screen.



To view Original (Chapter) options, select the chapter you want then press ENTER.

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

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



Play: Starts playback of the selected chapter.

View Title: Shows the Original (Title) menu (refer to left on this page)

Delete: Deletes the chapter from the Original (Chapter) menu. (page 47)

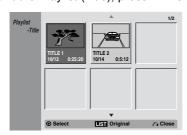
Merge: Merges two chapters into one. (page 49)

Playlist Add: Adds the chapter to the Playlist. (page 48)

Press RETURN ( ) repeatedly to exit Original (Chapter) menu.

### Using the Playlist (Title) Menu VR

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



To view Playlist (Title) options, select the title you want then press ENTER.

Playlist (Title) options appears on the left side of the Playlist (Title) menu.

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



Play: Start playback the selected title.

View Chap.: Shows the Playlist (Chapter) menu of the title (Refer to right on this page).

Rename: Edits the title name. (page 47)

Delete: Deletes the title from the Playlist (Title) menu. (page 47)

Delete Part: Deletes a part of the Title. (page 50)

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

Press RETURN (5) repeatedly to exit Playlist (Title) menu.

### Using the Playlist (Chapter) Menu VR



- Press DISC MENU/LIST repeatedly to display the Playlist (Title) menu.
- Use ▲ ▼ ◀ ▶ to choose the title you want to view Playlist (Title) menu then press ENTER. Playlist (Title) options appears on the left side of the Playlist (Title) menu.
- Use ▲ / ▼ to select 'View Chap.' from Playlist (Title) options then press ENTER.

Playlist (Chapter) menu appears on the TV screen.



To view Playlist (Chapter) options, select the chapter you want then press ENTER.

Playlist (Chapter) options appears on the left side of the Playlist (Chapter) menu.

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



Play: Starts playback of the selected chapter.

View Title: Shows the Playlist (Title) menu (Refer to left on this page).

Delete: Deletes the chapter from the Playlist (Chapter) menu (page 47).

Move: Moves a chapter of Playlist (Chapter) to a position on the Playlist (Chapter) menu (page 49).

Merge: Merges two chapters into one (page 49).

Press RETURN ( ) repeatedly to exit Playlist (Chapter) menu.

## Naming a Title **VR**

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

Press DISC MENU/LIST repeatedly to display Original (Title) or Playlist (Title) menu.

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

Options appears on the left side of the menu.





Original (Title)

Playlist (Title)

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

The Keyboard menu appears.



- Enter a name for the title. Use ▲ ▼ ◀ ▶ to select a character then press ENTER to confirm your selection. Refer step 5 as shown on page 26 (DISC Name).
- Choose OK then press ENTER to save the name and return to the previous menu screen.
- ি Press RETURN (ঠি) repeatedly to exit the menu.

# **√** ote

For discs formatted on a different DVD Recorder, you will see only a limited character set.

# Deleting an Original or Playlist

### Title/Chapter VR

When you erase a title or chapter from the Playlist menu, 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 Original (title/chapter) 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 3 seconds long.

- Press DISC MENU/LIST repeatedly to display Original (Title) or Playlist (Title) menu.

  If you want to display the Original (Chapter) or Playlist (Chapter) menu, refer to "Using Original (Chapter) menu" or "Using Playlist (Chapter) menu" on pages 45-46.
- 2 Use ▲ ▼ ◀ ► to choose a chapter or title you want to delete then press ENTER.
  Options appears on the left side of the screen.
- Select 'Delete' on the menu.

e.g., If you select "Delete" on Original (Title) 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.
- Repeat steps 2 5 to continue to delete from the menu.
- Press RETURN (5) repeatedly to exit the menu.

### Making a New Playlist VR

Use this function to add an Original title or chapter to the Playlist. When you do this, the whole title is put into the Playlist (you can delete bits you don't need later — see Deleting an Original or Playlist Title/Chapter on page 48).

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

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

Press DISC MENU/LIST repeatedly to display Original (Title) menu.

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

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

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





Original (Title)

Original (Chapter)

Use ▲ / ▼ to select 'Playlist Add' from 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 of the title are added to the Playlist.



### Adding Titles/Chapters to the Playlist

VR

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

Press DISC MENU/LIST repeatedly to display Original (Title) menu.

If you want to show the Original (Chapter) menu, refer to "Using the Original (Chapter)" on page 45.

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

The Original (Title) or Original (Chapter) options appear on the left side of the screen.





Original (Title)

**Original (Chapter)** 

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



Choose a Playlist title that is already registered to insert a title, then press ENTER.

The title appears in the updated Playlist menu.

- Repeat steps 1-4 to continue adding to the Playlist.
- Press RETURN ( ) to exit, or DISC MENU/LIST to go back to the Original (Title) menu.

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