

Instruction Manual DVD-VR329

SAMSUNG DVD RECORDER & VCR. DVD-VRX89	VIIS 4 HEAD H-FI STERED	
0792 01		



www.samsung.com AK68-01172A-00



Warning

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





This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.

This symbol indicates important instructions accompanying the product.

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

- **WARNING** : To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.
- CAUTION : This DVD Recorder & VCR USES AN INVISI-BLE LASER BEAM WHICH CAN CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE RECORDER COR-RECTLY AS INSTRUCTED.

CAUTION

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

CAUTIONS

- Caution: To prevent electric shock, match wide blade of plug to wide slot, fully insert.
- Attention: Pour éviter les chocs électriques, introduíre la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu au fond.

This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances, such as radios and televisions, use shielded cables and connectors for connections.

FCC NOTE (for U.S.A):

This equipment 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 in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment 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 equipment and receiver.
- Connect the equipment 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.

Caution: FCC regulations state that any unauthorized changes or modifications to this equipment may void the user's authority to operate it.

Note

This unit can be used only where the power supply is AC 120V, 60Hz. It cannot be used elsewhere.

- This DVD Recorder & VCR is designed and manufactured to respond to the Region Management Information.
 If the Region number of a DVD disc does not correspond to the Region number of this , the DVD Recorder & VCR cannot play the disc.
- This device is protected by U.S. Patent Nos.4,631,603;4,577,216;4,819,098;4,907,093; and 6,516,132. This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.
- This product is covered by one or more of the following U.S. patents:
 5,034,830 5,060,200 5,457,669 5,561,649
 5,691,858 5,705,762 5,987,417 6,043,912
 6,222,983 6,272,096 6,377,524 6,377,531
 6,385,587 6,389,569 6,389,570 6,408,408
 6,466,532 6,473,736 6,477,501 6,480,829
 6,556,520 6,556,521 6,556,522 6,594,208

6,674,697 6,674,957 6,721,493 6,728,474

6,741,535 09/610381 09/610695

1	DANGER	 VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.
	CAUTION	 VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
	ATTENTION	 RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
	ADVARSEL	 SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
	VARO !	 AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
	VARNING	 SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
	ADVARSEL	 SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN.
	VORSICHT	 SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
	注意	- 打开时有可见及不可见激光辐射,避免激光束照射,
	注意	- ここを開くと可視及び不可視のレーザー光が出ます。 ビームを直接見たり、触れたりしないでください。



Important Safety Instructions

Read these operating instructions carefully before using the unit. Follow all the safety instructions listed below. Keep these operating instructions handy for future reference.

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
- 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.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) 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 the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus 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 apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Handling Cautions

- Before connecting other components to this recorder, be sure to turn them all off.
- Do not move the recorder while a disc is being played, or the disc may be scratched or broken, and the recorder's internal parts may be damaged.
- Do not put a flower vase filled with water or any small metal objects on the recorder.
- Be careful not to put your hand into the disc tray.
- Do not place anything other than the disc in the disc tray.

- Exterior interference such as lightning and static electricity can affect normal operation of this recorder. If this occurs, turn the DVD Recorder & VCR off and on again with the **POWER** button, or disconnect and then reconnect the AC power cord to the AC power outlet. The recorder will operate normally.
- Be sure to remove the disc and turn off the recorder after use.
- Disconnect the AC power cord from the AC outlet when you don't intend to use the recorder for long periods of time.
- Clean the disc by wiping in a straight line from the inside to the outside of the disc.

Maintenance of Cabinet

For safety reasons, be sure to disconnect the AC power cord from the AC outlet.

- Do not use benzene, thinner, or other solvents for cleaning.
- Wipe the cabinet with a soft cloth.

Disc Handling

 Use discs with regular shapes. If an irregular disc (a disc with a special shape) is used, this DVD Recorder & VCR may be damaged.

Holding discs

 Avoid touching the surface of a disc where recording is performed.



DVD-RAM, DVD±RW and DVD±R

 Clean with an optional DVD-RAM/PD disc cleaner.
 Do not use cleaners or cloths for CDs to clean DVD-RAM/DVD±RW/DVD±R discs.



DVD-Video, CD

• Wipe off dirt or contamination on the disc with a soft cloth.

Cautions on handling discs

- Do not write on the printed side with a ball-point pen or pencil.
- Do not use record cleaning sprays or antistatic. Also, do not use volatile chemicals, such as benzene or thinner.
- Do not apply labels or stickers to discs. (Do not use discs fixed with exposed tape adhesive or leftover peeled-off stickers.)

- Do not use scratch-proof protectors or covers.
- Do not use discs printed with label printers available on the market.
- Do not load warped or cracked discs.

Disc Storage

Be careful not to harm the disc because the data on these discs is highly vulnerable to the environment.

- Do not keep under direct sunlight.
- · Keep in a cool ventilated area.
- Store vertically.
- Keep in a clean protection jacket.
- If you move your DVD Recorder & VCR suddenly from a cold place to a warm place, condensation may generate on the operating parts and lens and cause abnormal disc playback. In this case, do not connect the plug to the power outlet and wait for two hours. Then insert the disc and try to play back again. It will work properly when condensation has evaporated.

Disc Specifications

DVD-Video

- A digital versatile disc (DVD) can contain up to 135minutes of images, 8 audio languages and 32 subtitle languages. It is equipped with MPEG-2 picture compression and Dolby 3D surround, allowing you to enjoy vivid and clear theater quality images in the comfort of your own home.
- When switching from the first layer to the second layer of a double-layered DVD Video disc, there may be momentary distortion in the image and sound. This is not a malfunction of the unit.
- Once a DVD±R/DVD-RW(V) recorded is finalized, it is playable in a standard DVD player.

Audio CD

- An audio disc on which 44.1kHz PCM Audio is recorded.
- Plays CD-DA format audio CD-R and CD-RW discs. This unit may not be able to play some CD-R or CD-RW discs due to the condition of the recording.

CD-R/-RW

MP3 CD-R/-RW

- Only CD-R discs with MP3 files recorded with ISO9660 or JOLIET format can be played back
- Only MP3 files with the "mp3" or "MP3" extension can be used.
- For MP3 files recorded with a VBR(Variable Bit Rates), from 80 Kbps to 320 Kbps, the sound may cut in out.
- Playable bitrate range is from 56Kbps to 320Kbps.
- The unit can handle a maximum of 1000 files and folders.
- DVD-RAM/±RW/±R discs that contain MP3 files can be played back.

JPEG CD-R/-RW

- Only JPEG files with the ".jpg", ".JPG" extension can be used.
- The unit can handle a maximum of 1000 files and folders.
- Maximum size of progressive JPEG is 3M pixels.
- MOTION JPEG is not supported.
- DVD-RAM/±RW/±R discs that contain JPEG files can be played back.

Using CD-R/-RW

- Use a 700MB(80 minutes) CD-R/-RW disc. If possible, do not use a 800MB(90 minutes) or above disc, as the disc may not play back.
- If the CD-R/-RW disc was not recorded as a closed session, you may experience a delay in the early play-back time, and all recorded files may not play.
- Some CD-R/-RW discs may not be playable with this unit, depending on the device which was used to burn them.
 For contents recorded on CD-R/-RW media from CDs for your personal use, playability may vary depending on contents and discs.

DVD±R Disc Playback and Recording

- Once a DVD±R recorded is finalized, it is playable in a standard DVD player.
- You can record onto the available space on the disc and perform editing functions such as giving titles to discs and programs and erasing programs before finalizing.
- When programming is erased from a DVD±R, that space does not become available. Once an area on a DVD±R is recorded on, that area is no longer available for recording, whether the recording is erased or not.
- It takes about 30 seconds for the unit to complete recording management information after recording finishes.
- This product optimizes the DVD±R for each recording. Optimizing is carried out when you start recording after inserting the disc or turning on the unit. Recording onto the disc may become impossible if optimizing is carried out too many times.
- Playback may be impossible in some cases due to the condition of recording.
- This unit can play back DVD±R discs recorded and finalized with a Samsung DVD video recorder. It may not be able to play some DVD±R discs depending on the disc and the condition of the recording.

DVD-RW Disc Playback and Recording

- Recording and playback can be performed on DVD-RW discs in both Video and VR Modes.
- Once a DVD-RW recorded in VR Mode or Video mode is finalized, you cannot perform additional recording.
- Once a DVD-RW recorded in Video Mode is finalized, it becomes DVD-Video.

- In both modes, playback can be performed before and after finalization, but additional recording, deleting and editing can not be performed after finalization.
- If you want to record the disc in VR Mode and then record in V Mode, be sure to execute format. Be careful when executing Format because all the recorded data may be lost.
- For an unused disc, a message that asks whether to initialize a disc or not. If you select "Yes", disc will be formatted in VR mode.

• DVD-RW (VR mode)

- This is a format that is used for recording data on DVD-RW disc. You can record multiple titles, edit, delete, partial delete, create a playlist, etc.
- A disc that is recorded in this mode may not be played by existing DVD players.

• DVD-RW (Video mode)

- This is a format that is used for recording data on a DVD-RW or DVD-R disc. The disc can be played by an existing DVD player once it has been finalized.
- If a disc that has been recorded in Video mode by a different manufacturer's recorder but has not been finalized it cannot be played or additionally be recorded by this recorder.

DVD+RW Disc Playback and Recording

- With DVD+RW discs, there is no difference between DVD-Video format (Video mode) and DVD-Video Recording format (VR mode).
- You can make your own chapters on DVD+RWs and edit them using the Chapter Edit menu.
- Finalizing is generally unnecessary when using a DVD+RW disc.

DVD-RAM Disc Playback and Recording

- For cartridge type DVD-RAM discs, remove the cartridge and use the disc only.
- Ensure that the recording mode is set to VR mode. Otherwise, this product will not be able to play the recording.
- You cannot play a DVD-RAM in most DVD players due to compatibility issues.
- Only DVD-RAM standard Version 2.0 discs can be played in this unit.
- DVD-RAM recorded on this unit may not work with other DVD Players. To determine compatibility with these DVD-RAM discs, refer to the user's manual for the player.

COPY PROTECTION

- Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD Recorder & VCR directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.
- This product incorporates copyright protection technology that is protected by methods 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.

Protection

- Program-protection: See page 72 "Locking a Title"
- Disc-protection: See page 85 "Disc Protection"
- * DVD-RAM/DVD±RW/DVD±R discs that are incompatible with the DVD-VIDEO format cannot be played with this product.
- * For more information on DVD recording compatibility, consult your DVD-RAM/DVD±RW/DVD±R manufacturer.
- * Use of poor quality DVD-RAM/DVD±RW/DVD±R discs may cause following unexpected problems including, without limitation, recording failure, loss of recorded or edited materials or damage to the recorder.

Do not use the following discs!

- LD, CD-G, CD-I, CD-ROM and DVD-ROM discs should not be used in this product.
- [Note]
- Some commercial discs and DVD discs purchased outside your region may not be playable with this product. When these discs are played, either "No Disc" or "The disc cannot be played. Please check the regional code of the disc." will be displayed.
- If your DVD-RAM/DVD±RW/DVD±R disc is an illegal copy or is not in DVD video format, it may also not be playable.

Disc compatibility

- A 8X speed DVD+RW or above disc can be played, but can not be recorded.
- Not all brands of discs will be compatible with this unit.
- The latest firmware upgrade to improve recording & playback quality can be downloaded from our web site.
 (Download Center at www.samsung.com)
- If disc compatibility problems continue, or there is an issue upgrading your recorder, contact the Call Center at 1-800-SAMSUNG.

Contents

Getting Started

Warning
Precaution
Important Safety Instructions
Handling Cautions
Maintenance of Cabinet
Disc Handling
Disc Storage4
Disc Specifications4
General Features
Before Reading the User's Manual
How to use the DVD Recorder & VCR9
Description
Front Panel
Front Panel Display11
Rear Panel
Unpacking
Accessories
Tour of the Remote Control13

Connecting & Setting Up

Quick Overview14
Step 1 : Connecting the Antenna Cable15
Antenna + DVD Recorder & VCR + TV :
No Cable box
Antenna + Cable box + DVD Recorder & VCR + TV :
Cable box with many scrambled channels16
Antenna + DVD Recorder & VCR + Cable box + TV :
Cable box with a few scrambled channels17
Step 2 : Connecting the Video Cable
Connecting to a Video input jack
Connecting to an S-video input jack
Connecting to Component video input jacks $(Y,\!P_{\scriptscriptstyle B},\!P_{\scriptscriptstyle R})$. .20

Step 3 : Connecting the Audio Cable2	1
Connecting to your TV2	1
Connecting to a stereo amplifier with	
analog input jacks22	2
Connecting to an AV amplifier with a	
digital input jack23	3
Step 4 : Connecting External Devices	4
Connecting a VCR, Set-Top Box(STB) or	
DVD player to the AV 1 IN or S-VIDEO IN jacks 24	4
Connecting a Camcorder to the AV 2 IN jacks2	5
Connecting a Camcorder to the DV IN jack	6
Step 5 : Connecting the Power Cord27	7
Step 6 : Preparing the Remote Control	7
Setting the Remote Control	8

System Setup

On-Screen Menu Navigation
Auto Clock Set
Manual Clock Set
Channel Set
Auto Channel Memory
Channel Add/Delete
RF Output Channel
Setting Up the Language Options
Setting Up the Audio Options
Setting Up the Display(Video) Options
Setting Up the Parental Control
VCR Setting
Video Input
DVD EP Mode Time40
Automatic Chapter Creator40
Quick Recording

Playback

♦ DVD Playback	
Before Playing	42
Playing a Disc	43
Using the Disc Menu and Title Menu	44
Using the Search & Skip Functions	44
Slow Motion Play / Step Motion Play	45

About ANYKEY45
Repeat Playback46
Selecting the Subtitle & Audio Language
Changing the Camera Angle
Zooming-In
Using the Bookmarks
Using the Markers
Playing back an Audio CD (CD-DA)51
Playing back an MP3 Disc
Repeat Playback of an Audio/MP3 Disc
Play Option Mode53
To Program Tracks
Playing a Picture Disc

♦ VCR Playback

Playing the VCR	.55
Tracking	.55
Special VCR Playback Features	.56
S-VHS Playback	.56
Variable Search System	.56

Recording

DVD Recording

Before Recording
Recordable discs
Recording Formats59
Recording Mode59
Unrecordable video59
Recording the Current Channel you are watching60
Recording from External Devices61
Recording through a DV Input jack61
Making a One Touch Recording(OTR)62
Making a Timer Recording62
Editing the Scheduled Record List64
Deleting the Scheduled Record List64

♦ VCR Recording

5
6
6
7

Editing

Playing the Title List	69
Basic Editing (Title List)	71
Renaming(Labeling) a Title	71
Locking(Protecting) a Title	72
Deleting a Title	73
Deleting a Section of a Title	73
Editing a Chapter	75
Dividing a Title	77
Advanced Editing (Playlist)	78
Creating a Playlist	78
Playing Titles in the Playlist	79
Renaming a Playlist Title	79
Editing a Scene for the Playlist	80
Copying a Playlist Title to the VCR	83
Deleting a Playlist Title from the Playlist	84
Disc Manager	84
Editing the Disc Name	84
Disc Protection	85
Formatting a Disc	86
Finalizing a disc	86
Unfinalizing a disc (V/VR mode)	87
Delete All Title Lists	88
Edit Compatible	89

Reference

Troubleshooting	
$(DVD\text{-}VIDEO/DVD\text{-}RAM/DVD\text{\pm}RW/DVD\text{\pm}R)\ \dots\ .91$	
Troubleshooting (DVD)	
Troubleshooting (VCR)	
Problems and Solutions (Display error message)94	
Specifications96	

General Features

The DVD-VR329 allows you to record and play high quality digital video on DVD-RAM/DVD±RW/DVD±R discs. You can record and edit digital video on DVD-RAM/DVD±RW/DVD±R discs as if they were VCR tapes.

High quality digital audio and video recording and playback

You can record up to approximately 16-hours of video on a double side 9.4 GB DVD-RAM disc,up to 15-hours on a dual-layer 8.5GB DVD±R disc, and up to 8-hours on a 4.7 GB DVD-RAM/DVD±RW/DVD±R disc, depending on the recording mode.

Creating DVD video titles using DVD±RW/DVD±R discs

With the DVD-VR329, you can create your own DVD video titles on 4.7 GB DVD±RW/DVD±R or 8.5GB DVD±R discs.

A Variety of Recording Options

Select an appropriate recording mode between XP, SP, LP and EP to meet your recording needs. (See page 59.)

- XP mode High quality, about 1 hour
- SP mode Standard quality, about 2 hours
- LP mode Low quality, about 4 hours
- EP mode Lower quality, about 6 or 8 hours
- The dual layer DVD±Rs have approximately double the capacity of single layer DVD±Rs. (See page 42.)

Copying digital camcorder content using DV input jack

Record digital camcorder images onto DVD-RAM/DVD± RW/DVD±R discs or video tape using the DV input jack (IEEE 1394-4pin). (See page 61.)

High quality progressive scan

Progressive scanning provides high resolution and flicker free video. The 10-bit 54-MHz DAC, 2D Y/C Separating circuitry and Time Base Corrector processor technology provide you with the highest image playback and recording quality. (See page 20.)

Component progressive scan output video is available in both DVD and VCR modes.

A variety of functions with easy-to-use user interface

Integrated menu system and messaging functionality allow you to perform the desired operations easily and conveniently. With a DVD-RAM/DVD-RW(VR mode) disc, you can edit recorded images, create playlist, and edit video in specific sequence according to your needs.

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8 - English

Before Reading the User's Manual

Make sure to check the following terms before reading the user's manual.

Icons that will be used in manual

lcon	Term	Definition
DVD-WDE0	DVD	This involves a function available in DVD or DVD-R/DVD-RW(V)/+R discs that have been recorded and finalized.
DVD-RAM	RAM	This involves a function available in DVD-RAM.
DVD-RW	-RW	This involves a function available in DVD-RW.
DVD-R	-R	This involves a function available in DVD-R.
DVD+RW	+RW	This involves a function available in DVD+RW.
DVD+R	+R	This involves a function available in DVD+R.
CD	CD	This involves a function available in a data CD (CD-R or CD-RW).
JPEG	JPEG	This involves a function available in CD-R/-RW or DVD±R/±RW/ -RAM discs.
MP3	MP3	This involves a function available in CD-R/-RW or DVD±R/±RW/ -RAM discs.
!	Caution	This involves a case where a function does not operate or settings may be cancelled.
	NOTE	This involves tips or instructions on the page that help each function operate.
	One-Touch button	A function that can be operated by using only one button.
ANYKEY	ANYKEY button	A function that can be operated by using ANYKEY button.

About the use of this user's manual

- 1) Be sure to be familiar with Safety Instructions before using this product. (See pages 2~5)
- If a problem occurs, check the Troubleshooting. (See pages 91~93)

How to use the DVD Recorder & VCR

Step 1 Select the disc type

This unit can record on the following types of discs. If you want to repeatedly record on the same disc or you want to edit the disc after recording, select a rewritable DVD±RW or DVD-RAM type disc. If you want to save a recording without any changes, choose a non-rewritable DVD±R.



Step 2

Format the disc to start recording

Unlike a VCR, the recorder automatically starts formatting when an unused disc is inserted. This is required for the preparation of recording on a disc.

Using a DVD-RAM

This type of disc can be formatted in DVD-Video Recording format (VR mode). You can edit recorded images and create a playlist in a specific sequence according to your requirements.

Using a DVD±RW/+R

- When an unused DVD±RW/+R disc is first inserted, the message "Uninitialized Disc. Do you want to initialize this disc?" will be displayed.
 If you select Yes, initializing will be start. DVD-RW disc can be formatted in either DVD-Video format (Video mode) or DVD-Video Recording format (VR mode)
- With DVD+RW discs, there is no difference between DVD-Video format (Video mode) and DVD-Video Recording format (VR mode).

Using a DVD-R

Initializing disc is unnecessary and only V mode Recording is supported. You can play this type of disc on various DVD components only when they have been finalized.



 You can only use either the VR or Video mode on a DVD-RW, but not both at the same time.

 You can format a DVD-RW to V or VR mode using disc manager. It should be noted that the disc's data will be lost when changing formats.

Step 3 Recording

There are two different recording methods: Direct Recording and Timer Recording. Timer recording is classified as a Date : Once, Daily or Weekly. Recording mode : XP (high quality mode), SP (standard quality mode), LP (long recording mode), and EP (extended mode).



Step 4 Playing

You can select the title you want to play in a displayed menu and then immediately start playback.

A DVD consists of sections called titles, and sub sections called chapters.

During recording, a title is created between two points where you start and stop recording. Chapters will be created automatically when you finalize recording on DVD-R / DVD-RW discs in Video mode.

You can make your own chapters on DVD+RWs and edit them using the Chapter Edit menu.

The chapter's length (interval between chapters) varies according to the recording mode.



Editing a recorded disc

Editing on discs is easier than conventional video tapes. The recorder supports many different edit functions, possible only with DVDs.

With a simple and easy edit menu, you can operate various edit functions, such as delete, copy, rename, lock, etc., on a recorded title.

Creating a playlist (DVD-RAM/-RW in VR mode)

With this recorder, you can create a new playlist on the same disc and edit it without changing the original recording.

Step 6 Finalizing & Playing on other DVD components

To play your DVD on other DVD players, finalizing may be necessary. First, finish all editing and recording operations, then finalize the disc.

When using a DVD-RW disc in VR Mode

Although finalizing is generally unnecessary when playing the disc on a VR Mode compatible component, a finalized disc should be used for playback.

When using a DVD-RW disc in Video Mode

The disc should be finalized first to enable playback on anything other than this recorder. No more editing or recording can be made on the disc once it has been finalized.

When using a DVD±R disc

You should finalize the disc to play it on a component other than this recorder. You cannot edit or record on the disc once it has been finalized.

Description

Front Panel



- 1. DVD DECK
- 2. DVD OPEN/CLOSE BUTTON
- 3. VCR DECK
- 4. VCR EJECT BUTTON
- 5. POWER BUTTON
- 6. VIDEO INPUT JACK (AV 2 IN)
- 7. AUDIO L, R INPUT JACKS (AV 2 IN)
- 8. DV INPUT JACK

- 9. P.SCAN BUTTON
- 10. FRONT PANEL DISPLAY
- 11. DVD/VCR SELECT BUTTON
- 12. COPY BUTTON
- 13. CHANNEL ∧/∨ BUTTONS
- 14. RECORD BUTTON
- 15. PLAY/STILL, REW/SKIP, F.F/SKIP, STOP BUTTONS

Front Panel Display



- 1. DVD is activated.
- 2. DVD-RAM is activated.
- 3. DVD(±)R or DVD(±)RW is actived.
- 4. Progressive Scan mode is activated.
- 5. Record function is activated.
- 6. VCR is activated.

- 7. DVD or CD media is loaded.
- 8. The time, counter position or current deck status is indicated.
- 9. When you set a Timer recording, this indicator appears.
- 10. VHS videotape is loaded.



- 1. VIDEO INPUT JACK (AV 1 IN)
- 2. VIDEO OUT JACK (AV OUT)
- 3. AUDIO OUT JACKS (COMPONENT OUT)
- 4. S-VIDEO IN/OUT JACKS
- 5. ANT IN JACK

- 6. ANT OUT (TO TV) JACK
- 7. AUDIO INPUT JACKS (AV 1 IN)
- 8. AUDIO OUT JACKS (AV OUT)
- 9. DIGITAL AUDIO OUT JACK (OPTICAL)
- 10. DIGITAL AUDIO OUT JACK (COAXIAL)
- 11. VIDEO OUT JACKS (COMPONENT OUT)





Getting Started

Tour of the Remote Control



1. DVD Button

Press this when you use a DVD.

- 2. TV Button
- Press this to operate TV.
- 3. POWER Button
- 4. NUMBER Button
- 5. 100+ Button Press this to select channel 100 or higher.
- 6. F.ADV/SKIP Button
- 7. Playback-related Buttons
- Forward/Rewind, Search, Skip, Stop, Play/Pause 8. VOL (Volume) Button
- TV volume adjustment
- 9. MENU Button
- Press this to bring up the DVD Recorder & VCR's setup menu.
- 10. ENTER/DIRECTION Buttons (UP/DOWN or LEFT/RIGHT Buttons) This button functions as a toggle switch.
- INFO Button Press this to display current setting or disc status.
- 12. TITLE LIST/DISC MENU Button Press this to enter the TITLE LIST/Disc menu.

- 13. SUBTITLE Button Press this to switch the DVD's subtitle language.
- ANYKEY Button Press this to set the status of the disc that is being played.
- 15. REC Button Press this to make a recording on VCR, DVD-RAM/ ±RW/±R discs.
- 16. TO DVD COPY Button Press this when you copy from the VCR to the DVD.
- 17. REC SPEED Button Press this to set the desired recording time and picture quality.
- **18. VCR Button** Press this when you use a VCR.
- 19. INPUT SEL. Button Press this to select AV input signal in external input mode. (Tuner, AV input, DV input)
- 20. OPEN/CLOSE Button Press this to open and close the disc tray.
- 21. TV POWER Button
- 22. TV/VCR Button
- 23. MARKER Button Press this to bookmark or mark a position while playing a disc.
- 24. CH/TRK Button Press this to select a TV channel/Adjust tape tracking.
- 25. RETURN Button Returns to a previous menu.
- **26. AUDIO/TV MUTE Button** Press this to access various audio functions. This operates as sound mute. (TV mode)
- 27. CANCEL Button
- 28. PLAY LIST/TITLE MENU Button Press this to enter the Edit playlist/Title menu.
- 29. ANGLE Button Press this to access various camera angles on a disc (if the disc contains multiple camera angles).
- 30. ZOOM Button

Zooms in on screen.

- 31. TIMER REC Button Press this when you use Timer Recording.
- 32. TO VCR COPY Button Press this when you copy from the DVD to the VCR.
- **33. REC PAUSE Button** Press this to pause during recording.

Key Lock Function

If you do not want others to operate the DVD Recorder & VCR (for example if you have programmed a timer recording) you can set the equipment to lock out all button controls.

• Press and hold the **INFO** button on the remote control for 5 seconds.

The display will show "SAFE" when the feature is activated.

 To resume normal mode, press and hold the INFO button again for 5 seconds.
 "SAFE" will disappear and the DVD Recorder & VCR will

"SAFE" will disappear and the DVD Recorder & VCR will operate normally.

* This is a special remote control for the visually impaired, and has Braille points on the POWER(●), STOP(●) and PLAY(●) buttons.

Connecting & Setting Up

Quick Overview

A Quick overview presented in this guide will give you enough information to start using the recorder.



Quick Overview14
Step 1: Connecting the Antenna Cable
Step 2 : Connecting the Video Cable
Step 3 : Connecting the Audio Cable
Step 4 : Connecting External Devices
Step 5 : Connecting the Power Cord
Step 6 : Preparing the Remote Control

• Note to CATV system installer : This reminder is to call CATV system installer's attention to Article 820-40 of the National Electrical Code (Section 54 of Canadian Electrical Code, Part I), that 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 cable title as practical.

Step 1: Connecting the Antenna Cable

There are several ways to connect your DVD Recorder & VCR. Select the antenna connection that best suits you below.

Antenna + DVD Recorder & VCR + TV : No Cable box

You can record non-scrambled channels by selecting the channel on the DVD Recorder & VCR. Also use this method if you watch channels without cable box.



If you are using an off-air antenna that has 300ohm twin flat leads, use an external antenna connector (300-75 ohm adaptor : not supplied) to connect the antenna to the DVD Recorder & VCR.

Note



Note

If you have two separate antennas (one VHF and the other UHF), use a UHF/VHF combineradaptor (available at most electronics shops) to connect the antenna to the DVD Recorder & VCR.



Antenna + Cable box + DVD Recorder & VCR + TV : Cable box with many scrambled channels

You can record channels by selecting the channel on the cable box. You cannot record one channel while watching another channel. Be sure that the cable box is turned on.



Antenna + DVD Recorder & VCR + Cable box + TV : Cable box with a few scrambled channels

You can record non-scrambled channels by selecting the channel on the cable box. You cannot record scrambled channels that require a cable box.



Step 2 : Connecting the Video Cable

There are several ways to connect your DVD Recorder & VCR. Select one of the video connections on the following pages. You must use one of the following audio/video connections on this unit.

Connecting to a Video input jack

Connect a video(yellow) cable between the VIDEO(yellow) OUT jack on DVD Recorder & VCR and VIDEO(yellow) IN jack on the TV (or AV amplifier).



- You will enjoy regular quality images.
- Connect audio cables(white and red) between the AUDIO OUT jacks on the DVD Recorder & VCR and AUDIO IN jacks on TV(or AV amplifier).
 (See pages 21 ~ 23)

Connecting to an S-Video input jack

Connect an S-Video cable(not supplied) between the S-VIDEO OUT jack on DVD Recorder & VCR and S-VIDEO IN jack on your TV (or AV amplifier).



- You will enjoy high quality images. S-Video separates the picture element into black and white (Y) and color (C) signals to present clearer images than regular video input mode.
- Connect audio cables(white and red) between the AUDIO OUT jacks on the DVD Recorder & VCR and AUDIO IN jacks on TV(or AV amplifier).
 (See pages 21 ~ 23)

Note

S-Video and Component video output are available only if your TV supports S-Video input or Component video input, respectively. If S-Video or Component video output does not work, check the TV connections and the TV input selection settings.

Connecting to Component video input jacks (Y,PB,PR)

Connect Component video cables (not supplied) between the COMPONENT OUT (Y,PB,PR) jacks on DVD Recorder & VCR and COMPONENT IN (Y,PB,PR) jacks on your TV (or AV amplifier).



- You will enjoy high quality accurate color reproduction images. Component video separates the picture element into black and White(Y), blue(PB), red(PB) signals to present clear and clean images.
- Connect audio cables(white and red) between the Component AUDIO OUT jacks on the DVD Recorder & VCR and Component AUDIO IN jacks on TV(or AV amplifier). (See pages 21 ~ 23)
- Progressive scan
 - If the your TV supports Progressive Scan, you can enjoy higher quality video by pressing the P.SCAN button. (The component cable has to be connected.)
 - 1. With the unit in stop mode, press the P.SCAN button on the front of the DVD Recorder & VCR.
 - The message 'Press "Yes" to confirm Progressive scan mode. Otherwise press "No" will appear. Press the ◄ ► buttons to select Yes, and then press the ENTER button.



Compared to standard interlaced video, progressive scan doubles the amount of video lines fed to your TV, resulting in a more stable, flicker-free, and clear image than interlaced video. The progressive scan video output jack is used in progressive output mode. This is only available with TVs that support progressive scan.

Progressive Scan Output (480p) Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. If you experience 480p progressive scan picture problems, it is recommended that you switch the connection to the 'standard definition' output. If there are questions regarding TV set compatibility with this model, please contact our customer service center at 1-800-SAMSUNG.

Step 3 : Connecting the Audio Cable

Select one of the Audio connections on the following pages.

Connecting to your TV

This connection will use your TV's speakers.



Connecting to a stereo amplifier with analog input jacks If your stereo amplifier only has AUDIO INPUT jacks(L and R), use the AUDIO OUT jacks.



Connecting to an AV amplifier with a digital input jack

If your AV amplifier has a Dolby Digital or DTS decoder and a digital input jack, use this connection. To enjoy Dolby Digital or DTS sound, you will need to set up the audio settings. (See page 35)



Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

Step 4 : Connecting External Devices

This allows you to connect your DVD Recorder & VCR to other external devices and view or record their outputs.

Connecting a VCR, Set-Top Box(STB) or DVD player to the AV 1 IN or S-VIDEO IN jacks

Connecting a VCR or external device to AV 1 IN jacks of the DVD Recorder & VCR. You can record from connected equipment (VCR, STB or DVD).





You can also use the AV 2 IN jacks on the front panel of the DVD Recorder & VCR.

- Press the INPUT SEL. button to select the AV1 or S-Video input.
- Copy protected content cannot be recorded.
- Depending on your input connection, you must choose AV 1 (Composite) or S-video. (See page 39)

Connecting a Camcorder to the AV 2 IN jacks

You can also use the AV 2 IN jacks on the front panel of the DVD Recorder & VCR. You can record from connected equipment, such as a camcorder. When an input source is inserted into AV 2 IN while viewing TV, the input will be switched to AV 2 IN automatically.





If the AV 2 In input source is not selected automatically, press the INPUT SEL. button to select the AV 2 input.

Connecting a Camcorder to the DV IN jack

If your camcorder has a DV output jack, connect it to the DV input jack of your DVD Recorder & VCR.





If the input is not selected automatically, use INPUT SEL. button to select proper input.

Connections

Step 5 : Connecting the Power Cord

After all connections are complete, plug the power cord in the wall outlet.

"Auto" appears in the front panel display. This means that the current time is being set automatically through the antenna under connection(Auto Program). The setup may take several minutes.

When the DVD Recorder & VCR operates normally, the current time is automatically set and displayed in the front panel display.



Step 6 : Preparing the Remote Control

Install Batteries in the Remote Control

- Open the battery cover on the back of the remote control.
- Insert two AAA batteries. Make sure that the polarities (+ and -) are aligned correctly.
- Replace the battery cover.

If the remote control does not operate properly:

- Check the polarity + of the batteries (Dry-Cell)
- Check if the batteries are drained.
- Check if the remote sensor is blocked by obstacles.
- Check if there is any fluorescent lighting nearby.

Dispose of batteries according to local environmental regulations. Do not put them in the household trash.



Setting the Remote Control

You can control part of another manufacturer's TV functions with this remote control.

• Buttons that can be controlled on your TV : TV POWER, INPUT SEL., VOL +/-, CH/TRK (\wedge/\vee), TV MUTE, 0~9, 100+.

> POWER OPEN/CLOSE POWER # 🏟 🔘 (2)(3) (5) (4)6 (8) 9 (7)(10+) \bigcirc \odot (\cdot) (1) \odot TITLE LIST DISC MENU \bigcirc SAMSUNG

To determine whether your television is compatible, follow the instructions below.

- 1. Switch your television on.
- 2. Point the remote control towards the television.
- Press and hold the **TV** button and enter the two-figure code simultaneously corresponding to the brand of your television by pressing the appropriate number buttons.

Brand	Codes	Brand	Codes
SAMSUNG	01,14,15,23,31	NEWSAN	27
DAEWOO	19	NOBLEX	25
EMERSON	21	PANASONIC	12,24
GRADIENTE	30	RCA	07,29
HITACHI	10	SANYO	05,20
JVC	11	SHARP	02,16,22
LG	06,08,18	SONY	03
LOEWE	28	TELEFUNKEN	26
MAGNAVOX	04	TOSHIBA	09
MITSUBISHI	13	ZENITH	17

Result: If your television is compatible with the remote control, it will switch off.

It is now programmed to operate with the remote control.

 If several codes are indicated for your television brand, try each one in turn until you find one that works. If you replace the remote control's batteries, you must set the brand code again.

You can then control the television using the following buttons.

Button	Function	
TV POWER	Used to switch the television on and off.	
INPUT SEL.	Used to select an external source.	
VOL +/-	Used to adjust the volume of the television.	
CH/TRK (∧/∨)	Used to select the desired channel.	
TV MUTE	Used to toggle the sound on and off.	
0~9	Used to input number directly.	
100+	Used to select channels over 100.	



The various functions may be able to be controlled on all televisions. If you encounter problems, operate the television directly.

System Setup

On-Screen Menu Navigation

The on-screen menus allow you to enable or disable various functions on your DVD Recorder & VCR. Use the following buttons to open and navigate through the on-screen menus.



MENU Button

Press this button on the remote control to open the on-screen MENU. Press again to exit the on-screen MENU.

▲/▼,**◄**/**▶** Buttons 2

Press these buttons on the remote control to move the selection bar $A/\nabla, \blacktriangleleft / \triangleright$ to cycle through the menu options.

ENTER Button

3 Press this button on the remote control to confirm any new settings.

RETURN Button Δ

Press this button on the remote control to return to the previous MENU screen displayed or to exit the on-screen MENU.

On-Screen Menu Navigation29
Auto Clock Set
Manual Clock Set
Channel Set
Auto Channel Memory
Channel Add/Delete
RF Output Channel
Setting Up the Language Options
Setting Up the Audio Options
Setting Up the Display (Video) Options
Setting Up the Parental Control
VCR Setting
Video Input
DVD EP Mode Time
Automatic Chapter Creator
Quick Recording41



This menu is used to set the current time. You need to set the time to use timer recording.

Note

You must have the antenna connected to set the Auto Clock. See pages 15~17 for Antenna Connections.

- The Clock will be automatically set when you turn off the recorder.
- With the unit in Stop mode/No Disc mode, press the **MENU** button.



Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.

DVD-Record	er	Setup
O No Disc		
🛃 Timer Rec.	System	•
🔅 Setup	Clock Set	•
	Channel Set	▶
	Language	•
	Audio	•
	Video	•
	Parental Control a	•
<≎ MOVE	@'ENTER ∮RE	TURN 🖽 EXIT

3

Press the ▲▼ buttons to select **Clock Set**, then press the **ENTER** or ▶ button.

DVD-Record	er		Clock Set
🛃 Timer Rec.	Auto Clock	Set	Þ
🙀 Setup	Manual Cloo	k Set	•
4 ₽ MOVE	G' ENTER	€ RETURN	III EXIT

Press the ▲▼ buttons to select Auto Clock Set, then press the ENTER or ► button.

lock Data CH ime Zone aylight Savin		: Automa : Automa : Automa	ıtic	► ► ►
ime Zone		: Automa	ıtic	► ►
				•
aylight Savin	ig :	: Automa	itic	Þ
FENTER	€ RET	URN	Ш ЕХІТ	
	9 ENTER	P ENTER のRET	9 ENTER ර RETURN	୨ Enter

Note

Δ

If your clock is set to the wrong time zone or daylight saving, you can adjust these settings without turning off the Auto Clock Set function.

Press the ▲▼ buttons to select the sub menu (Clock Data CH, Time Zone or Daylight Saving), then press the ENTER or ► button.

Clock Data CH

Press the \blacktriangle buttons to select a channel that carries a time signal, then press the **ENTER** button. Select **Auto** to set the channel automatically.

DVD-Record	er	Clock Data CH
O No Disc		
Timer Rec.	Select	channel : Auto
<≎ MOVE	@ ENTER	

Time Zone

Press the ▲▼ buttons to select the time zone of your area, then press the ENTER or ► button. Select Automatic to set the time zone automatically.

DVD-Record	er	Auto Clock Set	
O No Disc			
🛃 Timer Rec.	Clock Data CH	Automatic	
🔅 Setup	Time Zone	Atlantic Eastern Central Mountain	
	Daylight Saving		
		Pacific	
		Alaska	
		Hawaii	
<≎ MOVE	GY'ENTER ∮ RE	TURN 🖽 EXIT	

Daylight Saving

Press the ▲▼ buttons to select **Yes** or **No**, then press the **ENTER** or ► button. Select **Automatic** to set the daylight saving automatically.





If Auto Setup fails to set the DVD Recorder & VCR's internal clock by locating a local TV station, follow these steps to set the date and time manually.



2

For accurate Timer Recording, your DVD Recorder & VCR's internal clock must be set correctly.

With the unit in Stop mode/No Disc mode, press the **MENU** button.



Press the $\blacktriangle \lor$ buttons to select **Setup**, then press the **ENTER** or \blacktriangleright button.

DVD-Record	er		Setup
No Disc			
🛃 Timer Rec.	System		►
🔅 Setup	Clock Set		•
	Channel Set		•
	Language		►
	Audio		•
	Video		•
	Parental Control	e	►
<≎ MOVE	ଙ enter ୀ	RETURN	ШЕХІТ



Press the **▲**▼ buttons to select **Clock Set**, then press the **ENTER** or **▶** button.

DVD-Record	er		Clock Set
O No Disc			
🛃 Timer Rec.	Auto Clock	Set	۲
🔂 Setup	Manual Cloo	k Set	►
<≎ MOVE	@ ENTER		III EXIT



Press the ▲▼ buttons to select **Manual Clock** Set, then press the ENTER or ► button.

DVD-Record	er Manual Clock Set
No Disc	
Timer Rec.	Month Day Year Hour Minute AM/PM 01 01 2006 12 00 AM SUN
<⇒ MOVE	Press numeric keys or ▲▼ keys. Ø'ENTER ① RETURN □□EXIT



Press the ▲▼◀► buttons to select the Current Date and Time, then press the **ENTER** button. When the current time is stored in memory and then the set is powered off, the current time will appear in the front panel display.

▲▼ : Sets the value

You can set the value using the number (0~9) buttons.

◄ ►: Moves to items



This feature allows you to manually set the DVD Recorder & VCR's tuner band to Antenna or Cable, whichever you connected to the Antenna In jack during initial setup.

- Use this setting only if Auto Setup detected the incorrect tuner band, i.e. channels are coming in on the wrong channel numbers.
- With the unit in Stop mode/No Disc mode, press the **MENU** button.



System Setup

Press the $\blacktriangle \lor$ buttons to select **Setup**, then press the **ENTER** or \triangleright button.

DVD-Record	er		Setup
No Disc			
🛃 Timer Rec.	System		►
Setup	Clock Set		•
	Channel Se		•
	Language		•
	Audio		•
	Video		►
	Parental Co	ntrol 🗗	►
<≎ MOVE	⊕ ENTER		ШЕХІТ

Press the ▲▼ buttons to select **Channel Set**, then press **ENTER** or ► button.



Press the ▲▼ buttons to select Antenna/Cable TV, then press the ENTER or ► button.

DVD-Record	er	Cł	nannel Set
O No Disc			
🛃 Timer Rec.	Antenna/Cable TV	Antenna	
Setup	Auto Channel Mer	n Cable TV	
	Channel Add/Dele	te	•
	RF Output Channe	el : CH3	•
<≎ MOVE	ଙ enter ନ	RETURN	

Select the Antenna or Cable TV(Signal Source) that matches the antenna connection you selected on pages 15~17.

- Antenna Select this if the DVD Recorder & VCR is connected to an indoor or outdoor VHF/UHF antenna. (See pages 15, 17)
- Cable TV Select this if the DVD Recorder & VCR is connected to a cable TV. (See page 16)



Auto Channel Memory will automatically seek and store all active channels in your area.

With the unit in Stop mode/No Disc mode, press the **MENU** button.

Press the $\blacktriangle \lor$ buttons to select **Setup**, then press the **ENTER** or \triangleright button.

B Pre

L

Press the $\blacktriangle \forall$ buttons to select **Channel Set**, then press the **ENTER** or \blacktriangleright button.

DVD-Recorde	er	Ch	annel Set
O No Disc			
🛃 Timer Rec.	Antenna/Cable	TV : Antenn	ia ►
Setup	Auto Channel I	Memory	•
	Channel Add/D	elete	►
	RF Output Cha	nnel : CH3	•
<⇒ MOVE	@'ENTER 4	RETURN	EXIT

Press the ▲▼ buttons to select Auto Channel **Memory**, then press the **ENTER** or ▶ button.



- The DVD Recorder & VCR will automatically search for all available channels in the selected tuner band. This procedure may take a few minutes to complete.
- . When finished, the lowest channel will be displaved.
- . If you want to stop or cancel scanning, press the ENTER button. Then select 'YES'.



channel that you would like to add or if you wish to remove a channel.

With the unit in Stop mode/No Disc mode, press the MENU button.

Press the $\blacktriangle \nabla$ buttons to select **Setup**, then press the **ENTER** or ▶ button.

Press the ▲▼ buttons to select Channel Set, then press the ENTER or ▶ button.



Press the ▲▼ buttons to select Channel Add/Delete, then press the ENTER or ▶ button.

DVD-Recorder	Channel Add/Delete
O No Disc	
Timer Rec.	Select channel : 1
	Add Delete
C NUMBER	ଙENTER €?RETURN ⅢEXIT



Press the ▲▼ or number buttons to select the channels you want to add or delete on the Select channel screen. Then, press the ENTER button.

- Using **CH/TRK** (\wedge/\vee) buttons for channel selection allows the user to add/delete one channel at a time.
- Using ▲▼ buttons for channel selection jumps to the next channel memorized in Auto Channel Memory.
- Press the < buttons to select Add or Delete. then press the ENTER button.







When you connect the DVD Recorder & VCR to your TV with the RF Antenna Cable, follow the steps below to set the RF Output Channel.

With the unit in Stop mode/No Disc mode, press the MENU button.

Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ▶ button.



Press the ▲▼ buttons to select **Channel Set**, then press **ENTER** or ► button.



Press the ▲▼ buttons to select **RF Output** Channel, then press the **ENTER** or ► button.



System Setup

5 Press the ▲▼ buttons to select CH3 or CH4, then press the ENTER or ► button.

The message "Please tune your TV to channel 3 (4)" will appear on the screen. Change your TV channel to CH3 or CH4 to match the RF Output Channel of the DVD Recorder & VCR.

Setting Up the Language Options

If you set audio, subtitle, disc menu and on-screen menu language in advance, they will come up automatically every time you watch a movie. If the selected language is not recorded on the disc, the original pre-recorded language is selected.

With the unit in Stop mode/No Disc mode, press the **MENU** button.

Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.

DVD-Record	er		Setup
O No Disc			
🕀 Timer Rec.	System		►
Setup	Clock Set		•
	Channel Se	t	•
	Language		•
	Audio		•
	Video		►
	Parental Co	ntrol 🗝	•
<> MOVE	@ ENTER		III EXIT

Press the ▲▼ buttons to select Language, then press the ENTER or ► button.

Language setup menu will be displayed.

DVD-Recorder Language			
No Disc			
🛃 Timer Rec.	Audio	: Original	►
🔂 Setup	Subtitle	: Automatic	•
	Disc Menu	: English	►
	On-Screen Menu	: English	►
<> MOVE	ଙ୍ENTER ମା	RETURN III E	XIT

Press the ▲▼ buttons to select the desired language option, press the ENTER or ► button.

DVD-Record	er	Language
O No Disc		
🛃 Timer Rec.	Audio	Original 🔺
Setup	Subtitle	English
	Disc Menu	Français
	On-Screen Menu	Deutsch
	OII-OCICCII Merid	Español
		Italiano
		Nederlands
		Korean v
<≎ MOVE	ଙ ENTER ମ F	ETURN EXIT

- Audio: For the disc audio language.
- Subtitle: For the disc subtitles.
- Disc Menu: For the disc menu contained on the disc.
- On-Screen Menu: For the on-screen menu of your DVD Recorder & VCR.

Press the ▲▼ buttons to select the desired language, then press the ENTER or ► button.

Note Press the RETURN or ◄ button to return to the previous menu. Press the MENU button to exit the menu.

The selected language will only appear if it is supported on the disc.

Setting Up the Audio Options

Allows you to setup the audio device and sound status settings depending on the audio system in use.

With the unit in Stop mode/No Disc mode, press the **MENU** button.

Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.



3

Press the ▲♥ buttons to select Audio, then press the ENTER or ► button.

Audio setup menu will be displayed.





Press the $\blacktriangle \nabla$ buttons to select the desired audio option, then press the **ENTER** or \triangleright button.



Press the $\blacktriangle \lor$ buttons to select the desired item, then press the **ENTER** or \triangleright button.

Press the RETURN or < button to return to the previous menu.
 Press the MENU button to exit the menu.

Digital Output

- PCM : Converts to PCM(2CH) 48kHz audio. Select PCM when using the Analog Audio Outputs.
- Bitstream : Converts to Dolby Digital Bitstream (5.1CH). Select Bitstream when using the Digital Audio Outputs.



Be sure to select the correct Digital Output or no audio will be heard.

DTS

- 1. Off : Doesn't output digital signal.
- On : Outputs DTS Bitstream via digital output only. Select DTS when connecting to a DTS Decoder.



When DTS soundtrack is played, sound is not output from Analog Audio Output.

Dynamic Compression

This is only active when a Dolby Digital signal is detected.

- On : When the Movie soundtracks are played at low volume or from small speakers, the system can apply appropriate compression to make low-level content more intelligible and prevent dramatic passages from getting too loud.
- 2. **Off** : You can enjoy the movie with the standard Dynamic Range.

Setting Up the Display(Video) Options

This function allows you to setup the TV screen settings.

With the unit in Stop mode/No Disc mode, press the **MENU** button.

Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.

DVD-Record	er		Setup
O No Disc			
🛃 Timer Rec.	System		►
Setup	Clock Set		•
	Channel Set		•
	Language		•
	Audio		•
	Video		•
	Parental Control	e,	►
<≎ MOVE	ଙ enter ච	RETURN	ШЕХІТ

3

System Setup

Press the ▲▼ buttons to select **Video**, then press the **ENTER** or ▶ button.

Video option menu will be displayed.

DVD-Recorder Video			
No Disc			
🔩 Timer Rec.	TV Aspect	: 16:9 Wide	►
🔅 Setup	Input Level	: Darker	•
	Black Level	: 7.5 IRE	•
	3D Noise Reduction	: Off	•
<≎ MOVE	@'ENTER ← RE'	TURN 🖽 EX	ат

Press the $\blacktriangle \lor$ buttons to select the desired video option, then press the **ENTER** or \triangleright button.

Press the ▲▼ buttons to select the desired item, then press the **ENTER** or ► button.

Press the **RETURN** or < button to return to the previous menu.

Press the **MENU** button to exit the menu.

TV Aspect

Depending on the type of television you have, you may want to adjust the screen setting. (aspect ratio)

- 4:3 Letter Box : Select when you want to see the total 16:9 ratio screen DVD supplies, even though you have a TV with a 4:3 ratio screen. Black bars will appear at the top and bottom of the screen.
- 4:3 Pan & Scan : Select this for a conventional size TV when you want to see the central portion of the 16:9 screen. (Extreme left and right side of movie picture will be cut off.)
- 16:9 Wide : You can view the full 16:9 picture on your wide-screen TV.

Input Level

Adjusts the level of the input signal.

- Darker : If you feel the screen is too light and you want to make the screen darker.
- Lighter : If you feel the screen is too dark and you want to make the screen lighter.

Black Level

Adjusts the black level of the screen.

- 7.5 IRE : This will enhance the black level for increased brightness/contrast when viewing DVDs. Select this when you want to make the screen lighter.
- 0 IRE : This is the standard NTSC reference black level for consistent brightness/contrast across all sources. Select this when you want to make the screen darker.

3D Noise Reduction

- Off : Normal
- On : Select to remove noise from the screen.
- This function depends on disc type. It may not work for some disc types.
 - IRE: Short for the Institute of Radio Engineers. An IRE unit is a relative unit of measure equaling 1/140th of the peak-to peak (p-p) video amplitude.
 - Black level function is not available in the progressive scan mode.
Setting Up the Parental Control

The Parental Control function works in conjunction with DVDs that have been assigned a rating - which helps you control the types of DVDs that your family watches. There are up to 8 rating levels on a disc.

With the unit in Stop mode/No Disc mode, press the **MENU** button on the remote control.

Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.



B Press the ▲▼ buttons to select **Parental Control**, then press the **ENTER** or ► button.





Create a 4-digit password using the 0 to 9 buttons on the remote control.



5 The Re-enter Password screen appears to confirm the password. Enter your password again, and then press the ENTER or ► button.

DVD-Record	er	Pare	ntal Control
O No Disc			
🛃 Timer Rec.	Password	Off	
🔅 Setup		On	
<≎ MOVE	@ ENTER		III EXIT

6 Press the ▲▼ buttons to select On, then press the ENTER or ► button.

The Parental Control screen appears.



Note

Press the RETURN or d button to return to the previous menu. Press the MENU button to exit the menu.

 Refer to Troubleshooting if you forget your password. (See page 91)

About the Rating Level

Press the ▲▼ buttons to select **Rating Level**, then press the **ENTER** or ► button.



DVD-Recorder		Parental Control
O No Disc		
🔩 Timer Rec.	Password	Level 8 Adults
Setup	Rating Level	Level 7
	Change Password	Level 6
	onango raconora	Level 5
		Level 4
		Level 3
		Level 2
		Level 1 Kids
<≎ MOVE	ଙ୍କ ENTER ମ	ETURN EXIT

Press the ▲▼ buttons to select the rating level you want, then press the ENTER or ► button. For example, if you select up to Level 6, discs that contain Level 7, 8 will not play. A larger number indicates that the program is intended for adult use only. Press the ▲▼ buttons to select Change Password, then press the ENTER or ▶ button.



System Setup

Enter the 4-digit password using the number buttons Ζ on the remote control.

The 'Confirm the password' message will be displayed.

SO NUMBER
 G ENTER
 O RETURN
 EXIT





Press the RETURN or < button to return to the</p> previous menu.

Press the MENU button to exit the menu.

VCR Setting This function allows you to setup the VCR. With the unit in Stop mode/No Disc mode, press the MENU button. Press the ▲▼ buttons to select Setup, then press the **ENTER** or ▶ button. DVD-Recorde No Disc
 A. Timer System Setup Clock Set Channel Set Language Audio Video Parental Control <> MOVE Ш EXIT Press the ▲▼ buttons to select System, then press the ENTER or ▶ button. DVD-Recorder No Disc
 🛃 Timer I Video Input : AV 1 Setup . DVD EP Mode Time: 6 Hours Chapter Creator : Off Quick Recording : Off Ш EXIT Press the ▲▼ buttons to select VCR, then press the **ENTER** or ► button.

DVD-Record	er		VCR
O No Disc			
🛃 Timer Rec.	Tape Length	: T120	►
🔅 Setup	Auto Play	: On	•
	Auto Repeat	: Off	►
<≎ MOVE	@ ENTER		III EXIT

Note

Press the ▲▼ buttons to select the desired VCR option, then press the **ENTER** or ▶ button.

Press the ▲▼ buttons to select the desired item, h then press the **ENTER** or ▶ button.

Tape Length

This information is usually printed on the tape box. The menu cycles through: T-120, T-160 or T-180. Once the type of cassette is set, the VCR can display the amount of time remaining on the tape when you press the INFO button.

DVD-Record	er		VCR
O No Disc			
🛃 Timer Rec.	Tape Length	T120	
👌 Setup	Auto Play	T160	
	Auto Repeat	T180	
<≎ MOVE	@ ENTER		

Auto Play

If you want your videotapes to play automatically when you insert them, turn on Auto Play.

- · Off : Auto play is disabled.
- On : The VCR will automatically begin playing a video tape when it is inserted, as long as the safety tab of the cassette has been removed.



Auto Repeat

It sets the VCR to play a tape repeatedly (unless a tape control is activated :Stop, Fast Forward or Rewind).

DVD-Record	er		VCR
Timer Rec.	Tape Length Auto Play Auto Repeat	: T120 : On Off On	;
<≎ MOVE	@ ENTER		ШЕХІТ



You can watch video from an external component through the AV 1(Composite) or S-video input jacks.

With the unit in Stop mode/No Disc mode, press the MENU button.

Press the ▲▼ buttons to select **Setup**, then press the ENTER or ▶ button.

DVD-Record	er		Setup
No Disc			
🛃 Timer Rec.	System		►
Setup	Clock Set		•
	Channel Set		•
	Language		•
	Audio		•
	Video		•
	Parental Cor	ntrol 🗗	►
<⇔ MOVE	@ ENTER		III EXIT

Press the ▲▼ buttons to select System, then



press the ENTER or ▶ button.



Press the ▲▼ buttons to select Video Input, then press the ENTER or ► button.

DVD-Record	er		System
No Disc			
🛃 Timer Rec.	VCR		•
🔅 Setup	Video Input	AV 1	
	DVD EP Mode Time	S-Video	
	Chapter Creator	: Off	•
	Quick Recording	: Off	►
<≎ MOVE	ଙ enter ମ	RETURN	III EXIT

Press the ▲▼ buttons to select AV 1 or S-Video, then press the ENTER or ▶ button.





You can set the EP(Extended Play)mode's time setting to 6 or 8hours.

With the unit in Stop mode/No Disc mode, press the **MENU** button.

Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.



Press the **▲**▼ buttons to select **System**, then press the **ENTER** or **▶** button.

Press the ▲▼ buttons to select **DVD EP Mode Time**, then press the **ENTER** or ► button.



Press the **▲**▼ buttons to select **6 Hours** or **8 Hours**, then press the **ENTER** or **▶** button.

Automatic Chapter Creator

A DVD-Video consists of 'Titles' and 'Chapters'. When you record one program, it makes one Title. If you use this function, the Title will be divided into Chapters.



- With the unit in Stop mode/No Disc mode, press the **MENU** button.
 - Press the **▲**▼ buttons to select **Setup**, then press the **ENTER** or **▶** button.

DVD-Record	er	Setup
DVD-RW(V)	
Title List	System	►
O Disc Manager	Clock Set	•
A Timer Rec.	Channel Set	•
-	Language	•
🔅 Setup	Audio	•
戦 Сору	Video	•
	Parental Control e	•
<≎ MOVE	ଙ enter ♪ Return	ШЕХІТ

- **3** Press the $\blacktriangle \lor$ buttons to select **System**, then press the **ENTER** or \succ button.
- 4

Press the $\blacktriangle \lor$ buttons to select **Chapter Creator**, then press the **ENTER** or \blacktriangleright button.

DVD-Record	er	System
OVD-RW(V)	")	
Title List Disc Manager	DVD EP Mode Time:	AV 1 6 Hours Dff
Copy		Dn
<≎ MOVE	@" ENTER ← RE	TURN 🔟 EXIT

5 Protection

Press the ▲▼ buttons to select **On**, then press the **ENTER** or ► button. Press the **MENU** button to exit the menu.

6 Set the recording speed by pressing the **REC SPEED** button on the remote (see page 59 for more information on recording speeds). Press the **REC** button to start recording. The message "Do you want to create the chapter menu after this recording?" is displayed.



- Press the ◀ ► buttons to select **Yes** and press the ENTER button and recording begins. In XP and SP mode, you must record at least 5 minutes to create a chapter. In LP and EP mode, 15 minutes.

Press the STOP button to stop recording.

To display the created titles, finalize the disc (see page 86) and then press the TITLE MENU button. The title menu will be displayed.



To display the created chapters, select the desired Title and then press the **DISC MENU** button. The chapter menu for the selected Title will be displayed.





CAUTION

On DVD-RW discs, additional chapters and titles can be added to a finalized disc by unfinalizing and recording again. On DVD-R discs, once finalized, no additional chapters or titles can be recorded.

The Automatic Chapter Creator function does not work during Timer Recording or when you turn the power off.

DVD-R discs cannot be unfinalized.

Quick Recording

It takes about 10 seconds for a disc to load (initialize) every time you turn on the unit. To bypass this initialization process, you can set the Quick Recording feature to On. This enables you to record immediately without having to wait for the disc to load.

With the unit in Stop mode/No Disc mode, press the MENU button.

Press the ▲▼ buttons to select **Setup**, then press the ENTER or ▶ button.

DVD-Record	er		Setup
No Disc			
🛃 Timer Rec.	System		►
Setup	Clock Set		•
	Channel Set		•
	Language		•
	Audio		•
	Video		•
	Parental Co	ntrol 🗗	►
<≎ MOVE	@ ENTER		III EXIT



Press the **▲**▼ buttons to select **System**, then press the ENTER or ▶ button.



Press the ▲▼ buttons to select Quick Recording, then press the **ENTER** or ▶ button.

DVD-Record	er	System
🛃 Timer Rec.	VCR	•
🔂 Setup	Video Input : AV 1	•
	DVD EP Mode Time: 6 Hours	s 🕨
	Chapter Creator : Off	•
	Quick Recording Off	
	On	
<≎ MOVE	@'ENTER ∽ RETURN	III EXIT

Press the ▲▼ buttons to select **On**, then press the **ENTER** or ► button.



The Quick Recording is set to Off as default. If this function is set to on, power consumption will be increased when the unit is powered off.

Playback

This section introduces basic functions of playback by disc type.



STEREO NTSC



MP3

Stereo

NTSC broadcast system in U.S.A, Canada, Korea, Japan,etc.

◆ DVD Playback

•	
Before Playing	42
Playing a Disc	43
Using the Disc Menu and Title Menu	44
Using the Search & Skip Functions	44
Slow Motion Play / Step Motion Play	45
About ANYKEY	45
Repeat Playback	46
Selecting the Subtitle & Audio Language	47
Changing the Camera Angle	48
Zooming-In	48
Using the Bookmarks	49
Using the Markers	50
Playing back an Audio CD (CD-DA)	51
Playing back an MP3 Disc	52
Repeat Playback of an Audio/MP3 Disc	53
Play Option Mode	53
To Program Tracks	54
Playing a Picture Disc	54

♦ VCR Playback

Playing the VCR	55
Tracking	55
Special VCR Playback Features	56
S-VHS Playback	56
Variable Search System	56

Before Playing

Read the following information before playing a disc.

Region code (DVD-Video only)



Both the DVD Recorder & VCR and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play. The Region Number for this DVD Recorder & VCR is described on the rear panel of the DVD Recorder & VCR.

Disc types that can be played

DISCI	ypes in		e playeu	
Disc Types	Disc Logo	Recorded content	Disc Shape	Max. Playing Time or minute.
			Single sided(5")	240
	סעס	VIDEO	Double sided(5")	480
DVD-VIDEO	VIDEO	AUDIO	Single sided(3.5")	80
			Double sided(3.5")	160
AUDIO-CD	പാത്രംപ	AUDIO	Single sided(5")	74
AUDIO-CD		AUDIO	Single sided(3.5")	20
JPEG CD-R/-RW			Single sided(5")	-
		JPEG Images	Single sided(3.5")	-
אים אם מא		MP3 Audio	Single sided(5")	-
MP3 CD-R/-RW		IVIFS AUUIO	Single sided(3.5")	-
				1 hr (XP: Excellent Quality)
			Single sided(5")	2 hrs (SP: Standard Quality)
			(4.7GB)	4 hrs (LP: Long Playback)
אאם מעמ	DVD	VIDEO	· · ·	6 hrs or 8 hrs (EP:Extended)
DVD-RAM	RAM	AUDIO		2 hrs (XP: Excellent Quality)
			Double sided(5")	4 hrs (SP: Standard Quality)
			(9.4GB)	8 hrs (LP: Long Playback)
			· · · ·	12 or 16 hrs (EP:Extended)
				1 hr (XP: Excellent Quality)
DVD-RW		VIDEO AUDIO 5" (4.7GB)		2 hrs (SP: Standard Quality)
	RW		4 hrs (LP: Long Playback)	
				6 or 8 hrs (EP:Extended)
				1 hr (XP: Excellent Quality)
			Single layer(5")	2 hrs (SP: Standard Quality)
			(4.7GB)	4 hrs (LP: Long Playback)
DVD-R	DVD	VIDEO		6 or 8 hrs (EP:Extended)
	R	AUDIO		2 hrs (XP: Excellent Quality)
			Dual layer(5")	4 hrs (SP: Standard Quality)
			(8.5GB)	8 hrs (LP: Long Playback)
				11 or 15 hrs (EP:Extended)
				1 hr (XP: Excellent Quality)
DVD+RW	RW	VIDEO	5" (4.7GB)	2 hrs (SP: Standard Quality)
DIDITI	DVD+ReWritable	AUDIO	J (4.70D)	4 hrs (LP: Long Playback)
				6 or 8 hrs (EP:Extended)
				1 hrs (XP: Excellent Quality)
			Single layer(5")	2 hrs (SP: Standard Quality)
			(4.7GB)	4 hrs (LP: Long Playback)
DVD+R	RU	VIDEO		6 or 8 hrs (EP:Extended)
575m	DVD+R	AUDIO		2 hrs (XP: Excellent Quality)
			Dual layer(5")	4 hrs (SP: Standard Quality)
			(8.5GB)	8 hrs (LP: Long Playback)
				11 or 15 hrs (EP:Extended)

Discs that cannot be played

- DVD-Video with a region number other than "1" or "ALL"
- 3.9 GB DVD-R Disc for Authoring.
- A DVD±R/DVD-RW(V) disc which has been recorded and not finalized in a different manufacturer's recorder.
- PAL discs
- DVD-ROM/PD/MV-Disc/ DivX Video Disc, etc
- Video CD/CVD/SVCD/CD-ROM/CDV/CD-G/CD-I
- This DVD Recorder & VCR can only operate with discs that are compatible with DVD-RAM Standard Version 2.0.
 - Playback and/or recording may not work for some types of discs or when specific operations, such as angle change and aspect ratio adjustment, are being performed. Information about the disc is written in detail on the box. Please refer to this if necessary.
 - Do not allow the disc to become dirty or scratched, fingerprints, dirt, dust, scratches and deposits of cigarette smoke on the recording surface may make it impossible to use the disc for recording.
 - DVD-RAM/±RW/±R discs may not be able to play on some DVD players, depending on the player, disc and the condition of the recording.
 - Discs with PAL programs recorded on them cannot be played using this product.

Playing a Disc



Press the OPEN/CLOSE button.

Place a disc gently into the tray with the disc's label facing up.

- Press OPEN/CLOSE button to close the disc tray.
 - Your DVD Recorder & VCR closes the disc tray and plays the disc automatically.
 - The recorder does not play discs automatically after being powered on initially.
 - When the recorder is powered on and a disc is in the tray, the unit will be activated and wait in stop status. Press the **PLAY** button to start playback.



Press the **STOP** button to stop playback.

Note Re

When you stop playing the disc, the DVD Recorder & VCR remembers where you stopped. When you press **PLAY** button again, it will pick up where you left off. (unless the disc is removed or the DVD Recorder & VCR is unplugged, or if you press the **STOP** button twice.) This function is only applicable to DVD-VIDEO, DVD-RAM, DVD±RW, DVD±R or Audio CDs (CD-DA).

- Do not move your DVD Recorder & VCR while playing, as this may cause damage to the disc.
 - Make sure to press the OPEN/CLOSE button to open or close the disc tray.
 - Do not push the disc tray while it is being opened or closed, as this may cause a product malfunction.
 - Do not place foreign materials on or in the disc tray.
 - Some functions may perform differently or be disabled depending on the disc type. If this occurs, refer to the instructions written on the disc case.
 - Be especially careful that children's fingers are not caught between the disc tray and the tray chassis when it closes.
 - After turning power on, it will take a few seconds until the DVD Recorder & VCR operates.

Using the Disc Menu and Title Menu

Some discs contain a dedicated menu system that allows you to select special functions for title, chapters, audio track, subtitles, film previews, information on characters, etc.

For DVD-VIDEO disc

	6			
)))	2	
D	VD-	VID	0	

Press the **DISC MENU** button to enter the disc menu of the disc.

- Move to the setup menu related to playback operation.
- You can select audio language and subtitle etc., provided by the disc.
- Press the **TITLE MENU** button to move to the title menu of the disc.
 - Use this button if the disc contains more than one title. Some discs may not support the title menu functionality.

For DVD-RAM/DVD±RW/DVD±R disc



Press the TITLE LIST button to display title list.

Title List : The Title List is simply a list of titles on a disc. If a title is deleted, that title cannot be played again.

 Playlist (DVD-RAM/-RW(VR)) : A playlist is a custom-made list of titles. When one playlist is played, only the titles within the playlist will play and then stop. Even if that playlist is deleted, the original recording will not be deleted.

Using the Search & Skip Functions

Searching through a Chapter or Track



During the playback, press the **SEARCH** ◄◀ or ►► button on the remote control. Each time you press the **SEARCH** button, the playback speed will change as follows.

DVD-VIDEO/ DVD-RAM/DVD±RW DVD±R	 ► Fast 1/< Fast 1/< Fast 2/ Fast 3/ Fast 3/ Fast 4/ Fast 5/ Fast 5/ Fast 6/ Fast 6
AUDIO CD(CD-DA)	$\xrightarrow{\rightarrow} X2 \rightarrow X4 \rightarrow X8$

- You can scan the program in reverse order. To return to normal speed playback, press the >II button.
- No sound is heard during Scan(Search) mode, except on CDs (CD-DA). (You can hear the sound during forward search (Fast 1) in disc.) Depending on the disc type, the sound quality may lower during Fast 1 mode.

Skipping Chapters or Tracks

During the playback, press the $I \blacktriangleleft \P$ or $\triangleright \triangleright I$ button on the remote control.

If you press the I◄◀ button

If you press the I◄◀ button, it moves to the beginning of the chapter, track or marker(DVD-RAM, DVD-RW(VR mode)). Pressing the button once again within 3 seconds returns to the beginning of the previous chapter, track or marker(DVD-RAM, DVD-RW(VR mode)).

 If you press the ►►I button
 If you press the ►►I button, it moves to the next chapter, track or marker(DVD-RAM,DVD-RW (VR mode))

Skipping ahead 30 seconds

During the playback, press **F.ADV/SKIP** button to skip ahead exactly 30 seconds.

Note

Slow Motion Play/ Step Motion Play

Slow Motion Play (DVD-VIDEO / DVD-RAM / DVD±RW / DVD±R)



During pause mode, press the **SEARCH** ◀◀ or ►► button on the remote control for more than 1 second.

- Each time you press the ▶▶ button : $\blacktriangleright \text{Slow } 1 \rightarrow \blacktriangleright \text{Slow } 2 \rightarrow \blacktriangleright \text{Slow } 3$
- Each time you press the **I** button : $\blacktriangleleft \text{ Slow } 1 \rightarrow \blacktriangleleft \text{ Slow } 2 \rightarrow \blacktriangleleft \text{ Slow } 3$

To return to normal speed playback, press the ►II button.

Step Motion Play (DVD-VIDEO / DVD-RAM / DVD±RW / DVD±R)



During pause mode, press the F.ADV button on the remote control.

· Each time the button is pressed, a new frame will appear.

To return to normal speed playback, press the ►II button.



No sound is heard during Step or Slow mode.

About ANYKEY

The ANYKEY functions allows you to easily search for a desired scene by accessing title, chapter or time. You can also change the subtitle and audio settings and set some features including Repeat, Angle and Zoom.

Moving to a scene directly using the ANYKEY

. If you want to move to a title or a chapter to find a desired scene.







Press the **AV** buttons to select **Title**, **Chapter**.



		κ.	
1	Э	D	
	1	K.	
	- 1	n	
~	-	,	

Press the **I** buttons or number (**0**~**9**) buttons to select the desired scene. Then, press the ENTER button.

- If you want to move to a desired time to help you find a scene.
 - Press the ANYKEY button during playback.



- 3 Enter the time in the sequence of hours, minutes, and seconds using the number buttons, then press the **ENTER** button.
 - This may not work for some discs. When an Audio CD(CD-DA) or an MP3 disc is inserted, depending on the disc type, the information display may not be appear.
 - The Time Search function does not operate in some discs.
 - To make the screen disappear, press the ANYKEY button again.





- Select repeat mode using **◄**► button. Press the **ENTER** button.
- To make the screen disappear, press the **ANYKEY** or **RETURN** button.



DVD-RAM/DVD-RW(VR mode), unfinalized DVD±R and unfinalized DVD-RW (Video mode) do not repeat a chapter.

Playing a Certain section Repeatedly (A-B Repeat Playback)



- Pres
 - Press the **ANYKEY** button during playback.





- Press the ◀► button to select **A-B**, then press the **ENTER** button.
- Press the **ENTER** button at the point where you want repeat play to start (A) and press it again at the point where you want the repeat play to stop (B). Repeat playback of the A-B section starts.



- To return to normal playback -
- **5** Press the **CANCEL** button to return to normal playback.



■ If you set point (B) before five seconds has lapsed, the prohibition mark (⊘) will appear.

CDs do not support the Repeat A-B function.

Note

Selecting the Subtitle & Audio Language Selecting the SUBTITLE language Subtitle languages may not work depending on the disc type. This is only available during playback. Using the SUBTITLE button Press the SUBTITLE button during playback. Press the ▲▼ buttons to select the desired subtitle language. . To make the screen disappear, then press the CANCEL or RETURN button. Using the ANYKEY button Press the **ANYKEY** button during playback. Press the **AV** buttons to select **Subtitle**, then press the < buttons to select the desired subtitle language.





- The subtitle display may be different depending on the disc type.
- If the subtitles overlap, disable the caption function on your TV.
- Some discs allow you to select the language for the disc menu only.

Selecting the Audio language

Audio languages may not work depending on the disc type. This is only available during playback.



Using the AUDIO button

Press the AUDIO button during playback.





Press the **AUDIO** or **▲**▼ buttons to select the desired audio language.

Using the ANYKEY button

Press the ANYKEY button during playback.



Press the $\blacktriangle \lor$ buttons to select **Audio**, then press the $\blacktriangleleft \triangleright$ buttons to select the desired audio language.





 Audio languages may be different because they are disc-specific.

Some discs allow you to select the audio language for the disc menu only.



Changing the Camera Angle

If a DVD-VIDEO contains multiple angles of a particular scene, you can use the Angle function. If the disc contains multiple angles, **ANGLE** appears on the screen.



Using the ANGLE button

Press the ANGLE button, during playback.



ICK

2

Press the $\blacktriangle \nabla$ button to select the desired angle.

EY Using the ANYKEY button

- Press the ANYKEY button during playback.
- Press the ▲▼ buttons to select Angle, then press the ◀► buttons or number (0~9) buttons to select the desired angle scene.



This function is disc-dependent, and may not work all DVDs.

This function does not work when a DVD has not been recorded with a multi-camera angle system.

Zooming-In

Press the ANYKEY button during playback.



- 2
 - Press the ▲▼ buttons to select **Zoom**, then press the **ENTER** button. ([©]) will be displayed.



Press ▲▼, ◀ ► buttons to move to the area you want to enlarge.

Press the ENTER button.

• Each time the **ENTER** button is pressed, the picture is enlarged up to 4X (four times the normal size).





You can also select Zoom function directly using ZOOM button on the remote control.

Note









Press the ENTER button when the desired scene appears.

• The number 1 is displayed and the scene is memorized.



Press the ◀ ► button to move to the next position.

Press the ENTER button again when the desired scene appears.

• The number 2 is displayed and the scene is memorized. Repeat above to bookmark other positions. You can bookmark up to 10 scenes.



Playing back a Bookmark

Press the MARKER button.

scene.





Press the ENTER or ►II button to start playing from the selected scene.

Clearing a Bookmark



Press the MARKER button.

Press the ◀ ► buttons to select a bookmarked scene.





Press the CANCEL button to delete the selected bookmark.





When the disc tray is opened and then closed, bookmarks will disappear.



Press the MARKER button during playback.



2

Press the **ENTER** button when the desired scene appears.



• The number 01 is displayed and the scene is memorized.

Press the \blacktriangleleft button to move to the next position.

Press the **ENTER** button again when the desired scene appears.



- The number 02 is displayed and the scene is memorized.
- DVD-RAM or DVD-RW (VR Mode) discs have the Marker function instead of the Bookmark function. The Marker function allows you to mark up to 99 scenes. Since the scenes may be displayed as many different pages, numbering is necessary. If a disc in use is encoded with Disc Protect, Markers cannot be set or deleted. Only playback is available.

Playing back a Marker

Press the MARKER button during playback.







- Press the **ENTER** or **►II** button to start playing from the selected scene.
- If you press the NEXT SKIP (▷▷I)button or the PREVIOUS SKIP(I◄<)button in marker mode, and the next or current marked point plays for shorter than three seconds, playback starts from the previous marked point.

Clearing a Marker

Press the MARKER button during playback.

2

Press the ◀ ► buttons to select a marked scene. Press the **CANCEL** button to delete the selected mark.



 When a marker is cleared while DVD-RAM/ DVD-RW(VR mode) is playing, marker numbers will change. For example, if the 7th marker is cleared after ten markers are registered, the marker numbers after the eighth will automatically move ahead by one and the 8th marker becomes the 7th.

Playback

Playing back an Audio CD (CD-DA)

Each disc has a variety of menu functions available.

Playing an Audio CD (CD-DA)

- Insert an Audio CD (CD-DA) into the disc tray.
 The Audio CD menu appears and the tracks (songs) are played automatically.
 - CD
 Music List

 ♥ TRACK 1
 01/15

 ● TRACK 1
 01/15

 ● TRACK 1
 00:03:55

 ● TRACK 1
 00:03:56

 003<TRACK 3</td>
 00:03:49

 004<TRACK 3</td>
 00:03:49

 004<TRACK 5</td>
 00:03:44

 007<TRACK 5</td>
 00:03:44

 007<TRACK 5</td>
 00:03:44

 007<TRACK 5</td>
 00:03:44

 007<TRACK 6</td>
 00:03:44

 007<TRACK 7</td>
 00:03:44

 007<TRACK 6</td>
 00:03:44

 007<TRACK 7</td>
 00:03:44

 007<TRACK 7</td>
 00:03:44

 007<TRACK 7</td>
 00:03:44
- Press the ▲▼ buttons to select the track (song) to start playback from, and then press the ENTER button.

Audio CD(CD-DA) Screen Elements



- 1. Play mode icon.
- Current track (song): Displays the number of the track currently being played.
- 3. Displays the current play index and total track number.
- 4. This shows the operating state of a disc and a playback time corresponding to a portion that is currently played.
- 5. Displays the track list (song list) and the playing time of each track.
- 6. Button display

Buttons on the Remote Control used for CD playback



 I ◄ button: Returns to the beginning of the current track when pressed during playback. If pressed again, your DVD Recorder & VCR moves to and plays the previous track.

If you press this button within three seconds after playback starts, the previous track will be played. If you press this button after three seconds, the current track will be replayed from the beginning.

- 2. **I button:** Plays the next track.
- 3. Press the (<< />>>) button: Fast Play (X2, X4, X8)
- 4. ■: Stops a track(song).
- 5. ►II : Plays a track(song) or pauses playback.
- 6. ▲▼: Selects a track (song).
- 7. ▶, ENTER button: Plays the selected track (song).
- 8. **ANYKEY :** To display the play mode window. (Repeat or Play Option).

Playing back an MP3 Disc

Playing an MP3 Disc

Insert an MP3	3 disc ir	nto the di	sc tray.
DVD-Record	er	Disc	Navigation
Disc Navigation	Photo		•
Timer Rec.	Music		•
<≎ MOVE	@ ENTER		ШЕХІТ

- **2** Press the $\blacktriangle \lor$ buttons to select the **Disc Navigation**, and then press the **ENTER** or \triangleright button.
- Press the ▲▼ buttons to select the **Music**, and then press the **ENTER** or ► button.
- 4 Press the ▲▼ buttons to select the track (song) you want to hear, and then press the ENTER button.



MP3 Screen Elements



- 1. Play mode icon.
- 2. Current track (song): Displays the name of the track being played.
- 3. Displays the current play index and total file number.
- 4. This shows the operating state of a disc and a playback time corresponding to a portion that is currently played.
- 5. Displays the mp3 file and folder list (song list).
- 6. Button display.
- 7. MP3 file information

52 - English

Buttons on the Remote Control used for MP3 disc playback



 I det button: Returns to the beginning of the current track when pressed during playback. If pressed again, your DVD Recorder & VCR moves to and plays the previous track.

If you press this button within three seconds after playback starts, the previous track will be played. If you press this button after three seconds, the current track will be replayed from the beginning.

- 2. **I button:** Plays the next track.
- 3. ■: Stops a track(song).
- 4. ►II : Plays a track(song) or pauses playback.
- 5. **RETURN button:** Moves to the folder to which the current song belongs.
- 6. $\blacktriangle \nabla$: Selects a track (song).
- F. ENTER button: Plays the selected track (song) or displays the files in the selected folder.
- ANYKEY : To display the play mode window. (Repeat or Play Option).

Repeat Playback of an Audio/MP3 Disc



During playback, press the **ANYKEY** button. The Repeat mode will be highlighted.



Press the ◀ ► buttons to select the desired repeat mode you want to play repeatedly, then press the ENTER button.



- To return to normal playback -

B Press the **CANCEL** button to return to normal playback.

Play Option Mode

- 1
 - During Stop, Press the **ANYKEY** button. The Play option will be highlighted.

TRACK 1			01/
	No.	Title	Length
	PLAY M	ODE	0:03:50
L C		- F - 41	0:04:00
► 0:	Repeat : Of		0:03:49
	Play option	: Normal 🔹	0:03:47
GROA			.0:04:29
CODA	006		
	007	TRACK 7	



Press the ◀ ► buttons to select a desired Play Option, then press the **ENTER** button.



- Normal: Tracks on a disc are played in the order in which they were recorded on the disc.
- **Playlist:** The Playlist playback option allows you to select the order in which you want tracks to play.
- Intro[I]: The first 10 seconds of each track will be played. If you want to listen to the music that you have selected, press the ENTER button or ►II button. The play option will be changed to Normal Play. When Intro Play is completed, Normal Play is performed.
- Random[R]: The Random option plays a disc's tracks in random order. After a random list is generated and played completely, another random list is generated and played.

Random Play is continued until the play option is changed.



In still mode, press the **ANYKEY** button.

The Play option will be highlighted.

2

Press the ◀ ► buttons to select **Playlist**, then press the **ENTER** button. Playlist screen is displayed.



Press the ▲▼ buttons to select tracks in the order in which you want them to play, then press the ENTER button.



If you selected a wrong track, press the ► button, then press the ▲▼ buttons to select the wrong track. Press the CANCEL button. The wrong track will be removed.

				۵D	03/03
CDDA	TRACK 1		001	TRACK 1	
CDDA	TRACK 2		002	TRACK 2	
CDDA	TRACK 3		003	TRACK 3	
CDDA	TRACK 4				
CDDA	TRACK 5	-			
CDDA	TRACK 6				
CDDA	TRACK 7				
CDDA	TRACK 8	-			

5 Press the **PLAY** button to play the playlist.





Insert a JPEG into the disc tray.

DVD-Record	er	Dis	Navigation
⊙ JPEG			
Disc Navigation	Photo		•
Timer Rec.	Music		•
Setup			
<> MOVE	⊕ ENTER	↔ RETURN	III EXIT

- Press the ▲▼ buttons to select **Disc Navigation**, and then press the **ENTER** or ► button.
- **3** Press the $\blacktriangle \lor$ buttons to select **Photo**, and then press the **ENTER** or \triangleright button.
 - Press the $\blacktriangle \nabla \blacktriangleleft \triangleright$ buttons to select a picture.



- To see the next 8 pictures, press the ▶▶ button.
- To see the previous 8 pictures, press the 🖊 button.



If you press the ►II button, the Slide Show Speed screen will appear. Press the **I** buttons to set the slide show

speed, then press the ENTER button.



5⁻² Press the ENTER button with a picture selected in the Album screen and select a display mode (Album screen (IIII), Slide show (IIII), Rotation (☐) or Zoom (④)) using the ◀ ► buttons, then press the ENTER button.



- : Returns to the Album screen.
- G. : The unit enters slide show mode. Before the slide show can begin, the picture interval (Slide show speed) must be set.
- : Each time the ENTER button is pressed, the picture rotates 90 degrees clockwise.
- : Each time the ENTER button is pressed, the Ð picture is enlarged up to 4X(four times the normal size).

 \rightarrow normal size \rightarrow 2X \rightarrow 4X \rightarrow 2X \neg

- Press the ANYKEY button to display menu bar.
- · Press the RETURN button to clear the menu bar.

Playing the VCR

- Insert a standard VHS tape into the VCR deck. . When a tape is inserted, power will turn on automatically.

Press the ►II(PLAY/PAUSE) button on the remote control or on the front panel of the unit. The videotape will begin to play automatically if the Record Safety Tab is removed and Auto Play is turned on.



Press the ■(STOP) button on the remote control or on the front panel of the unit.



The Tracking adjustment removes the white lines that sometimes appear during playback because of slight differences in recording decks. The **CH/TRK** $(\land \lor \lor)$ button will automatically align the recorded tracks with the playback heads to solve this problem. You may also set tracking manually.

Adjust Tracking Manually During playback, press the CH/TRK (\wedge/\vee) buttons to remove white lines from the picture.

Special VCR Playback Features

While a videotape is playing, you can enjoy a variety of special playback features, including Still, Frame Advance, Skip, Slow motion, and more.

Pause

In Play mode, press **II**(PLAY/PAUSE)button to still a single frame.

Frame Advance

In Pause mode, press F.ADV/SKIP button to advance to the next frame.

Fps/Review

In Play mode, press Forward (►►)button or Rewind (</)button to Fps/review at two speeds:

- · Picture Search Press and release repeatedly to advance the tape forward or backward at 2.3.5.7 times normal speed.
- · Jet Search Press and hold to advance the tape forward or backward at 7 times normal speed.

Skip

In Play mode, press F.ADV/SKIP button to cue ahead exactly 30 seconds. Press F.ADV/SKIP button repeatedly up to 4 times to cue ahead 2 minutes.

Slow motion

In Pause mode, press ▶▶ button for slow motion. Press the **>>** button repeatedly to vary slow motion speed from 1/5 to 1/30 of normal playback. Press the **PLAY** button twice to resume normal viewing.



The DVD Recorder & VCR allows you to playback high quality S-VHS tapes.

Insert an S-VHS tape into the VCR deck.

Press **II** (**PLAY/PAUSE**) button on the remote control or on the front panel to play a S-VHS tape.

Variable Search System

Each time you record a cassette on this DVD Recorder & VCR, an "index" is automatically marked on the tape when recording is started. The Search function allows you to fast-forward or rewind to a specific index and start playback from that point. Depending on the direction selected, the indexes are numbered as follows

 This DVD Recorder & VCR uses a standard indexing system (VISS). As a result, it will recognize any indexes marked by other VCRs using the same system and vice versa.

Go To Zero

Use this feature when you want to search for the 0:00:00 counter position on a cassette.



Press the CANCEL button at the point on the tape where you want to set the counter to 0:00:00.

While a cassette is stopped, press the ANYKEY button.



Press the ▲▼ buttons to select **Go To Zero**, then press the ENTER button.

The VCR will rewind or fast forward, searching for the 0:00:00 counter position, and then automatically stop at that position.

Go To Zero	
→→ 00:00:49	

End Search

Use this feature when you want to search for a blank position to record a program on a cassette.

While a cassette is stopped, press the **ANYKEY** button.



Press the ▲▼ buttons to select End Search, then press the ENTER button.

The VCR will fast forward, searching for a blank position, and then automatically stop at that position. If the VCR reaches the end of the tape during end search, the tape will be ejected.

End Search ►► 00:00:13	

Forward / Reverse Intro Scan

Use scan and play when you don't know exactly where a program is located on a cassette tape.

While a cassette is stopped, press the **ANYKEY** button.



Press the ▲▼ buttons to select Forward Intro Scan or Reverse Intro Scan, then press the ENTER button. When an Index mark is found, the DVD Recorder & VCR will playback the tape for 5 seconds, after which it will continue searching for the next Index mark.



Recording

This section explains various DVD recording methods.

DVD Recording Before Recording S8 Recordable discs S8 Recording Formats S9 Recording Mode S9 Unrecordable video S9 Recording the Current Channel you are watching 60 Recording from External Devices 61 Recording through a DV Input jack 61 Making a One Touch Recording(OTR) 62 Editing the Scheduled Record List 64 Deleting a the Scheduled Record List

♦ VCR Recording

Basic VCR Recording	65
Check Remaining Time	66
Special Recording Features	66
Copy to DVD or VCR	67

Before Recording

This unit can record on various types of discs. Before recording, read the following instructions and select the disc type according to your preference.

Recordable discs

This recorder can record on the following discs.

DVD-RAM	DVD-RW	DVD-R	DVD+RW	DVD+R
RAM	RW	R	RW DVD+ReWritable	RW DVD+R

• DVD±RWs and DVD-RAMs are rewritable.

• DVD±Rs are non-rewritable.

Compatibility between Samsung and other manufacturer's Recorders.

Disc Types	Recording format	Recording Device	Finalizing	Additional Recording in Samsung Recorder
DVD-RAM		Samsung	Х	Recordable
DVD-RAIVI	VR Mode	Other Company	Х	Recordable
		Samsung	finalized	Not recordable
	VR Mode	Carristing	not finalized	Recordable
		Other Company	finalized	Not recordable
DVD-RW		outor company	not finalized	Recordable
		Samsung	finalized	Not recordable
	V Mode	Samsung	not finalized	Recordable
	V WOULD	Other Company	finalized	Not recordable
			not finalized	Not recordable
		Samsung	finalized	Not recordable
DVD-R	V Mode	Cumbung	not finalized	Recordable
DVD11	V WOUL	Other Company	finalized	Not recordable
		Outer Company	not finalized	Not recordable
DVD+RW		Samsung	Х	Recordable
DVD+NVV	-	Other Company	Х	Not recordable in some cases
		Sameuna	finalized	Not recordable
DVD+R		Samsung	not finalized	Recordable
UVD+n	-	Other Company	finalized	Not recordable
			not finalized	Not recordable in some cases



Finalize

- This closes the DVD-RW/±R so no additional recording can be done.

Unfinalize

- This allows additional recording on a DVD-RW disc originally recorded on the DVD-VR329.
- A DVD-RW disc that has been recorded by
- DAO(Disc At Once) in a PC cannot be unfinalized.
 A DVD-RW disc that has been recorded in Video Mode of a different maker's recorder cannot be unfinalized.
- A DVD±R disc cannot be unfinalized.

58 - English

Recording Formats

When you insert an unused disc, the following message appears. Since available functions differ depending on the disc type, select a disc that best fits your preferences.

DVD-RAM: Use after formatting the disc.



DVD±RW/+R: When an unused DVD±RW/+R disc is first inserted, the message "Uninitialized Disc Do you want to initialize this disc?" will be displayed. If you select **Yes**, initializing will be start.

Uninitalized Disc Do you want to initialize this disc?	
Yes NO	

When using a DVD-RW disc, you can change the mode. Refer to Formatting a Disc on page 86.



DVD-R: Initializing disc is unnecessary.

DVD-RW(Video mode)/-R

- Chapters will be created automatically when you finalize recording on DVD-R/DVD-RW discs in Video mode.
- Simple editing (erasing titles/changing title name).

DVD-RAM/-RW(VR mode)

- This mode involves multiple editing functions (such as deletion of the whole title, partial deletion of a title, etc.).
- Various editing options using a created Playlist.

DVD+RW

• You can also make your own chapters on DVD+RWs and edit them using the Chapter Edit menu. (see pages 75 to 77)

Recording Mode

With the unit in Stop mode, select one of four recording modes by pressing the **REC SPEED** button repeatedly for the desired recording time and picture quality. In general, picture quality improves as the recording time decreases.

In AUTO mode, the most suitable record mode is adjusted automatically, according to remaining time on the disc and length of the timer recording.

You can select only one mode from XP, SP, LP and EP for timer recording.

Mode	Characteristic	Recording Times Data Rates
XP (high quality mode)	Select when the video quality is important.	Approx. 1 hour about 8 Mbps
SP (standard quality mode)	Select to record in standard quality.	Approx. 2 hours about 4 Mbps
LP (long recording mode)	Select when a long recording time is required.	Approx. 4 hours about 2 Mbps
EP (extended mode)	Select when a long recording time is required.	Approx. 6 hours/ about 1.2 Mbps Approx. 8 hours/ about 0.8 Mbps
AUTO	for timer recording only see page 63.	Approx 60 to 480 Min approx 0.8 to 8 Mbps

- The dual layer DVD±Rs have approximately double the capacity of single layer DVD±Rs. (See page 42.)

Unrecordable video

Pictures with copy protection cannot be recorded on this DVD Recorder & VCR.

When the DVD Recorder & VCR receives a copy guard signal while recording, recording stops and the following message appears on the screen.



Concerning Copy Control Signals

TV broadcasts that contain copy control signals may have one of the following three signal types, Copy-Free, Copy-Once and Copy-Never. If you want to record a copy-once type program, use DVD-RW with CPRM in VR Mode or DVD-RAM discs.

	Copy-Free	Copy-Once	Copy-Never
DVD-RW(Ver.1.1)	0	-	-
DVD-RW(Ver.1.1)			
with CPRM			
VR mode	0	O*	-
DVD-R	0	-	-
DVD-RAM(Ver.2.0)	0	O*	-
DVD+R	0	-	-
DVD+RW	0	-	-

Once "Copy Once" has been recorded, additional recording cannot be performed.

* compatible with CPRM.

- Content Protection for Recordable Media (CPRM)

CPRM is a mechanism that ties a recording to the media on which it is recorded. It is supported by some DVD recorders, but not by many DVD players. Each blank recordable DVD has a unique 64-bit media ID etched in the BCA(Burst Cutting Area). When protected content is recorded onto the disc, it can be encrypted with a 56-bit C2 (Cryptomeria) cipher derived from the media ID. During playback, the ID is read from the BCA and used to generate a key to decrypt the contents of the disc. If the contents of the disc are copied to other media, the ID will be absent or wrong and the data will not be decryptable.

Recording the Current Channel you are watching

DVD-RAM	DVD-RW	DVD-R	DVD+RW	DVD+R
		_		

1. Check to make sure the antenna cable is connected. 2. Check the remaining time on the disc.

DVD-RAM/DVD±RW/+R discs should be formatted or initialized in advance before beginning recording. (See page 59.)

Press the OPEN/CLOSE button and place a recordable disc on the disc tray.

Press the OPEN/CLOSE button to close the disc tray.

Wait until "LOAD" disappears from the front panel display.



Press the CH/TRK (Λ/\vee) buttons or number

buttons to select the channel you want to record.



• XP(High, approx. 1 hour) \rightarrow SP(Standard, approx. 2 hours) \rightarrow LP(Low, approx. 4 hours) \rightarrow EP(Extended Play, approx. 6 hours/8hours)



Press the REC button.

"•" is displayed on the screen and recording begins.

Press the STOP button to stop or finish a recording in progress.

 The message "Updating the information of disc. Please wait for a moment" is displayed.

Pausing / Resuming

- Press the REC PAUSE button to pause a recording in progress.
- Press the REC PAUSE button again during pause to resume recording.
- You can switch channels by pressing the CH/TRK $(\wedge \vee)$ buttons while recording pauses.
- Note
- Recording will stop automatically if there is no free space left for recording.
- Up to 99 titles can be recorded onto a DVD-RAM/-RW/-R disc, and up to 48 titles onto a DVD+RW/+R disc.
- If the power is interrupted due to power failure or other reasons, the title being recorded will not be saved onto the disc.
- Recording will stop automatically if a copy protected image is selected.
- Do not use DVD-R authoring discs with this unit.

Recording from External Devices

Follow these directions to record onto a disc or a tape from External Devices such as a Camcorder.

Connect the AV out jack of your External Device to the AV IN jack on the front or rear of your DVD Recorder & VCR using the Audio/Video Cable.

Power on your DVD Recorder & VCR and switch to AV In mode by pressing the INPUT SEL. button on the remote control.

The front panel display changes in the following sequence depending on the Video input setting in the menu.

AV1: \rightarrow Channel Number \rightarrow AV 1 \rightarrow AV 2 \rightarrow DV $_{\neg}$

S-Video: \rightarrow Channel Number \rightarrow SUPER \rightarrow AV 2 \rightarrow DV \neg

3 Press the **REC SPEED** button repeatedly to select the recording speed(quality).

 \rightarrow SP \rightarrow LP \rightarrow EP \rightarrow XP \neg

- When your DVD Recorder & VCR is in the Stop mode, start playback on your external device.
- Press the **REC** button on your DVD Recorder & VCR to start recording when the desired video is displayed from the external device.
- Press the **STOP** button on your DVD Recorder & VCR when the recording is finished.
- Also refer to the user manual for your External Devices when recording through AV In jacks on the DVD/VCR using Audio/Video cable.
 - You can record an external source through S-Video cable. (see page 24).
 - For more information on changing the Video Input from AV1 to S-Video, see page 39(Video Input).

Recording through the DV Input jack

You may control your Camcorder using the IEEE1394 (DV) interface.

Follow these directions to record onto a disc or tape from a camcorder that has a DV output jack.

- Connect the DV output jack of your camcorder to the DV input jack on the front of your DVD Recorder & VCR using a DV cable.
- Power on your DVD Recorder & VCR and switch to DV mode by pressing the INPUT SEL. on the remote control.
- Press the **REC SPEED** button repeatedly to select the recording speed(quality).

ightarrow SP \rightarrow LP \rightarrow EP \rightarrow XP \neg

If the input is set to DV, a playback/record menu that enables camcorder control appears on the top of the screen.



- 5 Select the Play icon on the upper part of the screen to playback the camcorder and find the starting position to copy.
- 6 To start recording, Press the ◄► button to select rec(●) icon in the top side of the screen, then press the ENTER button. You can press the REC button on the remote control to start recording. To display playback related icons on the screen, press either direction button on the remote control.
- Press the **STOP** button on your DVD Recorder & VCR when the recording is finished.
- Note
- Some camcorders may not work with your DVD Recorder & VCR even if they have a DV output jack.
- Also refer to the user manual for your camcorder when recording through the DV jack.

Making a One Touch Recording (OTR)



One-Touch Recording (OTR) allows you to add recording time in preset increments up to 4 hours by pressing the **REC** button repeatedly.

- Press the CH/TRK (A/V) buttons or number buttons to select the channel to record. If you want to record through a connected external component, press the INPUT SEL. button to select an appropriate external input(AV1, AV2 or DV).
 - CATV channel: 1 to 125
 - TV channel: 2 to 69
- 2 Press the **REC** button to start recording.

While in Record mode, press the **REC** button again to activate the One-Touch Recording (OTR).

- Record length 0:30 appears on the On-Screen Display and the DVD Recorder & VCR will record for exactly 30 minutes.
- Recording

Continue pressing **REC** button to add recording time in preset increments up to 4hours.

 \rightarrow 0:30 \rightarrow 1:00 \rightarrow 1:30 \rightarrow 2:00 \rightarrow 3:00 \rightarrow 4:00 \rightarrow Off -

• The DVD Recorder & VCR stops recording automatically when the time has elapsed.

To stop recording

Press the **STOP** (■) button. The message "Press STOP button once more to cancel Timer Record." is displayed. Press the **STOP** (■) button again. The message "Updating the Information of disc. Please wait for a moment." is displayed.



 The timer counter decreases by the minute from 4:00 to 0:00, then the DVD Recorder & VCR stops recording.

Making a Timer Recording

DVD-RAM OVD-RW OVD-R

The clock (Setup – Clock Set) must be set before proceeding with a timer recording. (See page 30)

Press the **OPEN/CLOSE** button, and place a recordable disc on the disc tray.

- Press the OPEN/CLOSE button to close the disc tray. Wait until "LOAD" disappears from the front panel display.
- With the unit in Stop mode, press the **MENU** button.
- Press the ▲▼ buttons to select **Timer Rec.**, then press the **ENTER** or **>** button.

DVD-Record	er	Ti	mer Record
OVD-RAM(VR)		
Title List	Timer Recor	d	►
🔒 Playlist	Scheduled R	lecord List	•
📀 Disc Manager			
🚯 Timer Rec.			
🔅 Setup			
평 Сору			
<≎ MOVE	€ ENTER		ШЕХІТ

Press the ▲▼ buttons to select **Timer Record**, then press the **ENTER** or ► button. You can go to the Timer recording screen directly by pressing the **TIMER REC** button. The Timer Recording screen is displayed.



- 6
- Fill in the items using the $\blacktriangle \lor \blacklozenge \lor$ buttons.
- ▲ ► : Moves to the previous/next item,
 ▲ ▼ or 0~9 : To set or change items in the Scheduled Record List Menu.
- To : Select the media to record (DVD or VCR).
- Source : The video input source (AV 1, AV 2), or the broadcasting channel you want to make a timer recording from.
- Date: Date that the timer recording starts
- There are three options when setting the date. see below:
- ① To make a recording on a specific date, press the ▲▼ or number buttons until the date you want appears.

No. 01					
To	Source	Date	Start	End	Mode
DVD	CH06	 	03:05 AM	05:05 A	M SP
Record	able Time	00:45	SP		

② To make a recording at the same time every day (Mon-Fri), press the ▲▼ buttons until Mon-Fri appears:



③ To make a recording on a specific day of the week(Sun's-Sat's), press the ▲▼ buttons until Sun's....Sat's appears:



• Start/End Time : Start and end time of the timer recording.

Recording mode (DVD)

AUTO : Select when you want to set video quality automatically. In AUTO mode, the most suitable record mode is adjusted automatically, according to remaining time on the disc and length of the timer recording.

You can selected only one mode from XP, SP, LP and EP for timer recording.

- **XP** (high quality) : Select when audio and video qualities are important. (Approx. 1 hour)
- SP (standard quality) : Select to record in standard quality. (Approx. 2 hours)
- LP (low quality) : Select when a long recording time is required.(Approx. 4 hours)
- EP (extended mode) : Select when a longer recording time is required. (Approx.6 hours at 1.2 Mbps or Approx.8 hours at 0.8 Mbps)



 When you are recording at EP mode on a DVD-RW(V)/-R disc, it may not record for the full 6 or 8 hours because the unit uses the VBR(Variable Bit Rate) ENCODING system.
 For example, if you record a program with a lot of action, it uses a higher bit rate which in turn consumes more disc memory.

Recording mode (VCR)

- AUTO : Select when you want to set video quality automatically. The auto quality depends on remaining time of VCR tape.
- SP : Standard Play, for best picture quality.
- **SLP** : Super Long Play, for maximum recording time (3 times SP).

7 Press the **ENTER** button.

 O will appear on the front panel. It means that a timer recording is registered.

If the timer settings overlap

The programs are recorded in order of priority. If timer recording is set for the first program and then again for the second program and both programs overlap, the following message will appear on the screen: "This setting is identical with 1,2." The message shows that the first program has priority. After recording of the first program is complete, the second program starts being recorded.

To exit without saving the current setting

Press the **MENU** or **TIMER REC** button.

To return to the previous menu

Press the **RETURN** button if you don't want to set a timer recording.

Turn the power off to finish the timer recording.
● will blink if disc or tape is not inserted.

 The timer recording time may differ from the set time depending on disc status and overall timer recording status (for example, recording times overlapping, or when the previous recording ends within 3 minutes before the start time of the next recording.)

Editing the Scheduled Record List ()) /D+B

D-RAM	DVD-RW	DVD-R	DVD+RW	D

Follow these directions to edit the timer record list.

Press the MENU button.

Press the ▲▼ button to select Timer Rec., then press the ENTER or ▶ button.



Press the ▲▼ button to select Scheduled Record List, then press the ENTER or ▶ button.





Press the $\blacktriangle \nabla$ button to select the number of the scheduled record list you want to edit, then press the ENTER or ▶ button.

• The Edit and Delete items are displayed.



- Press the ▲▼ button to select Edit, then press 5 the ENTER button.
 - The Timer Recording screen is displayed. Edit the items you want to modify. See the Timer Recording section for more information on Timer Recording Input items. (See page 63)



Press the ENTER button to confirm the edited setting.

b

Press the MENU button after finishing the operation. The menu screen will disappear.

Deleting the Scheduled Record List



Follow these directions to delete a title from the timer record list.

Press the MENU button.

Press the ▲▼ button to select **Timer Rec.**, then press the ENTER or ▶ button.

DVD-Record	er	т	imer Record
OVD-RAM	VR)		
Title List	Timer Reco	rd	►
🛃 Playlist	Scheduled I	Record List	•
📀 Disc Manager			
Timer Rec.			
🙀 Setup			
🐯 Сору			
<≎ MOVE	⊕ enter		ШЕХІТ

3

Press the ▲▼ button to select **Scheduled Record List**, then press the **ENTER** or ▶ button.



Press the ▲▼ button to select the number of the scheduled record list you want to delete, and then press the **ENTER** button.

• The Edit and Delete items are displayed.





Press the **▲**▼ button to select **Delete**, then press the **ENTER** or **▶** button.

• You will be prompted with the delete confirm message such as "Do you want to delete 'No.01'?".



6 Press the ◀ ► buttons to select Yes, then press the ENTER button.

• The selected title will be deleted from the list.

Press the **MENU** button after finishing the operation. The menu screen will disappear.



You can not delete programs that are currently being recorded.

Basic VCR Recording

Before starting

Check TV channel and Antenna connections.
 Check the remaining time on the tape.

pressing the •(REC) button repeatedly.

You can record a TV show in progress by inserting a blank tape and pressing the $\bullet(REC)$ button. You can even add time in preset increments up to 4 hours by

Note

CAUTION

Be sure your videotape has a Record Safety Tab. If the tab is missing, you can cover the opening with a small piece of tape.

Warning: Do not cover this opening unless you are sure you want to record over the tape.

Insert a blank VHS tape into the VCR deck.Make sure the tape is long enough to record the entire program.

Press the Number buttons or the CH/TRK (^/V) buttons to select the desired channel. Press the INPUT SEL. button to select AV 1, AV 2 or DV if recording from an external device connected to the input jacks of the recorder.

B Press the **REC SPEED** button on the remote control to set the Record Speed to one of the following options:

SP – Standard Play, for best picture quality.
SLP – Super Long Play, for maximum recording

The selected Record Speed will appear on the front panel and on-screen displays.

Maximum Recording Time - SP vs. SLP

time (3 times SP).

Tape Length	SP (Standard Play)	SLP (Super Long Play)
T-120 Approx. 2 hrs App		Approx. 6 hrs
T-160	Approx. 2hrs 40 mins	Approx. 8 hrs
T-180 Approx. 3 hrs		Approx.9 hrs



Note

When you watch or record on the VCR during DVD Recording, some function buttons may not operate.

The message "This function is not available." will be displayed.

4 Press the \bullet (**REC**) button on the remote control or front panel.

For options while recording is in progress, see "Special Recording Features".

5 Press the **STOP** button to stop or finish a recording in progress.

Pausing / Resuming

- Press the REC PAUSE button to pause a recording in progress.
- Press the REC PAUSE button again during pause to resume recording.
- You can switch channels by pressing the CH/TRK (\wedge/ \vee) buttons while recording pauses.



Press **INFO** button on the remote control. Following information will be displayed. (Current deck status, recording speed, remaining time, input channel, current time.)



Special Recording Features

While a recording is in progress, you can watch a different media, or add recording time in preset increments. (for example, you can watch VCR playback while recording from a DVD and vice-versa)

To Watch a Different Channel from the One being Recorded

When you watching through the Antenna input during recording, Press the TV/VCR button on the remote control. Change the channel you want to watch with the TV's remote.



Watch a different media during recording

You can watch a DVD during VCR recording or watch a Video tape during DVD recording.

- During VCR recording, insert a DVD in the DVD deck. The output will automatically change to the DVD and start playback.
- During DVD recording, insert a Video tape in the VCR deck. The output will automatically change to the VCR and start playback. (Only if tape is missing the safety tab)

To Add Recording Time

Refer to the One-Touch Recording (OTR). (See page 62)

4 Recording on the DVD and VCR at the same time

You can record on the DVD and VCR at the same time, but both modes must be set up to record separately.

- Press the **DVD/VCR** button to set the unit to DVD or VCR mode.
- Choose AV input mode (CH, AV1, AV2 or DV). for DVD or VCR.
- Choose REC mode for DVD or VCR.
- Press REC button for DVD or VCR.
- K
- When the DVD Recorder & VCR is connected to your TV using an S-Video or component video cable, the video tape's playback screen will not be displayed during DVD recording.
- You cannot record different channels at the same time.
- The DVD and VCR cannot start recording at the exact same time. You must set one mode to start recording, then the other.



 DVD-RAM
 DVD-RW
 DVD-R
 DVD-RW

You can copy from the DVD to VCR or VCR to DVD. Check the remaining time on the tape and Disc.

To copy from DVD to VCR



With the unit in Stop mode, press the **MENU** button.



Press the **▲**▼ buttons to select **Copy**, then press the **ENTER** or **▶** button.



3

Press the ▲▼ buttons to select DVD --> VCR, then press the ENTER or ► button.



Press the ▲▼ buttons to select **Edit Copylist**, then press the **ENTER** or ► button.



To copy from "Edit Copylist", you need to make a copylist in advance.

Select "New Copylist" and create the new playlist. (See pages 78)

If you want to copy directly, choose "Direct Copy". On DVD-RW(V)/DVD+RW/±R disc, you can only use Direct copy function.



Press the ▲▼ buttons to select desired copylist, then press the **ENTER** or ► button.

DVD-Recorder		Edit Copylist
OVD-RAM(VR)		
 JAN01/2006 12:00 AM I Scene JAN01/2006 12:00 AM 	No. Title 01 JAN/01/2006 02 JAN/01/2006	Play Rename Edit Scene Copy Delete
<> ♦ MOVE @ EN	ITER のRETU	IRN EXIT



Press the \blacktriangle buttons to select **Copy**, then press the **ENTER** or \triangleright button.



Direct copy DVD to VCR

- Insert a DVD disc you want to copy.
- Insert a VHS tape.
- Press the VCR copy button on front panel or remote control (TO VCR).
- To stop recording, press the STOP button.



Copy function is not allowed in progressive scan mode.

To copy from VCR to DVD

With the unit in Stop mode, press the **MENU** button in stop mode.

2

Press the ▲▼ buttons to select **Copy**, then press the **ENTER** or ► button.

DVD-Recorder			Сору
OVD-RAM(VR)		
Title List	DVD>VCR		►.
Playlist 🖌	VCR>DVD		•
Oisc Manager			
Cartimer Rec.			
🔅 Setup			
ଞ୍ଚି:Copy			
<≎ MOVE	@'ENTER		ШЕХІТ



4

Press the ▲▼ buttons to select VCR-->DVD, then press the ENTER or ► button.



Recording

You can use the ►**||**, **|**← or ►►**|**, ← or ►► buttons to search for the Start position. Press the **ENTER** button at the start point.



5

You can use the ►II, I◄ or ►►I, ◄ or ►► buttons to search for the end position. Press the ENTER button at the end point.

- A copylist will be generated.
 Repeat the above steps to create the copylist.
- In VCR mode, the copylist cannot be saved.



6

Press the ▲▼ buttons to select desired copylist, then press the **ENTER** or ► button.

DVD-Recorder		VCR	>DVD
OVD-RAM(VR)			
© 00:01:07 T STOP	No. Start 01 00: 00: 37 02:: Ci	End (Play Copy Delete	Edit
↔ MOVE @'ENTE	ER PRET	URN III) EXIT

Press the ▲▼ buttons to select **Copy**, then press the **ENTER** or ► button.



- The VCR will fast forward, searching for a start position and then automatically start a copy.
- The Start and End points may not match up exactly.
- If you want to copy all content, select Copy All.

Direct copy VCR to DVD

- Insert the VHS tape you want to copy.
- Insert a recordable DVD disc.
- Press DVD copy button on front panel or remote control(TO DVD).
- To stop recording press the STOP button.

Editing

Playing the Title List

This section introduces basic functions of DVD editing and explains both edit functions for the recording on a disc and edit functions for the entire disc.

1 11.9 11.9 11.0 2.00	
Basic Editing (Title List)	71
Renaming(Labeling) a Title	71
Locking(Protecting) a Title	72
Deleting a Title	73
Deleting a Section of a Title	73
Editing a Chapter	75
Dividing a Title	77
Advanced Editing (Playlist)	78
Creating a playlist	78
Playing Titles in the Playlist	79
Renaming a Playlist Title	79
Editing a Scene for the Playlist	80
Copying a Playlist Title to the VCR	83
Deleting a Playlist Title from the Playlist	84
Disc Manager	84
Editing the Disc Name	84
Disc Protection	85
Formatting a Disc	86
Finalizing a disc	86
Unfinalizing a disc (V/VR mode)	87
Delete All Title Lists	88
Edit Compatible	
1	



Follow these instructions to play back a scene from the Title List.

Using the TITLE LIST button

Press the **TITLE LIST** button. The Title List screen is displayed.



2

Press the ▲▼ buttons to select a title you want to play from Title List, and then press the **PLAY** button.

The selected title will be played back.

To stop title play, press the STOP button.
 To return the title list screen, press the TITLE
 LIST button.

Using the MENU button

Press the MENU button.



Editing

Press the ▲▼ buttons to select **Title List**, then press the **ENTER** or ► button twice. The Title List screen is displayed.



3 Press the ▲▼ buttons to select a Title, then press the ENTER or ► button.

The Edit menu is displayed:Play, Rename, Delete, Edit, Protection(See pages 71~74)



Press the ▲▼ buttons to select **Play** to play the title list, then press the **ENTER** button. The selected title will be played back.



ting

Press the **STOP** button to stop playing. To return the title list screen, press the **TITLE LIST** button.



5

You can also play a recorded program by pressing the ANYKEY button.



- Press the ▲▼ buttons to select **Title**.
- Press the ◀ ► buttons to select to play the title list, then press the ENTER button.

Title List Screen Elements



- ① Playback screen for recorded titles.
- (2) Information window for the selected title: Title name, recording date, lock status, recording mode
- Recorded title No.
- ④ Recorded title name
- ⑤ Recording Length (i.e., the playing time)
- Edit menu
 Play: Plays the selected title.
 Rename: Changes the name of a selected title.
 Delete: Deletes the selected title from the list.
 Edit: Deletes a section of title.
 Protection: Locks or unlocks the selected title.
- Button display
- 🕥 🔳 This m

Note

- This may depend on the disc type.
- DVD-RW(V)/DVD+RW/±R has limited editing function.

Free Space Function

This function is only available with DVD+RW discs. If existing titles are deleted, new free space will be created.

When you operate free space function, on-air TV images will appear on the left side of the title list.



Press the **TITLE LIST** button. The Title List screen is displayed.

Or use the **MENU** button.

- Press the MENU button.
- Press the ▲▼ buttons to select **Title List**, then press the **ENTER** or ► button twice.



2

Press the $\blacktriangle \forall$ buttons to select a Title you want to delete, then press the **ENTER** or \triangleright button.





Press the $\blacktriangle \lor$ button to select **Delete**, then press the **ENTER** or \triangleright button.



 You will be prompted with the confirmation message 'Do you want to delete?'.



Press the ◀ ► buttons to select **Yes**, then press the **ENTER** button.

The selected title has been deleted and Free Space is displayed.



• New free Space will be created equal to the length of the deleted title.

- Recording a title

Press the ▲▼ button to select **Free Space**, then press the **ENTER** or ▶ button.

On-air TV images will appear on the left side of the title list.





Basic Editing (Title List)

Renaming(Labeling) a Title

Follow these instructions to rename a title list name, i.e., to edit the title of a recorded program.





Press the **TITLE LIST** button. The Title List screen is displayed.

Or use the MENU button.

- Press the MENU button.
- Press the ▲▼ buttons to select Title List, then press the ENTER or ► button twice.



2

Press the ▲▼ buttons to select a title you want to rename from the Title List, then press the ENTER or ► button.



Editing



Press the ▲▼ buttons to select **Rename**, then press the **ENTER** or ► button. The Rename screen is displayed.





Select the desired characters using the ▲▼ ◀ ► buttons, press the ENTER button.



- Back Space: Moves the cursor one position backwards.
- **Space:** Enters a blank and moves the cursor one forward (to the right).
- **Delete:** Deletes the character at the cursor position.
- Clear: Deletes all the character inputs.
- Save: Registers the character inputs.

Press the $\blacktriangle \lor \blacklozenge \lor$ buttons to select Save, and then press the **ENTER** button.

The changed title name is displayed in the title field of the selected title.

DVD-RAM(VR)				Title	List
間 Sport(A1)					3/4
	No.	Title		Length	Edit
A	01 J <i>i</i>	AN/01/2006	12:00	00:00:11	
AND TO A	02 J.	AN/01/2006	12:30	00:00:09	
131-27-87 B	03 S	port(A1)		00:01:36	
Sport(A1)	04 J <i>i</i>				
Ø JAN/01/2006					
ar XP					
↔ MOVE ⊕' ENT	ER	の RETU	JRN	ШEХ	ат

Locking(Protecting) a Title

Follow these instructions to lock a title to protect it from accidental deletion.



- Press the TITLE LIST button.
 - The Title List screen is displayed.
 - Or use the **MENU** button.
 - Press the MENU button.
 - Press the ▲▼ buttons to select **Title List**, then press the **ENTER** or ► button twice.

OVD-RAM(VR)				Title	List
間 JAN/01/2006					1/4
20	No.	Title		Length	Edit
A. 244	01 J <i>i</i>	AN/01/2006	12:00	00:00:11	
AND CONTRACT	02 J/				
100 00 00 00 00 00 00 00 00 00 00 00 00	03 J <i>i</i>				
JAN/01/2006 12:00 AM CH1	04 J/	AN/01/2006	01:30	00:00:11	
Ø JAN/01/2006					
er SP					
I ↔ MOVE @'ENT	ER	ဂ RETL	JRN	ШEХ	лт

Press the ▲▼ buttons to select a title you want to protect in the Title List, then press the ENTER or ▶ button.

OVD-RAM(VR)		Title List
間 JAN/01/2006		3/4
AN01/2006 12:00 AM CH1 O JAN01/2006	No. Title 01 JAN/01/2006 02 JAN/01/2006 03 JAN/01/2006 04 JAN/01/2006	Denome
A MOVE ⊕ ENTI	ER 🕂 RETU	

3 ^P

Press the $\blacktriangle \lor$ buttons to select **Protection**, then press the **ENTER** or \blacktriangleright button.

⊙ DVD-RAM(VR)	Title List
間 JAN/01/2006	5/31
JAN01/2006 12:00 AM CH1 JAN01/2006 JP	Title Protection :
◆ MOVE @ ENTER	ဂ RETURN 🔟 EXIT

Press the < ► buttons to select On, then press the ENTER button. The lock icon on the information window for the selected title changes to the locked status. (a → a)


Deleting a Title

Follow these instructions to delete a title from the Title List.





Press the **TITLE LIST** button. The Title List screen is displayed.

- Or use the **MENU** button.
- Press the **MENU** button.
- Press the ▲▼ buttons to select Title List, then press the ENTER or ► button twice.

盽 JAN/01/2006	1				1/4
	No.	Title		Length	Edit
A	01 J	AN/01/2006	12:00	00:00:11	۲.
and the second	02 J	AN/01/2006			
36-3-6-300	03 J	AN/01/2006			
JAN/01/2006 12:00 AM CH1	04 J	AN/01/2006			Þ
Ø JAN/01/2006					
∎r SP					

Press the ▲▼ buttons to select a title you want to delete in the Title List, then press the ENTER or ▶ button.





Press the ▲▼ buttons to select **Delete**, then press the **ENTER** or ► button.

You will be prompted with a confirmation message.

DVD-RAM(VR), DVD-RW(VR mode) : Since Playlist is present, the message 'Do you want to delete? (Related playlists may be deleted.)' is displayed.



DVD-RW(Video mode),DVD+RW, DVD±R : Since Playlist is not present, the message 'Do you want to delete?' is displayed.



• The message may depend on the type of disc.

Press the **◄** ► buttons to select **Yes**, then press the **ENTER** button.

You cannot delete a protected title. If you want to delete a protected title, select Off in the Title Protection menu.

Note

- Once a title is deleted from the Title List it cannot be recovered.
- Once DVD±R, DVD-RW is finalized, it cannot be deleted.
- With DVD±R, titles are only deleted from the menu, however, the Title remains physically on the disc.

Deleting a Section of a Title

Follow these instructions to delete a section of a Title List title.



Press the **TITLE LIST** button.

The Title List screen is displayed.

Or use the **MENU** button.

- Press the **MENU** button.
- Press the ▲▼ buttons to select Title List, then press the ENTER or ► button twice.



Press the ▲▼ buttons to select a title you want to delete from the Title List, then press the ENTER or ▶ button.



3

Press the $\blacktriangle \lor$ buttons to select **Edit**, then press the **ENTER** or \triangleright button.

The Edit Title List screen is displayed.



Press the ENTER button at the starting point.
 The image and starting point time are displayed in the section deletion starting point window.
 Edit Title List Screen Elements





- 1 Playback bar
- 2 Playtime
- 3 Section deletion starting point window and time
- 4 Section deletion end point window and time
- Select the start and end points of the section you want to delete using the playback related buttons.
- Playback related buttons: (►II,I◄◄,◄◄,►►).

5 Press the **ENTER** button at the end point. The image and end point time are displayed in the Section deletion ending point window.



6

Press the ◀ ► buttons to select **Delete**, then press the **ENTER** button.





7

Press the ◀ ► buttons to select **Yes**, then press the **ENTER** button. The selected section has been deleted.

To return to the Title List screen, press the ◀► buttons to select Return.

- Note
- The length of the section to be deleted must be at least 5 seconds long.
- If the length of the section to be deleted is less than 5 seconds, you will be prompted with the message 'The range is too short.'.
- If the end time precedes the starting time, you will be prompted with the message 'End point cannot be marked earlier than start point.'.
- The section cannot be deleted when it includes a still picture.
- Press the MENU button after the operation has finished.
 - The Title List screen will disappear.

Editing a Chapter

You can make your own chapters on DVD+RWs and edit them using the Chapter Edit menu.



Press the **TITLE LIST** button. The Title List screen is displayed.

- Or use the **MENU** button.
- Press the **MENU** button.
- Press the ▲▼ buttons to select **Title List**, then press the **ENTER** or ► button twice.

III JAN/01/2006					1/4
	No.	Title		Length	Edit
1 - 20 0	01 J/	AN/01/2006	12:00	00:04:48	•
SAN DE	02 J/	AN/01/2006	12:30	00:01:47	
150 - Star 1878	03 J <i>i</i>				
JAN/01/2006 12:00 AM CH1	04 Fr	ree Space		01:13:08	Þ
D JAN/01/2006					
∎° SP					

Press the ▲▼ buttons to select a title containing a chapter you want to edit, then press the ENTER or ► button.



Press the ▲▼ buttons to select **Chapter Edit**, then press the **ENTER** or ► button. The Chapter Edit screen is displayed.



Chapter Edit Screen Elements



- 1. Current chapter number and status
- 2. Playback bar
- 3. Playtime
- 4. Chapter Edit menu

Adding a chapter



Select the point where you want to add a chapter using the playback related buttons, then press the ENTER button at that point.

Each time you press the **ENTER** button, a new chapter will be added.





Press the ◀ ► buttons to select Return, and then press the ENTER button. The edited title will now have the chapter you added.





• You can make up to 99 chapters in a title and 254 chapters in a disc.

- The edited chapters are shown on existing DVD players only after performing the Edit Compatible function. (See page 89)
- If you add a chapter, the title is divided at that point; If you add a chapter onto a title that has only one chapter, it creates another chapter.

Follow steps 1 to 3 in page 75



Select a chapter you want to delete using the playback related buttons.



- Press the \blacktriangleleft **>** buttons to select Delete, and then 5 press the ENTER button. The selected chapter will be deleted.



- To finish the operation, select Return using the buttons then press the ENTER button.
- First chapter can't be deleted.
- Delete menu is not available if there is one chapter in the selected title.
- When deleting a chapter, only the chapter marker is actually deleted, not the recorded video.
- Deleting a chapter can't be canceled.

Hiding a chapter

Follow steps 1 to 3 in page 75



Note

Select a chapter you want to hide using the playback related buttons.



• Playback related buttons: (**)**

Press the ◀ ► buttons to select Hidden, and then press the ENTER button.

The selected chapter is hidden.

⊙ DVD+RW	Chapter Edit
Chapter : 2/4 Hidden	
Add Delete Hidden Delete	00:15:00 All Return
・ ・ ・ MOVE @'ENTER のRETURN	

• To finish the operation, select Return using the buttons then press the ENTER button.

- If there is only one chapter, it can't be hidden. ■ Hidden/Show menu is not available if there is
- Note
 - one chapter in the selected title.
 - The hidden chapters are not shown on the existing DVD players.
 - Hidden menu is changed to Show with a chapter playing back. You can make the hidden chapter shown by pressing the ENTER button at Show menu.

Deleting all chapters

Follow steps 1 to 3 in page 75



Press the ◀ ► buttons to select Delete All, and then press the ENTER button.





Press the ◀ ► buttons to select Yes, and then press the ENTER button.



When deleting a chapter, only the chapter marker is actually deleted, not the recorded video.

Delete All menu is not available if there is one chapter in the selected title.

Dividing a Title

Follow these instructions to divide a long title into several titles.



Press the TITLE LIST button.

The Title List screen is displayed.

- Or use the **MENU** button.
- Press the **MENU** button.
- Press the ▲▼ buttons to select **Title List**, then press the **ENTER** or ► button twice.



Press the ▲▼ buttons to select a title you want to divide from the Title List, then press the ENTER or button.



Press the ▲▼ buttons to select **Divide Title**, then press the **ENTER** or ► button. The Divide Title List screen is displayed.





Select the point you want to divide using the playback related buttons, then press the **ENTER** button.



- Playback related buttons: (►II,I◄◄,◄◄,►►).
- **5** ^F

Press the **◄** ► buttons to select **Divide**, then press the **ENTER** button.





Press the ◀ ► buttons to select **Yes**, then press the **ENTER** button.

The selected title has been divided into two titles.





If the point length to be divided is less than 5 seconds, you will be prompted with the message 'The range is too short.'.

Press the MENU button after the operation has finished.

The Title List screen will disappear.

Advanced Editing (Playlist)



Creating a Playlist

Follow these instructions to create a new playlist title from a recorded title.



With the unit in Stop mode, press the **MENU** button.

Press the ▲▼ buttons to select **Playlist**, then press the **ENTER** or ▶ button.



3

Press the ▲▼ buttons to select **New Playlist**, then press the **ENTER** or ► button. The Make Scene screen is displayed.



liting

Δ

Press the ENTER button at the start point.



- The image and time at the start point are displayed on the Start window.
- The yellow-colored selection bar moves to the End item.
- Select the starting point of the section from which you want to create a new scene using the playback related buttons (►II,I<<,...>I,<,...>I,<...>I,<...>.

5

Press the ENTER button at the end point.



- The image and end point time are displayed in the End window.
- The yellow-colored selection bar moves to the Make icon.

- To make a new playlist -



Press the ◀ ► buttons to select **Make**, then press the **ENTER** button.

A new Scene will be added to the current Playlist. A new Make Scene screen is displayed.



- You can check and see all the scenes on Edit Playlist screen.
- Repeat steps 1~6 if you want to make a new playlist.
- Repeat steps 4~6 if you want to add scenes to the playlist.

- To return to Edit Playlist menu -

7 F

Press the ▲▼ buttons to select **Return**, then press the **ENTER** button. The Edit Playlist screen is displayed.



8

Press the **MENU** or **PLAY LIST** button after the operation has finished. The Edit Playlist screen will disappear.

Ш ЕХГ

 \mathbf{k}

- You can create up to 99 playlist titles.
- Note Depending on the kind of disc, the displayed screen may have a slight difference.

Playing Titles in the Playlist

Follow these instructions to play the playlist titles.



Press the PLAY LIST button with the disc stopped. The Edit Playlist screen is displayed.

Or use the **MENU** button.

- Press the MENU button with the disc stopped. Press the ▲▼ buttons to select Playlist, then press the ENTER or ▶ button.
- Press the ▲▼ buttons to select Edit Playlist, then press the **ENTER** or ▶ button.



Press the ▲▼ buttons to select the title you want to play from the Playlist, then press the ENTER or ▶ button.

The Edit Playlist menu is displayed : Play, Rename, Edit Scene, Copy, Delete.



Press the ▲▼ buttons to select Play, then press the **ENTER** or ▶ button.

The playlist titles will be played back.







Press the STOP button to stop playing. The screen returns to the Edit Playlist screen.

Renaming a Playlist Title

Follow these instructions to rename a playlist title, i.e. to edit the title of a playlist title.



Press the PLAY LIST button with the disc stopped. The Edit Playlist screen is displayed.

Or use the MENU button.

- Press the MENU button with the disc stopped.
- Press the ▲▼ buttons to select Playlist, then press the ENTER or ▶ button.
- Press the ▲▼ buttons to select Edit Playlist, then press the ENTER or ▶ button.





Press the ▲▼ buttons to select the title you want to rename from the Playlist, then press the **ENTER** or ▶ button.

The Edit menu is displayed : Play, Rename, Edit Scene, Copy, Delete



Editing

3

Press the ▲▼ buttons to select **Rename**, then press the **ENTER** or ▶ button.

The Rename screen is displayed.



4

Enter the desired characters using the $\blacktriangle \nabla \blacktriangleleft \triangleright$ buttons.



- This function is the same as the Rename function in renaming the title list. (See page 71.)
- The maximum number of characters that can be entered is 31.

Press the ▲▼ ◀ ► buttons to select Save, then press the ENTER button.

The changed title is displayed in the title field of the selected title.



Editing a Scene for the Playlist

Follow these instructions to edit scenes for a playlist.



Press the **PLAY LIST** button with the disc stopped. The Edit Playlist screen is displayed.

Or use the MENU button.

- Press the MENU button with the disc stopped.
- Press the ▲▼ buttons to select **Playlist**, then press the **ENTER** or ► button.
- Press the ▲▼ buttons to select Edit Playlist, then press the ENTER or ▶ button.



Press the ▲▼ buttons to select the title you want to edit from the Playlist, and then press the ENTER or ▶ button.

The Edit Playlist menu is displayed: Play, Rename, Edit Scene, Copy, Delete



2

Press the ▲▼ buttons to select **Edit Scene**, then press the **ENTER** or ▶ button. The Edit Scene screen is displayed.



4

Press the $\blacktriangle \lor \blacklozenge \lor$ buttons to select the scene you want to play, then press the **ENTER** button. The playlist title to be played is selected.



5 ^PT

Press the ENTER button.

The selected scene will be played back.



• To stop scene play, press the STOP button.

Modifying a Scene (Replacing a Scene)

To setup, follow steps 1 to 3 in page 80.



Press the $\blacktriangle \lor \blacklozenge \lor$ buttons to select the scene you want to modify, then press the **ENTER** button.



5

Press the ▲▼ buttons to select **Modify**, then press the **ENTER** button. The Modify Scene screen is displayed.





Press the **ENTER** button at the start point of the scene.



- The image and starting point time are displayed on the Start window.
- Select the starting or ending point of the section you want to modify using the playback related buttons (►II,I<<,►►I,<<,►►).



Press the **ENTER** button at the end point of the scene.



• The image and ending point time are displayed in the End window.



Press the ◀ ► buttons to select **Change**, then press the **ENTER** button.



• The scene you want to modify is changed with the selected section.

English - 81

To setup, follow steps 1 to 3 in page 80.

Press the ▲▼ ◀ ► buttons to select the scene you 4 want to move (change the position), then press the ENTER button.



Press the ▲▼ buttons to select Move, then press the ENTER button.



- A yellow selection window is displayed on the scene to be moved.
- Press the $\blacktriangle \nabla \blacktriangleleft \triangleright$ buttons to select the position to 6 which you want to move the selected scene, then select the ENTER button.



The selected scene is moved to the selected ٠ position.



 $\langle\!\!\langle$ Depending on the kind of disc, the displayed screen may have a slight difference. Note

Adding a Scene

To setup, follow steps 1 to 3 in page 80.

Δ

Press the $\blacktriangle \nabla \blacktriangleleft \triangleright$ buttons to select the scene that will have a new scene inserted before it, then press the ENTER button.

A yellow selection window is displayed on the scene to be added as the new scene.





Press the ▲▼ buttons to select Add, then press the ENTER button.

The Add Scene screen is displayed.



1		
۶		
L		

Press the ENTER button at the starting point of the scene.



- The image and starting point time are displayed in the Start window.
- · Select the end point of the section where you want to add the new scene using the playback related buttons (\blacksquare I, \blacksquare , \blacksquare).

Press the ENTER button at the end point of the scene.



- The image and time of the end point are displayed in the End window.
- To cancel, press the < ► buttons to select cancel and then press the ENTER button.

Press the ▲▼ buttons to select Add, then press the ENTER button.



• The section you want to add is inserted prior to the scene selected in step 4.

Deleting a Scene

To setup, follow steps 1 to 3 in page 80.

Press the ▲▼ ◀ ► buttons to select the scene you want to delete, and then press the ENTER button.



5

Press the **▲**▼ buttons to select **Delete**, then press the **ENTER** button.



Copying a Playlist Title to the VCR

Press the **PLAY LIST** button with the disc stopped. The Edit Playlist screen is displayed.

Or use the MENU button.

- Press the MENU button with the disc stopped.
- Press the ▲▼ buttons to select Playlist, then press the ENTER or ▶ button.
- Press the ▲▼ buttons to select Edit Playlist, then press the ENTER or ▶ button.

DVD-Recorder		Edit Playlist
OVD-RAM(VR)		
	No. Title	Length Edit
"A	01 JAN/01/2006 12:00	00:00:11 🕨
and the second	02 JAN/01/2006 12:30	00:00:09 🕨
and the second	03 Dolphin	00:01:36 🕨
JAN/01/2006 12:00 AM		
1 Scene		
Ø JAN/01/2006 12:00 AM		
<>> MOVE ⊕ ENT	ER 🖸 RETURN	



Press the ▲▼ buttons to select the title you want to copy to the VCR, and then press the **ENTER** or ▶ button.

The Edit Playlist menu is displayed: Play, Rename, Edit Scene, Copy, Delete.

DVD-Recorder		Edit Playlist
OVD-RAM(VR)		
	No. Title 01 JAN/01/2006	Length Edit 12:00 00:00:11 ►
	02 JAN/01/2006 03 Dolphin	1 Play Rename
Dolphin		Edit Scene
 2 Scene JAN/01/2006 12:00 AM 		Copy Delete
↔ MOVE @ EN1	TER ຄRETI	URN EXIT



Press the ▲▼ buttons to select **Copy**, then press the **ENTER** button.

 The title you choose is played and copied to VCR tape.





Press the **MENU** button after the operation has finished. The menu screen will disappear.



The playlist can contain up to 99 playlist titles.

Deleting a Playlist Title from the Playlist

Press the **PLAY LIST** button with the disc stopped. The Edit Playlist screen is displayed.

Or use the MENU button.

- Press the MENU button with the disc stopped.
- Press the ▲▼ buttons to select Playlist, then press the ENTER or ► button.
- Press the ▲▼ buttons to select Edit Playlist, then press the ENTER or ► button.



Press the ▲▼ buttons to select the title you want to delete from the Playlist, then press the ENTER or ► button.

The Edit Playlist menu is displayed: Play, Rename, Edit Scene, Copy, Delete





3

Press the ▲▼ buttons to select **Delete**, then press the **ENTER** button.

 You will be prompted with the delete confirmation message 'Do you want to delete?'.

DVD-Recorder	Edit Playlist
⊙DVD-RAM(VR)	
Dolphin 2 Some AMN012006 12:00 AM	Do you want to delete? Yes No
↔ MOVE @ ENTER	



Press the ◀ ► buttons to select **Yes**, then press the **ENTER** button.

It automatically returned to the Edit Playlist screen after the delete operation has finished.





💠 MOVE 🞯 ENTER 🕥 RETURN 🖽 EXIT



Editing the Disc Name

Follow these instructions to give a name to a disc.





With the unit in Stop mode, press the **MENU** button.

DVD-Recorder Title List					
⊙ DVD-RAM(VR)					
🖽 Title List	Title List		•		
🛃 Playlist					
📀 Disc Manager					
🛖 Timer Rec.					
😧 Setup					
평 Сору					
<≎ MOVE	⊕ ENTER		© EXIT		

Press the ▲▼ buttons to select **Disc Manager**, then press the **ENTER** or ▶ button.



Press the ▲▼ buttons to select **Disc Name**, then press the ENTER or ▶ button. The Edit Name screen is displayed.



Enter the desired characters using the $\blacktriangle \nabla \blacktriangleleft \triangleright$ buttons.



- This function is the same as the Rename function in renaming the title list. (See page 71.)
- . The maximum number of characters that can be entered is 31.
- 5

Press the $\blacktriangle \nabla \blacktriangleleft \triangleright$ buttons to select **Save**, then press the ENTER button. A disc name is given to the disc.

DVD-Recorder Disc Manager					
⊙ DVD-RAM(VR)					
Title List	Disc Name	: Disc	Þ		
Playlist 🖌	Disc Protection	: Not Protected	•		
🗭 Disc Manager	Disc Format		•		
Timer Rec.	Delete All Title Li	sts	۲		
- Setup					
Сору					
<⇔ MOVE	🐨 ENTER ච	RETURN III EX	IT		

- Note
 - You may need to clear disc protection before beginning editing. (see page 85)
 - Depending on the kind of disc, the displayed screen may be different.

Disc Protection

Disc Protect allows you to protect your discs from being formatted or deleted due to unintended operations.



With the unit in Stop mode, press the MENU button.

DVD-Recorder Title List						
DVD-RAM(VR)						
🖽 Title List	Title List		►			
🛃 Playlist						
🗭 Disc Manager						
🛃 Timer Rec.						
🔅 Setup						
😲 Сору						
<≎ MOVE	€ ENTER		III EXIT			



Press the ▲▼ buttons to select Disc Manager ,
then press the ENTER or ► button.

DVD-Record	Disc Man	ager			
⊙ DVD-RAM(VR)					
Title List	Disc Name	:	Þ		
Playlist	Disc Protection	: Not Protected	•		
🗭 Disc Manager	Disc Format		•		
🕀 Timer Rec.	Delete All Title Li	sts	►		
🔅 Setup					
평 Сору					
<≎ MOVE	GY ENTER 🧳	RETURN DE	хіт		







Press the ▲▼ button to select **Protected**, then press the ENTER or ▶ button.

DVD-Record	er	Disc	Manager
OVD-RAM(VR)		
Title List	Disc Name		►
Playlist	Disc Protection	: Protected	•
🗭 Disc Manager	Disc Format		►
🛃 Timer Rec.	Delete All Title L	ists	►
🔂 Setup			
🐯 Сору			
<≎ MOVE	@'ENTER #	RETURN	III EXIT

Formatting a Disc

Use these instructions to format a disc. Clear disc protection before formatting.

DVD-RAM	DVD-RW	DVD+RW

With the unit in Stop mode, press the **MENU** button.

DVD-Record	er	Title List
O DVD-RAM	VR)	
🖽 Title List	Title List	►
🛃 Playlist		
🗭 Disc Manager		
🛖 Timer Rec.		
Setup		
戦 Сору		
<≎ MOVE	@ ENTER	ШЕХІТ

Press the ▲▼ buttons to select **Disc Manager**, then press the **ENTER** or ► button.

DVD-Record	er	Disc Man	ager
OVD-RAM(VR)		
Title List	Disc Name	:	Þ
Playlist	Disc Protection	: Not Protected	•
🗭 Disc Manager	Disc Format		۲
🛃 Timer Rec.	Delete All Title Li	sts	۲
Setup			
Copy			
<≎ MOVE	⊕'ENTER €	RETURN III EX	άT

B Press the ▲▼ buttons to select **Disc Format**, then press the **ENTER** or ► button.

DVD-Record	DVD-Recorder		ager
O DVD-RAM(VR)		
Title List	Disc Name		•
🔒 Playlist	Disc Protection	: Not Protected	•
📀 Disc Manager	Disc Format		►
🛃 Timer Rec.	Delete All Title Li	sts	•
Setup			
평 Сору			
<> MOVE	@ ENTER	RETURN E	хIT

DVD-RAM/+RW

• You will be prompted with the confirmation message 'Do you want to format disc?'.



 You will be prompted with the confirmation message 'All data will be deleted. Do you want to continue?'.

DVD-RW

 You will be prompted with the confirmation message 'Choose the recording format for DVD-RW.'

DVD-Reco	rder Disc Manag	jer
OVD-RW(VR)	
Title List	Disc Name :	>
🛃 Playlist		ŀ
🗭 Disc Ma	Choose the recording format for DVD-RW.	
🛃 Timer F		ŀ
Setup	DVD-VR DVD-V	
평 Сору		
<≎ MOVE	e enter ∙∩ return @ exi	



Press the ◀ ► buttons to select **Yes**, then press the **ENTER** button. The disc is formatted.

DVD-VR and DVD-V modes are compatible with the following disc types.

	DVD-VR	DVD-V
DISC	DVD-RAM DVD-RW	DVD-RW DVD-R

Finalizing a disc

After you record titles onto a DVD-RW/DVD±R disc with your DVD Recorder & VCR, it needs to be finalized before it can be played back on external devices.



W

With the unit in Stop mode, press the **MENU** button.

DVD-Recorder Title List		Title List	
O DVD-RW(V	'R)		
🖽 Title List	Title List		•
🛃 Playlist			
📀 Disc Manager			
🛃 Timer Rec.			
🙆 Setup			
평 Сору			
<≎ MOVE	@ ENTER		III EXIT

Press the ▲▼ buttons to select **Disc Manager**, then press the **ENTER** or ► button.

DVD-Recorder Disc Manager			iger
O DVD-RW(VR)		
Title List	Disc Name	:	►
🚭 Playlist	Disc Protection	: Not Protected	•
🗭 Disc Manager	Disc Format	: DVD-VR	•
🛃 Timer Rec.	Disc Finalize		۲
Setup	Delete All Title Li	sts	•
평 Сору			
<≎ MOVE	ଙ enter ମ	RETURN EX	п

Press the $\blacktriangle \forall$ button to select **Disc Finalize**, then press the **ENTER** or \triangleright button.



You will be prompted with the message 'Do you want to finalize disc?'.



If you select Yes, you will be prompted again with the message 'Disc will be finalized. Do you want to continue?'





Press the ◀► buttons to select **Yes**, then press the **ENTER** button.

The disc is finalized.

Note

- Once a disc is finalized, you cannot delete titles from the record list.
- Once a DVD±R/DVD-RW (video mode)disc is finalized, it is playable in a standard DVD player.
- Depending on the disc type, the displayed screen may be different.
- Finalizing time may be different depending on the amount of data recorded on the disc.
- Data on the disc will be damaged if the recorder is powered off during finalize process.

Unfinalizing a disc (V/VR mode)



With the unit in Stop mode, press the **MENU** button.

DVD-Record	ler	Title List
⊙ DVD-RW(VF	R:F)	
🖽 Title List	Title List	►
Playlist		
🗭 Disc Manager		
🛖 Timer Rec.		
🔅 Setup		
평 Сору		
<≎ MOVE	@ ENTER	III EXIT



5

<⇒ MOVE

Press the ▲▼ buttons to select **Disc Manager**, then press the **ENTER** or ► button.



3

Press the \blacktriangle button to select **Disc Unfinalize**, then press the **ENTER** or \blacktriangleright button.

You will be prompted with the message 'Do you want to unfinalize disc?'.



If you select Yes, you will be prompted again with the message 'Disc will be unfinalized. Do you want to continue?'



4 Press the **◄** buttons to select **Yes**, then press the **ENTER** button. The disc is unfinalized.

Note

 A DVD-RW can be finalized or unfinalized in Video mode.

	Finalize	Unfinalize
Mark	DVD-Video(RW)	DVD-RW(V)
Operation	Same as DVD-Video	Additional recording, protection and deletion are possible.

 A DVD-RW can be finalized or unfinalized in VR mode.

	Finalize	Unfinalize
Mark	DVD-RW(VR:F)	DVD-RW(VR)
Operation	Additional recording, deletion, editing, and protection are impossible.	Additional recording, deletion, editing, and protection are possible.

Delete All Title Lists



With the unit in Stop mode, press the **MENU** button.

DVD-Recorder Title List			
O DVD-RAM	VR)		
🖽 Title List	Title List		•
🛃 Playlist			
📀 Disc Manager			
🛖 Timer Rec.			
🔅 Setup			
戦 Сору			
<≎ MOVE	⊕ ENTER		ШЕХІТ

Press the $\blacktriangle \lor$ buttons to select **Disc Manager**, then press the **ENTER** or \triangleright button.

DVD-Recorder Disc Manager			ager
O DVD-RAM	VR)		
Title List	Disc Name	:	
🛃 Playlist	Disc Protection	: Not Protected	•
🗭 Disc Manager	Disc Format		•
🛃 Timer Rec.	Delete All Title Li	sts	•
O Setup			
평 Сору			
<≎ MOVE	⊕ enter 🥠	RETURN III E	KIT

2

Press the $\blacktriangle \forall$ button to select **Delete All Title** Lists, then press the ENTER or \triangleright button.

DVD-Record	er	Disc Man	ager
OVD-RAM(VR)		
Title List	Disc Name		•
🛃 Playlist	Disc Protection	: Not Protected	•
🗭 Disc Manager	Disc Format		•
🛃 Timer Rec.	Delete All Title Li	sts	►
🔅 Setup			
🐯 Сору			
<≎ MOVE	⊕' ENTER ✓	RETURN E	KIT

 You will be prompted with the confirmation message 'Do you want to delete all title lists?'.



• When Protected Title exists: The Delete All Title List function will not operate. If there is a title containing a still picture, however, that function will not operate.

If you want to delete a protected title, disable Protect for it on the Lock item.

Press the ◄ ► buttons to select Yes, then press the ENTER button. All title lists are deleted.

Edit Compatible

For DVD+RW discs, this function needs to be performed in order to view edited chapters or titles on a standard DVD player.



1

With the unit in Stop mode, press the **MENU** button.



2

Press the ▲▼ buttons to select **Disc Manager**, then press the **ENTER** or ► button.



Press the ▲▼ buttons to select **Edit Compatible**, then press the **ENTER** or ► button.

DVD-Record	er	Disc Manager
⊙ DVD+RW	_	
Title List	Disc Name	: >
🗘 Disc Manager	Disc Format	۲
Timer Rec.	Edit Compatible	►
Setup		
Сору		
<≎ MOVE	@ ENTER ච	RETURN EXIT
DVD-Record	er	Disc Manager
OVD+RW	_	
Title List	Disc Name	: •
🗭 Disc I		
🛃 Timer 🛛 Do	you want to execute E This may take more t	
O Setur	depending on the co	
Сору	Yes	No
<>> MOVE	ଙ enter ଚ	RETURN III EXIT

- You will be prompted with the confirmation message 'Do you want to execute Edit compatible? This may take more than an hour depending on the configuration.'.
- Δ

Press the ◀ ► buttons to select **Yes**, then press the **ENTER** button to execute the edit compatible.

After performing this function, you can go to TITLE MENU screen directly by pressing the **TITLE MENU** button.



Troubleshooting

(DVD-VIDEO/DVD-RAM/DVD±RW/DVD±R)	91
Troubleshooting (DVD)	92
Troubleshooting (VCR)	93
Problems and Solutions (Display error Message)	94
Specifications	96

Troubleshooting

Specifications

▼

LIMITED WARRANTY TO ORIGINAL PURCHASER

Troubleshooting (DVD-VIDEO/DVD-RAM/DVD±RW/DVD±R)

If your product malfunctions, go through the check points below before contacting a Samsung authorized service center,

Problem	Explanation/Solution
No power.	Check whether the power cord is securely plugged into the power outlet.Did you press the power button of your DVD Recorder & VCR.
The input is displayed for a while when the power turns on.	• The DVD Recorder & VCR requires some time to initialize after it is turned on. If Quick recording function is set to on, the DVD Recorder & VCR will power on quickly, which enables you to immediately record a desired channel. (See page 41.)
Cannot record TV programs.	 Check whether the power cord is securely plugged into the power outlet. Did you set the DVD Recorder & VCR channel settings correctly? Check the free space on your DVD-RAM/DVD±RW/DVD±R disc. Check the antenna cable is connected.
Timer recording does not work properly.	 Check the recording time, end time and current time settings again. Recording will be cancelled if the power is interrupted due to a power failure or other reason during recording.
Cannot record.	 Check whether the disc is formatted. This product can record on formatted discs only. (See page 86.) Check whether your DVD-RAM/DVD±RW/DVD±R disc has a sufficient free space.
I pressed the REC button but there is no response.	 Recording is available on DVD-RAM/DVD±RW/DVD±R discs only. If a program is copy protected, you cannot record it.
I forget the password for parental lock.	 Press and hold the CH (A/V) button on the front panel of your unit for more than 5 seconds with no disc, and then press the POWER OFF/ON button. All settings including password will revert to factory settings. Do not use it if not absolutely required. (Note that this function is available only when there is no disc inserted.)
Cannot play the disc.	 Check whether the disc is inserted correctly with the label facing up. Check the regional code of your DVD disc. This DVD Recorder & VCR cannot playback some types of disc. (See page 5.)
No sound.	 Are you watching a program in slow or skip mode? If you are playing a program at a speed other than normal speed, sound is not output. (Except for forward search Playback (Fast1)) Check the connections and initial settings. Check whether the disc is damaged. Clean up the disc, if necessary. Check whether the disc is inserted correctly with the label facing up.

Troubleshooting (DVD)



Problem	Explanation/Solution
⊘icon appears on the screen.	You cannot use the operation or function due to one of the following reasons: (1) Your DVD disc does not support the feature (for example, angles) (2) You've requested a title, chapter, or scan time that is out of the correct range.
Play mode settings are different from the set- tings configured with the Setting menu.	The disc does not support all the selected functions. In this case, some settings you configure on the Setting menu may not work properly.
Cannot change the aspect ratio.	Aspect ratio is fixed for DVD disc.
No audio output.	Check whether you selected correct digital output options in the Audio Output Options menu.
No video or audio output. The disc tray is ejected after 2 to 5 seconds.	Did you move your DVD Recorder & VCR suddenly from a cold place to a warm place? In this case, do not connect the plug to the power outlet and wait for two hours. Then insert the disc and try to play back again. It will work properly when condensation has evaporated.
Angle operation does not work during playback of a DVD disc.	Angle operation is available only when the disc contains images captured at different angles.
The disc revolves, but no image or bad quali- ty images are output.	 Check whether there is damage or foreign materials on your disc. Some discs with bad manufacturing quality may not be played back. If the scene changes from dark to bright suddenly, the screen may jitter temporarily, but it is not a defect.
Desired sound language and subtitle language are not played.	Sound languages and subtitle languages are disc-specific. Only the sound and subtitle languages contained on a DVD disc are available and displayed on the disc menu.
No progressive output.	 Check whether PS() is displayed on front panel. Make sure to change the component video output using the Progressive button when the disc is stopped.
The remote control doesn't work.	 Point the remote control at the remote control sensor on your DVD Recorder & VCR. Operate within distance. (15ft) Remove obstacles between your DVD Recorder & VCR and remote control. Check whether the batteries are depleted.
Other problems	 Read the table of contents and then find and read the sections describing your problem, and follow the directions given. Turn the unit off and on. If your problem still persists, contact your nearest Samsung service center.

Troubleshooting (VCR)



Before contacting a Samsung authorized service center, perform the following simple checks.

Problem	Explanation/Solution
No power	Check that the power plug is connected to a wall outlet.Have you pressed the POWER button?
You cannot insert a video cassette	• A video cassette can only be inserted with the window side up and the safety tab facing you.
The television program was not recorded	 Check the DVD Recorder & VCR antenna connections. Is the DVD Recorder & VCR tuner properly set? Check if the safety tab is intact on the cassette.
imer recording was unsuccessful	 Re-check the recording start/stop time settings and the current time Check whether you insert a tape which has enough time record
No playback picture or the picture is distorted	Check to see if you are using a prerecorded tape.
You cannot see normal broadcasts Noise bars or streaks on playback	 Check the tuner/external setting. It should be on tuner. Check the TV antenna connections. Press the CH/TRK (^/V) buttons to minimize this effect.
When the ►II button is pressed during playback, the still picture has severe "noise bar" streaks	 A still picture may have "noise bars", depending on the condition of the tape. Press the CH/TRK (∧/∨) buttons during slow motion to minimize this effect.
Video Head Cleaning	 If poor pictures appear on a variety of cassettes, the video heads may need cleaning. This is not a common problem and unless it appears, the heads should not be cleaned. When cleaning the video heads, read all instructions provided with the head cleaning cassette. Incorrect head cleaning can permanently damage the video heads.

If you are unable to solve the problem after reading the above instructions, note:

- The model and serial number on the rear of your DVD Recorder & VCR
- The warranty information
- A clear description of the problem

Then contact your nearest SAMSUNG authorized service center.

Problems and Solutions (Display error Message)



Before contacting a Samsung authorized service center, perform the following simple checks.

Problem	Explanation / Solution	
You cannot record a copy protected movie.	• You can't record the video since it is protected by copyright.	
You cannot record. This disc is protected.		
This disc cannot be formatted (the disc is protected).		
This disc cannot be renamed (the disc is protected).	 Disc you are using is protected. To record on this disc or use this function, cancel the disc protection function. Refer to 	
This disc cannot be finalized (the disc is protected).	page 85.	
This [Menu] is not available (the disc is protected).		
The disc cannot be played, Please check the regional code of the disc.	 The disc does not match the regional code for your area and cannot be played on this device. 	
This disc cannot be formatted. Please check the disc.		
You could not format the disc because of error detection.		
You could not finalize the disc because of error detection.	Make sure there are no scratches or dirt on the disc.	
You could not unfinalize the disc because of error detection.		
The disc cannot be played, Please check the TV system.	 The disc is PAL format and cannot be played on this unit. 	
The disc can be neither played nor recorded.	. Make ours there are no corotables or dirt on the disc	
The disc cannot be played, Please check the disc.	Make sure there are no scratches or dirt on the disc.	
If the disc has invalid information, no more titles can be recorded. Please format the disc beforehand.	 You can't use the disc because it contains errors from previous recordings. Use the disc after formatting. 	

Problems and Solutions (Display error Message)



Problem	Explanation / Solution
Error is detected on the disc.	 You can't use the disc because it contains errors from previous recordings. Use the disc after formatting.
System error is found. Please try it again after turning off the power.	 When operating, errors happen. Turn off the device. (To turn off, press and hold the power button on the front of the device for 10 seconds.) After turning off, press the Open button and remove the disc from the device.
The DV device is not connected.	 Make sure the DV device is connected properly to the DV connection Jack. If it is connected properly, turn it off and on once again.

If you are unable to solve the problem after reading the above instructions, note:

- The model and serial number on the rear of your DVD Recorder & VCR
- The warranty information
- A clear description of the problem

Then contact your nearest SAMSUNG authorized service center. Call 1-800-SAMSUNG for a center near you.

Specifications



	Power requirements	120V AC, 60Hz	
	Power consumption	28 Watts	
General	Weight	8.75 lb	
	Dimensions	16.9 in(W) x 10.6 in(D) x 3.1 in(H)	
	Operating temp.	+41°F to +95°F	
	Other conditions	Keep level when operating. Less than 75% operating humidity	
	Video 1.0 V p-p at 75Ω load, sync negative		
		S-Video input (Y: 1.0Vp-p, C: 0.286Vp-p at 75 Ω load)	
Input	Max. Audio Input Level	2Vrms	
mput	DV Input	IEEE 1394(4p) compatible jack	
	Receivable Channels	Regular TV broadcasting: VHF (2~13), UHF (14~69)	
		Cable TV broadcasting: 1~125	
		Audio output jacks 1, 2	
		Optical/Coaxial digital audio output support	
		Min. 100 dB signal-to-noise ratio	
Max. 0.005% to		Max. 0.005% total harmonic distortion (T.H.D)	
Output	at average 1 KHz		
	Video Video output jacks 1		
		S-Video output 1 (Y:1.0Vp-p, C:0.286Vp-p at 75 Ω load)	
		Component output	
		(Y: 1.0Vp-p, Pb: 0.70Vp-p, Pr: 0.70Vp-p at 75Ω load)	
	Picture Compression format	MPEG-II	
	Audio Compression format	Dolby AC-3 256kbps	
	Recording Quality	XP (about 8 Mbps), SP (about 4 Mbps), LP (about 2 Mbps),	
DVD EP (about 1.2 Mbps) Video S/N Ratio Min. 50dB at standard recording		EP (about 1.2 Mbps)	
		Min. 50dB at standard recording	
	Audio S/N Ratio	Min. 75dB	
	Audio frequency characteristics	20 Hz ~ 20 KHz	

Audio Output

For DVD discs, audio signals recorded at 96kHz sampling frequency are converted into and output at 48kHz.

Disc Type	DVD	AUDIO CD(CD-DA)
Analog Audio Output	48 / 96KHz	44.1KHz
Digital Audio Output	48KHz	44.1KHz

SAMSUNG DVD RECORDER & VCR

LIMITED WARRANTY TO ORIGINAL PURCHASER

This SAMSUNG brand product, as supplied and distributed by Samsung Electronics America, Inc. (SAMSUNG) and delivered new, in the original carton to the original consumer purchaser, is warranted by SAMSUNG against manufacturing defects in materials and workmanship for a limited warranty period of:

One (1) Year Parts / Ninety (90) days Labor (90 days Parts and Labor for Commercial Use)

This limited warranty begins on the original date of purchase, and is valid only on products purchased and used in the United States. To receive warranty service, the purchaser must contact SAMSUNG for problem determination and service procedures. Warranty service can only be performed by a SAMSUNG authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to SAMSUNG or SAMSUNG's authorized service center. Transportation of the product to and from the service center is the responsibility of the purchaser.

SAMSUNG will repair or replace this product, at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above. All replaced parts and products become the property of SAMSUNG and must be returned to SAMSUNG. Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer.

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This limited warranty covers manufacturing defects in materials and workmanship encountered in normal, and except to the extent otherwise expressly provided for in this statement, noncommercial use of this product, and shall not apply to the following, including, but not limited to: damage which occurs in shipment; delivery and installation; applications and uses for which this product was not intended; altered product or serial numbers; cosmetic damage or exterior finish; accidents, abuse, neglect, fire, water, lightning or other acts of nature; use of products, equipment, systems, utilities, services, parts, supplies, accessories, applications, installations, repairs, external wiring or connectors not supplied and authorized by SAMSUNG, or which damage this product or result in service problems; incorrect electrical line voltage, fluctuations and surges; customer adjustments and failure to follow operating instructions, cleaning, maintenance and environmental instructions that are covered and prescribed in the instruction book; product removal or reinstallation; reception problems and distortion related to noise, echo, interference or other signal transmission and delivery problems. SAMSUNG does not warrant uninterrupted or error-free operation of the product.

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Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

To obtain warranty hardware service, please contact SAMSUNG at:

Samsung Electronics America, Inc. 105 Challenger Road Ridgefield Park, NJ 07660-0511 1-800-SAMSUNG (726-7864) and www.samsung.com

Contact SAMSUNG WORLD WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

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	MEXICO	01-800-SAMSUNG (7267864)	www.samsung.com/mx
	U.S.A	1-800-SAMSUNG (7267864)	www.samsung.com
Latin America	ARGENTINE	0800-333-3733	www.samsung.com/ar
	BRAZIL	0800-124-421	www.samsung.com/br
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	COSTA RICA	0-800-507-7267	www.samsung.com/latin
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