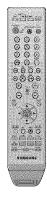


Instruction Manual

DVD-VR335







KANARKAR VIDEO VIIS HI-FI

www.samsung.com AK68-00995E-00



CONTRACTOR OF STREET

SAMSUNG

RRM:RU:R

👺 АНАН 🛄 🖂 ноли

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.

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

- 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

 VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.
 VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
 RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE, EXPOSITION DANGEREUSE AU FAISCEAU,
 SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
 AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE, ÄLÄ KATSO SÄTEESEEN,
 SYNLIG OCH OSYNLIG LASERSTRÄLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
 SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN.
 SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
- 打开时有可见及不可见激光辐射,避免激光束照射。
- ここを弱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 MPEG4 disc

- Disc : CD-R/-RW, DVD-RAM, DVD±R/ DVD±RW,
- MPEG4 File with following extensions can be played. : .avi, .divx, .AVI, .DIVX
- MPEG4 Codec format : DivX 3.11 DivX 4.x DivX 5.x
- Available Audio Format : "MP3", "MPEG", "PCM", "AC3", "DTS"
- Supported subtitle file formats: .smi, .srt, .sub, .psb,.txt, .ass

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.

Getting Started

Protection

- Program-protection: See page 76 "Locking a Title"
- Disc-protection: See page 89 "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 greater disc can be played, but maximum recording speed is 4x.
- 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.



Getting Started

Warning	.2
Precaution	.3
Important Safety Instructions	.3
Handling Cautions	.3
Maintenance of Cabinet	.3
Disc Handling	.3
Disc Storage	.4
Disc Specifications	.4
General Features	.8
Before Reading the User's Manual	9
How to use the DVD Recorder & VCR	9
Description	11
Front Panel	11
Front Panel Display	11
Rear Panel	12
Unpacking	12
Accessories	12
Tour of the Remote Control	13

Connecting & Setting Up

Quick Overview
Step 1 : Connecting the Antenna Cable
Antenna + DVD Recorder & VCR + TV :
No Cable box
Antenna + Cable box + DVD Recorder & VCR + TV :
Cable box with many scrambled channels
Antenna + DVD Recorder & VCR + Cable box + TV :
Cable box with a few scrambled channels
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_{B}, P_{R}) 20

Step 3 : Connecting the Audio Cable	21
Connecting to your TV	21
Connecting to a stereo amplifier with	
analog input jacks	22
Connecting to an AV amplifier with a	
digital input jack	23
Step 4 : Connecting HDMI/ DVI to a TV	24
Connecting to a TV with HDMI Jack	25
Connecting to a TV with DVI Jack	26
Step 5 : Connecting External Devices	26
Connecting a VCR, Set-Top Box(STB) or	
DVD player to the AV 1 IN or S-VIDEO IN jacks2	26
Connecting a Camcorder to the AV 2 IN jacks2	27
Connecting a Camcorder to the DV IN jack	28
Step 6 : Connecting the Power Cord	29
Step 7 : Preparing the Remote Control	29
Setting the Remote Control	30

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
DivX(R) Registration
Setting Up the Parental Control
VCR Setting41
Video Input
DVD EP Mode Time
Automatic Chapter Creator43
Quick Recording

Playback

DVD Playback

•	
Before Playing	 5

VCR Playback

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

Recording

VCR Recording Basic VCR Recording Check Remaining Time 70 Special Recording Features 70

Getting Started

Editing

Playing the Title List	73
Basic Editing (Title List)	75
Renaming(Labeling) a Title	75
Locking(Protecting) a Title	76
Deleting a Title	
Deleting a Section of a Title	
Editing a Chapter	
Dividing a Title	
Advanced Editing (Playlist)	82
Creating a Playlist	82
Playing Titles in the Playlist	83
Renaming a Playlist Title	
Editing a Scene for the Playlist	84
Copying a Playlist Title to the VCR	
Deleting a Playlist Title from the Playlist	
Disc Manager	
Editing the Disc Name	88
Disc Protection	
Formatting a Disc	90
Finalizing a disc	90
Unfinalizing a disc (V/VR mode)	
Delete All Title Lists	
Edit Compatible	

Reference

Troubleshooting
(DVD-VIDEO/DVD-RAM/DVD±RW/DVD±R)95
Troubleshooting (DVD)
Troubleshooting (VCR)
Problems and Solutions (Display error message)98
Specifications



The DVD-VR335 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-VR335, you can create your own DVD video titles on 4.7 GB DVD \pm RW/DVD \pm R or 8.5GB DVD \pm 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 63.)

- 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 45.)

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 65.)

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.

MPEG4 playback

This DVD Recorder can play MPEG4 formats within an avi file.

DivX Certification

DivX, DivX Certified, and associated logos are trademarks of DivXNetworks, Inc and are used under license.



HDMI (High Definition Multimedia Interface)

HDMI reduces picture noise by allowing a pure digital video/audio signal path from the DVD Recorder & VCR to your TV.

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	This involves a function available in DVD or DVD-R/DVD-RW(V)/+R discs that have been recorded and finalized.
	RAM	This involves a function available in DVD-RAM.
	-RW	This involves a function available in DVD-RW.
	-R	This involves a function available in DVD-R.
Ovoraw.	+RW	This involves a function available in DVD+RW.
() Defense	+R	This involves a function available in DVD+R.
	CD	This involves a function available in a data CD (CD-R or CD-RW).
() JPEG	JPEG	This involves a JPEG function available in CD-R/-RW or DVD±R/±RW/-RAM discs.
MP3	MP3	This involves an MP3 function available in CD-R/-RW or DVD±R/±RW/-RAM discs.
() MEEA	MPEG4	This involves an MPEG4 function available in 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.
2	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)
- 2) If a problem occurs, check the Troubleshooting. (See pages 95~97)

Copyright

©2006 Samsung Electronics Co.

All rights reserved; No part or whole of this user's manual may be reproduced or copied without the prior written permission of Samsung Electronics Co.

How to use the DVD Recorder & VCR

Step 1 Select the disc type

Getting Started

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 discs 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.

	0040044889	*****
	钃	You can only use either the VR or Video mode
		on a DVD-RW, but not both at the same time.
Note	钃	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.

Step 5 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

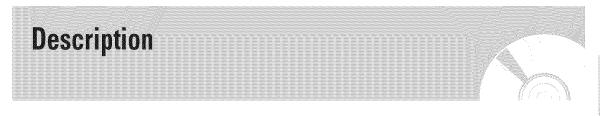
Although finalizing is generally unnecessary when playing the disc on a VR Mode compatible component, a finalized disc should be used for playback.

When using a DVD-RW disc in Video Mode

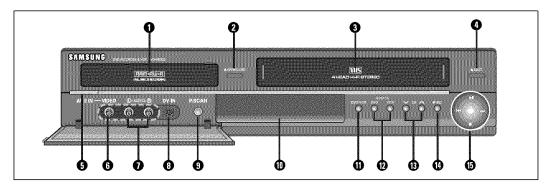
The disc should be finalized first to enable playback on anything other than this recorder. No more editing or recording can be made on the disc once it has been finalized.

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.



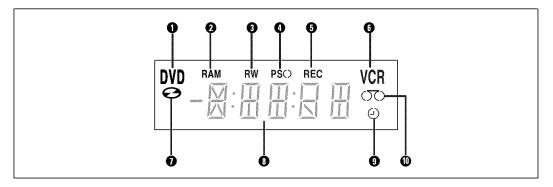
Front Panel



- 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

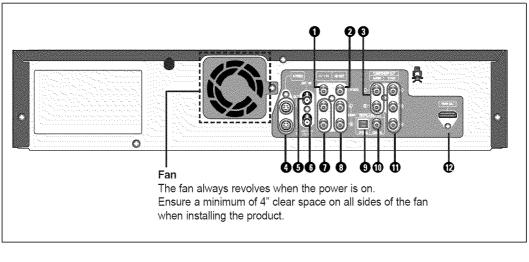
Front Panel Display



- 1. DVD is activated.
- 2. DVD-RAM is activated.
- 3. $DVD(\pm)R$ or $DVD(\pm)RW$ 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.

Gening Started



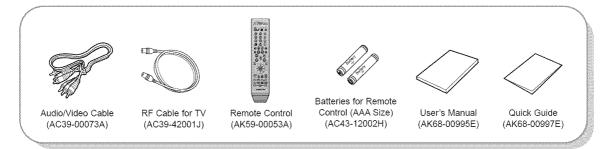
- 1. VIDEO INPUT JACK (AV 1 IN)
- 2. VIDEO OUT JACK (AV OUT)
- 3. AUDIO OUT JACKS (COMPONENT OUT)
- 4. S-VIDEO IN/OUT JACKS
- 5. ANT IN JACK
- 6. ANT OUT (TO TV) JACK
- 7. AUDIO INPUT JACKS (AV 1 IN)

- 8. AUDIO OUT JACKS (AV OUT)
- 9. DIGITAL AUDIO OUT JACK (OPTICAL)
- 10. DIGITAL AUDIO OUT JACK (COAXIAL)
- 11. VIDEO OUT JACKS (COMPONENT OUT)
- 12. HDMI OUT Connects the input of external equipment using an HDMI cable.

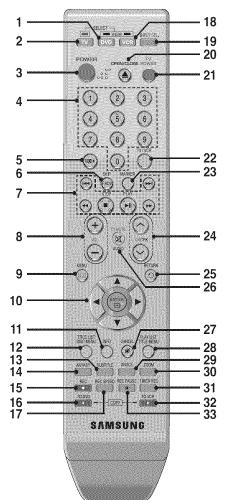


Accessories

Check for the supplied accessories below.



Tour of the Remote Control



- 1. DVD Button Press this when you use a DVD.
- 2. TV Button Press this to operate your 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.
- 11. 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.

- SUBTITLE Button Press this to switch the DVD's subtitle language.
- 14. 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.
- 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 also 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 operate normally.

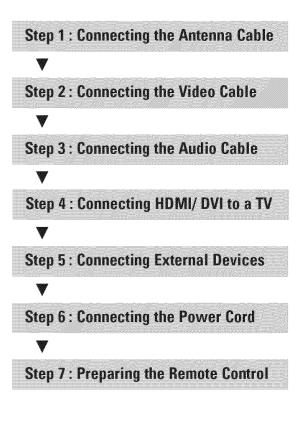
oporato normany.

* This is a special remote control for the visually impaired, and has Braille points on the POWER(●), STOP(③) and PLAY(④) buttons.

Connecting & Setting Up

Quick Overview

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



Quick Overview
Step 1: Connecting the Antenna Cable
Step 2 : Connecting the Video Cable
Step 3 : Connecting the Audio Cable
Step 4 : Connecting HDMI/ DVI to a TV
Step 5 : Connecting External Devices
Step 6 : Connecting the Power Cord
Step 7 : 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.

14 - English

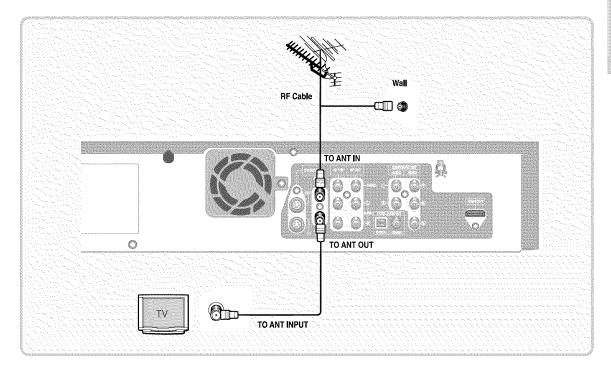
Connections

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 a cable box.

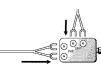


 If you are using an off-air antenna that has 300ohm twin flat leads, use an external antenna connector (300-75 ohm adaptor : not supplied) to connect the antenna to the DVD Recorder & VCR.



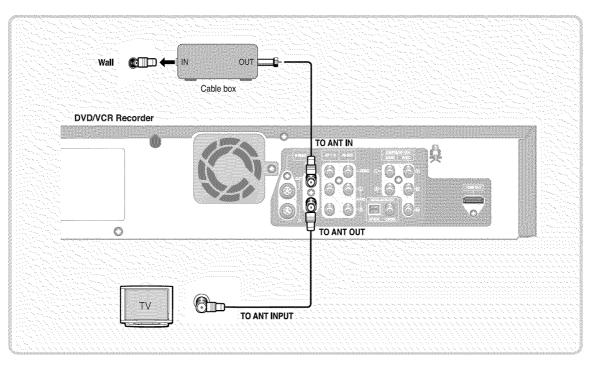
Note

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.



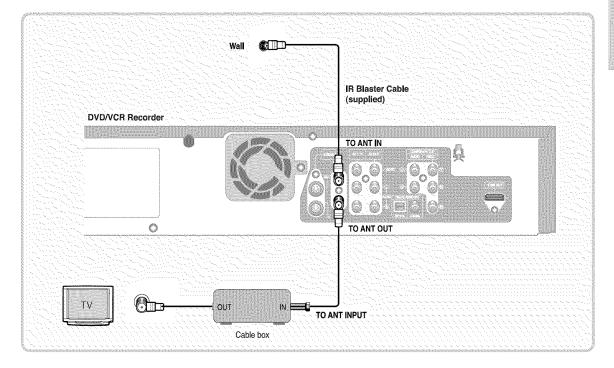
Antenna + Cable box + DVD Recorder & VCR + TV : Cable box with many scrambled channels

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.

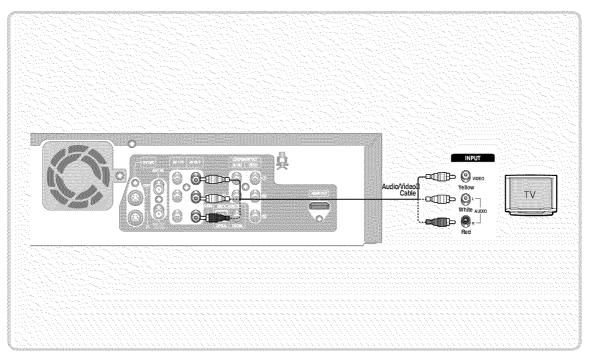


Step 2 : Connecting the Video Cable

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

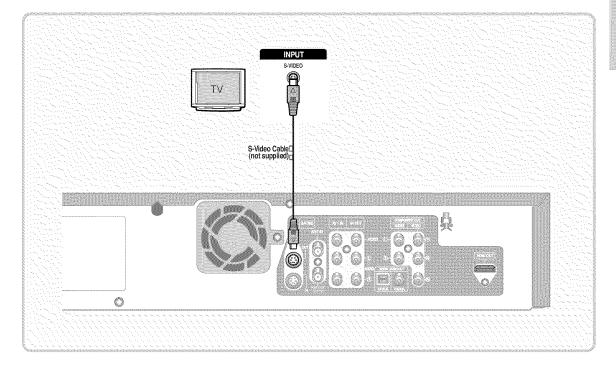
Connect a video(yellow) cable between the VIDEO(yellow) OUT jack on DVD Recorder & VCR and VIDEO(yellow) IN jack on the TV.



- 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.



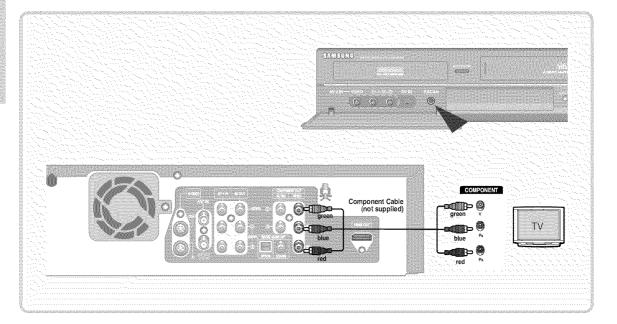
- You will enjoy high quality images. S-Video separates the picture element into black and white (Y) and color (C) signals to present clearer images than regular video input mode.
- Connect audio cables(white and red) between the AUDIO OUT jacks on the DVD Recorder & VCR and AUDIO IN jacks on TV(or AV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



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, P_B, P_R) jacks on DVD Recorder & VCR and COMPONENT IN (Y, P_B, P_R) jacks on your TV.



- You will enjoy high quality accurate color reproduction images. Component video separates the picture element into black and White(Y), blue(P_θ), red(P_R) 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

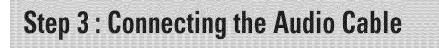
Connections

- 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.

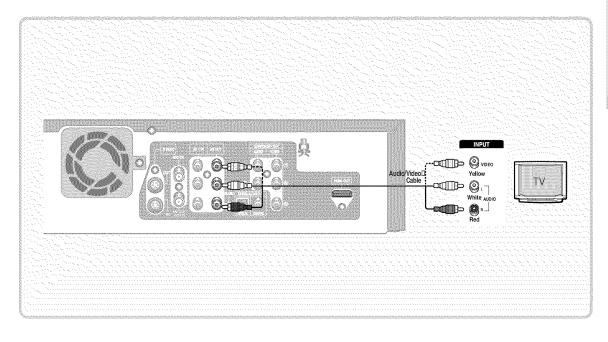
- Progressive Scan Output (480p) Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. If you experience 480p progressive scan picture problems, it is recommended that you switch the connection 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.
- The Component jacks will not output video resolutions above 480p. To view 720p and 1080i, connect the DVD-VR 335 to your TV with an HDMI-HDMI cable. With HDMI connected, press the P.SCAN button to alternate between all available resolutions. (See page 39)



Select one of the Audio connections on the following pages.

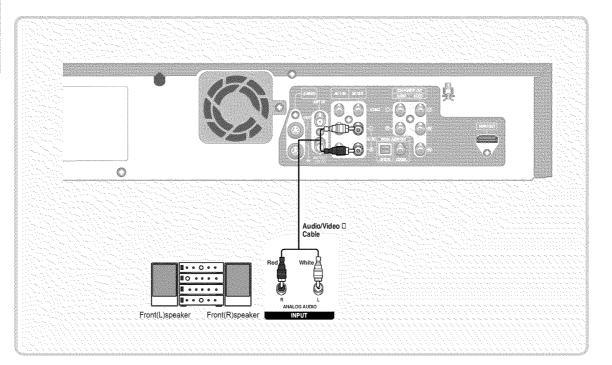
Connecting to your TV

This connection will use your TV's speakers.



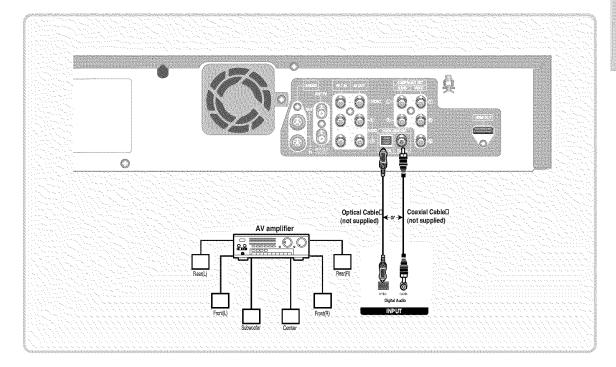


Connecting to a stereo amplifier with analog input jacks If your stereo amplifier only has AUDIO INPUT jacks(L and R), use the AUDIO OUT jacks.



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 37)



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

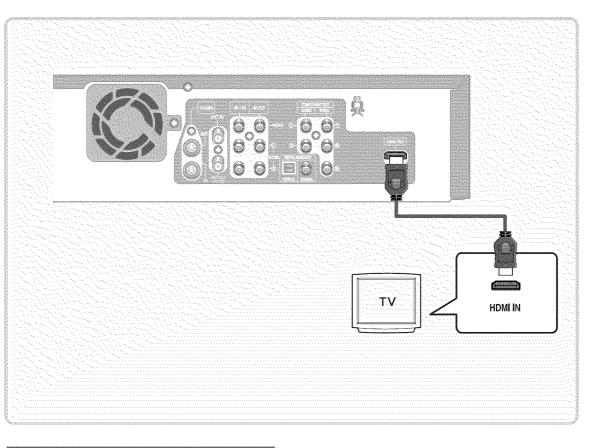
"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.



Connecting to a TV with HDMI Jack

Using an HDMI- HDMI cable(not included) connect the HDMI OUT jack on the rear of the DVD Recorder to the HDMI IN jack of your TV.

Press the input selector on your TV remote control until the HDMI signal from the DVD Recorder appears on your TV screen.





To audio on your TV when using HDMI, set the digital audio output to PCM (2 channel).(See page 37)

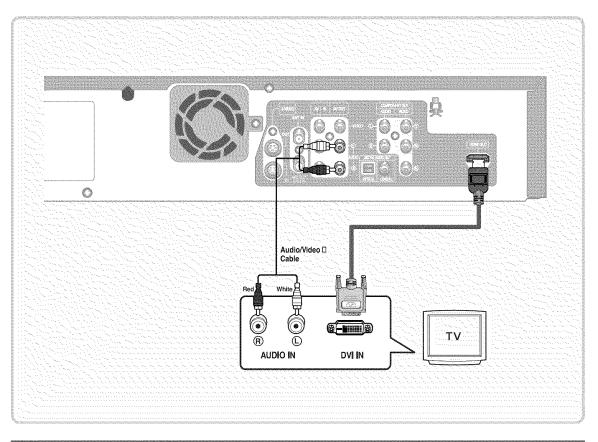
Depending on the HDMI device(TV/HDMI Receiver) you use, audio may not be supported. If TV does not support Dolby digital/DTS, Audio output is not available when you set Digital output as Bitstream or select DTS On in Audio setup menu. In this case, set the digital audio output to PCM or DTS Off.

Connecting to a TV with DVI Jack

Using an HDMI-DVI cable (not included), connect the HDMI OUT terminal on the rear of the DVD Recorder to the DVI IN terminal of your TV.

Using the audio cables, connect the AUDIO (red and white) OUT terminals on the rear of the DVD Recorder to the AUDIO (red and white) IN terminals of your TV. Turn on the DVD Recorder and TV.

Press the input selector on your TV remote control until the DVI signal from the DVD Recorder appears on your TV screen.



To change HDMI output resolution, see page 39.

HDMI (High Definition Multimedia Interface)

HDMI is an interface to enable the digital transmission of video and audio data with just a single connector. Since HDMI is based on DVI, it is completely compatible with DVI. The only difference between HDMI and DVI is that HDMI supports multi-channel audio.

Using HDMI, the DVD recorder transmits a digital video and audio signal and displays a vivid picture on a TV having anHDMI input jack.

- HDMI connection description HDMI connector - Both uncompressed video data and digital audio data (LPCM or Bit Stream data).
 - Even though the DVD recorder records analog audio and video, it sends a pure digital signal to the TV.
 - If TV does not support HDCP (High-bandwidth Digital Content Protection), snow noise appears on the screen.

Why does Samsung use HDMI?

Analog TVs require an analog video/audio signal. However, when playing a DVD, the data transmitted to a TV is digital. Therefore either a digital-to-analog converter (in the DVD Recorder) or an analog-to-digital converter (in the TV) is required. During this conversion, the picture quality is degraded due to noise and signal loss. HDMI technology is superior because it requires no D/A conversion and is a pure digital signal from the DVD recorder to your TV.

What is the HDCP?

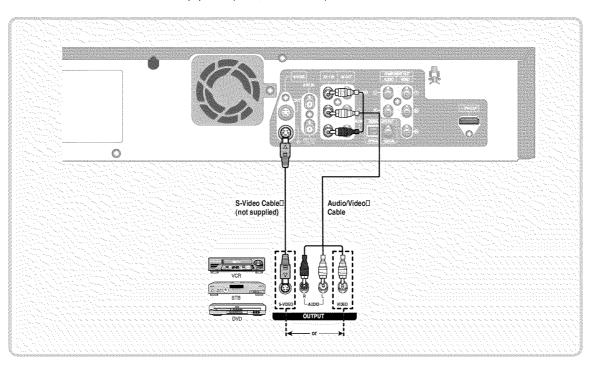
HDCP (High-bandwidth Digital Content Protection) is a system for protecting DVD content outputted via HDMI from being copied. It provides a secure digital link between a video source (PC, DVD. etc) and a display device (TV, projector. etc). Content is encrypted at the source device to prevent unauthorized copies from being made.

Step 5 : 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

Connect a VCR or external device to AV 1 IN jacks of the DVD Recorder & VCR. If desired, you can connect an S-Video cable to the S-Video In jack instead of connecting the Video (yellow) cable. You can record from connected equipment (VCR, STB or DVD).



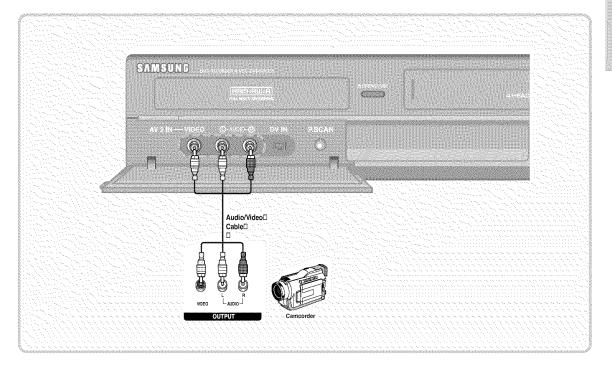


You can also use the AV 2 IN jacks on the front panel of the DVD Recorder & VCR.

- 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 42)

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.





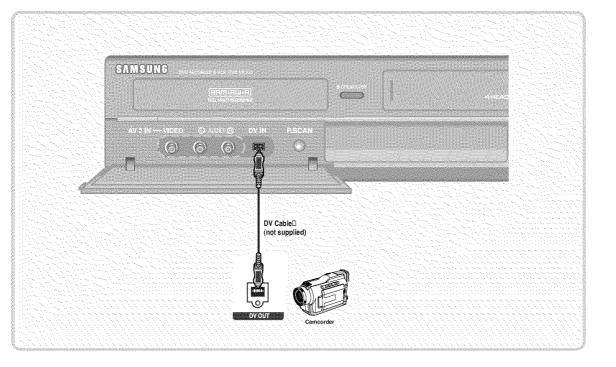
If the AV 2 In input source is not selected automatically, press the INPUT SEL. button to select the AV 2 input.



0.000

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.





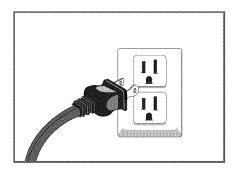
If the input is not selected automatically, use INPUT SEL. button to select proper input.



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 7 : Preparing the Remote Control

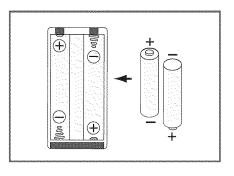
Install Batteries in the Remote Control

- 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 (∧/∨), TV MUTE, 0~9, 100+.





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.

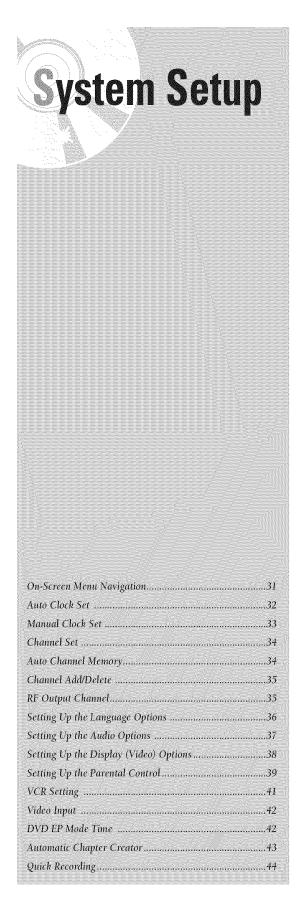
 If several codes are indicated for your television brand, try each one in turn until you find one that works. If you replace the remote control's batteries, you must set the brand code again.

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 (\wedge/\vee)	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.

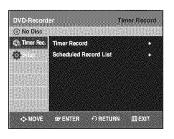


The various functions may not be able to be controlled on all televisions. If you encounter problems, operate the television directly.



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

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

ENTER Button

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

RETURN Button

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



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

Ninte

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.





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

No Disc		
() ,	Auto Clock Set	
O-Satup	Manual Clock Set	

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

0	Clock Date CH	Accomatio	
Setup	Time Zone	: Automatic	
	Daylight Saving	: Automatic	•

- 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

Note

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

🕑 No Disc Ba			
Setup	Select channel :	Auto	

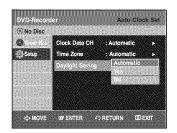
Time Zone

Press the $\blacktriangle \nabla$ buttons to select the time zone of your area, then press the ENTER or \triangleright button. Select **Automatic** to set the time zone automatically.

© No Disc		
8	Clock Data CH	Automatic
Solup	Time Zone	
	Daylight Saving	

Daylight Saving

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



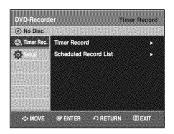


If Auto Setup fails to set the DVD Recorder & VCR's internal clock by locating a local TV station, follow these steps to set the date and time manually.



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.



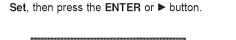
Press the ▲▼ buttons to select **Setup**, then press the **ENTER** or ► button.



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











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.

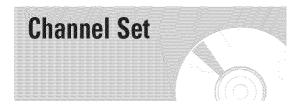
▲♥ : Sets the value

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

◄ ►: Moves to items

English - 33

System Setup



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.
 - DVD-Records (No Disc O.T 10 Schaduled Rec ord Lis
 - With the unit in Stop mode/No Disc mode, press the MENU button.



Press the **A**V buttons to select **Setup**, then press the ENTER or ▶ button.

🕑 No Disc		
2	System	
o sata	Clock Set	
La Canera Container	Channel Set	
	Language	
	Audio	
	Video	Þ
	Parental Control a	

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.



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)



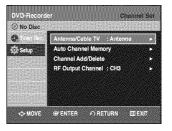
Auto Channel Memory will automatically seek and store all active channels in your area.

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

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

Ľ

Press the **A** V buttons to select Channel Set, then press the ENTER or ▶ button.



Press the **AV** 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 displayed.
- · If you want to stop or cancel scanning, press the ENTER button. Then select 'YES'.



Use this feature if Auto Channel Memory missed a channel that you would like to add or if you wish to remove a channel.

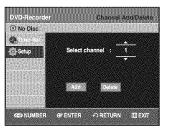
With the unit in Stop mode/No Disc mode, press the MENU button.

Press the **▲**♥ 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.



h

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 (∧/∨) 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 **A** buttons to select Add or Delete. then press the ENTER button.



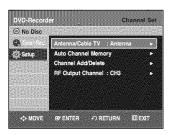


When you connect the DVD Recorder & VCR to your TV with the RF Antenna Cable, follow the steps below to set the RF Output Channel.

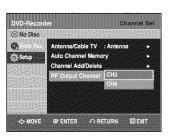
With the unit in Stop mode/No Disc mode, press the MENU button.

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-Recorder
 Setup

 O No Dise
 Inc. Ac

 Inc. Ac
 System

 Setup
 Clock Set

 Channel Set
 Inc. Ac

 Language
 Inc. Ac

 Audio
 Inc. Ac

 Video
 Inc. Ac

 Parental Control #
 Inc. Ac
 - Press the $\blacktriangle \forall$ buttons to select Language, then press the ENTER or \triangleright button.

Language setup menu will be displayed.

Audio	: Original	C.in
Subtitle	: Automatic	
Disc Menu	: English	
On-Screen Menu	: English	
	Subtitle Disc Menu	Subtitle : Automatic

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

) No Disc		
A ,	Audio	Original_gamm.mas
Setup	Subtitle	
niumoneise	Disc Menu	Provins.
	On-Screen Menu	Octavit
	Onvacileen menta	Esopera
		Autors.
		Sector 1 and

- · 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.

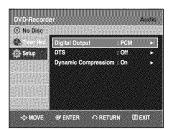
With the unit in Stop mode/No Disc mode, press the **MENU** button.

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



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

Audio setup menu will be displayed.





Press the ▲♥ buttons to select the desired audio option, then press the ENTER or ► button.

5 Pre the

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

Note

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

Digital Output

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



System Setup

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 **AV** buttons to select **Setup**, then press the ENTER or ▶ button.



Press the **AV** buttons to select Video, then press the ENTER or ▶ button. Video option menu will be displayed.

No Disc			-
68	TV Aspect	: 16:9 Wide	W.M
🔆 Setup	Input Level	: Darker	
	Black Level	: 7.5 IRE	
	3D Noise Reduction	: Off	
	HDMI/DVI Resolution	: 480P	
	DivX(R) Registration		

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

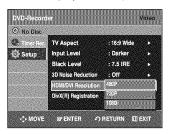
3D Noise Reduction

- Off : Normal
- On : Select to remove noise from the screen.
- Note
- 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.

38 - English

HDMI/DVI Resolution

This setting is used when the unit is connected by HDMI or DVI to Display devices (TV, Monitor, etc).



- 480p : 720 x 480
- 720p : 1280 x 720
- 1080i : 1920 x 1080

Output selection

Connect the DVD-R335 to your TV via HDMI or DVI. Set your TV's input to HDMI or DVI.

- Press the **P.SCAN** button while the unit is in stop mode to select the output resolution.
- If your TV is connected the HDMI or DVI cable, the output resolution mode changes in the following sequence each time you press the **P.SCAN** button:

→ 480p → 720p → 1080i

- If your TV is connected via AV or component cables(without HDMI/DVI cable), the output resolution mode toggles between 480p/480i.
- Slote

 Even if HDMI/DVI cable is connected to your TV, the AV connection outputs only 480i and the Component connection outputs only 480p irrespective of the on-screen display.



Please use the Registration code to register your DVD Recorder with the DivX(R) Video On Demand format. To learn more, visit www.divx.com/vod

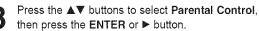
Setting Up the Parental Control

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.

💿 No Disc		
8 4	System	
Setup	Clock Set	
	Channel Set	•
	Language	•
	Audio	Ŀ.
	Video	•
	Parental Control 🖬	



No Disc		
e r 1		
🔿 Setup	Create the password	



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



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



6 Press the ▲▼ buttons to select On, then press the ENTER or ► button. The Parental Control screen appears.

Note Press the **RETURN** or ◄ 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 95)

About the Rating Level

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



No Dis	XC	
2	Password	Level 8 Adults
🔆 Selup	Retting to the	Level 7
	Change Password	Lover 6 Lover 5
		Level 4
		Lerol 3
		Level 2 Level 1 Kids

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.

About the Change Password

Press the ▲▼ buttons to select Change Password,
 then press the ENTER or ▶ button.

Q .	Password	: On	
🚭 Setup	Rating Level	: Level 1 Kids	•
-\$ MOVE	er Enter	O RETURN III E	хп
↔ Move	OF ENTER	oreturn 🔟 e	хп
<≎ MOVE	er enter	ර RETURN 🔟 E	хιт
<> MOVE DVD-Recor		ා RETURN (U) E Change Pase	
DVD-Recor			
BVB-Recor			



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

DB EXC

The 'Confirm the password' message will be displayed.

OF ENTER O RETURN

🕑 No Disc					
8					
) Setup	onfim	1 the p	asswo	ora	



Enter your password again.

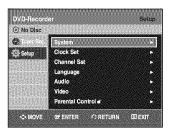
Press the RETURN or < button to return to the previous menu. Press the MENU button to exit the menu.



This function allows you to set up 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.

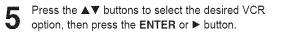


Press the ▲▼ buttons to select System, then press the ENTER or ► button.



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

No Disc		
8	Tape Length	: T120 🔶
Selup	Auto Play	: On 🕨
	Auto Repeat	: Off 🕨



6 Press the ▲▼ buttons to select the desired item, 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.

💿 No Disc		
a	Topologia	T120
(2) Setup	Auto Play Auto Repeat	T160

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.

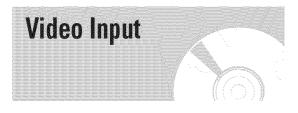
🕑 No Disc		
()	Tape Length	: T120 🕨
Setup	Auto Play	
	Auto Repeat	On

Auto Repeat

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

🕙 No Disc	NAME OF COLUMN		
&	Tape Length	: T120	
Setup	Auto Play	: On	
a addigitation	a Autor Frenchisto	0//	
		0.n	
<> NOVE	@ ENTER	ORETURN	ШЕХЛ

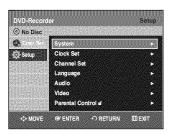
System Setup



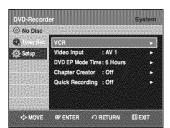
You can watch video from an external component through the AV 1(Composite) or S-video input jacks.

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.



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.



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

DVD EP Mode Time

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

- 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

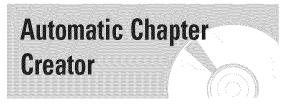
Press the **▲**♥ buttons to select **System**, then press the **ENTER** or **▶** button.

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



5

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



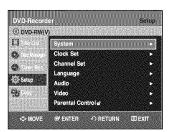
A DVD-Video consists of 'Titles' and 'Chapters'. When you record one program, it makes one Title. If you use this function, the Title will be divided into Chapters.

O avidentivi	OVDH
/ mode)	

(

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 Chapter Creator, then press the ENTER or ► button.



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

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.

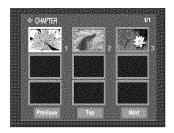


To display the created titles, finalize the disc (see page 86) and then press the **TITLE MENU**





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.





 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.
- 2 Press the $\blacktriangle \forall$ buttons to select Setup, then press the ENTER or \triangleright button.



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

 No Disc 	VCR		
015-105	Video Input	: AV 1	C.
<u></u>	DVD EP Mode Tim	e: 6 Hours	Þ
	Chapter Creator	: 011	
	Quick Recording	: 0ff	

4

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

а.	VCR	
o (Stitut	Video Input : AV 1	
	DVD EP Mode Time: 6 Hours	
	Chapter Creator : Off	
	Quick Recording	
	0.000	



Note

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

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

$/ \sim \mathbb{N}$			
	hanl		
Elayı	back		
	<u> </u>		
This section intro back by disc type		ctions of play-	
		DIGITAL	1
DIGITAL	ats	SOUND	
Dolby Digital	DTS	Digital Audio	
STEREO	NTSC	mr	
Stereo	NTSC broadcast sy em in U.S.A, Canac Korea, Japan,etc.		
	Norea, Japan,etc.		
VIDEO			
DivX			
ADDALL			
DVD Playback			
Before Playing			
Playing a Disc			46
Using the Search & S	5kip Functions		47
Using the Search & S Slow Motion Play / S	Skip Functions tep Motion Play		47 48
Using the Scarch & S Slow Motion Play / S About ANYKEY	Skip Functions tep Motion Play		47 48 48
Using the Search & S Slow Motion Play / S About ANYKEY Repeat Playback	5kip Functions tep Motion Play		47 48 48 49
Using the Search & S Slow Motion Play / S About ANYKEY Repeat Playback Selecting the Subtitle	5kip Functions tep Motion Play e& Audio Langua		47 48 48 49 50
Using the Search & S Slow Motion Play / S About ANYKEY Repeat Playback Selecting the Subtitle Changing the Camer	5kip Functions tep Motion Play & Audio Langua a Angle		47 48 48 49 50 51
Using the Search & S Slow Motion Play / S About ANYKEY Repeat Playback Selecting the Subtitle Changing the Camer Zooming-In	5kip Functions tep Motion Play & Audio Langua a Angle		47 48 48 49 50 51 51
Using the Search & S Slow Motion Play / S About ANYKEY Repeat Playback Selecting the Subtitle Changing the Subtitle Coming-In Using the Bookmarks	5kip Functions tep Motion Play & Audio Langua a Angle	ge	47 48 48 49 50 51 51 51 52
Using the Search & S Slow Motion Play / S About ANYKEY Repeat Playback Selecting the Subtitle Changing the Subtitle Changing the Camer Using the Bookmarks Using the Markers	5kip Functions tep Motion Play & Audio Langua, a Angle	ge	47 48 48 49 50 51 51 52 52 53
Using the Search & S Slow Motion Play / S About ANYKEY Repeat Playback Selecting the Subtitle Changing the Subtitle Changing the Camer. Joing the Bookmarks Using the Markers Playing back an Audi	5kip Functions tep Motion Play & Audio Langua a Angle s io CD (CD-DA)	ge	 447 448 449 550 551 551 552 553 554
Using the Search & S Slow Motion Play / S About ANYKEY Repeat Playback Selecting the Subtitle Changing the Subtitle Changing the Camer Zooming-In Zooming-In Vsing the Bookmarks Using the Markers Playing back an Audi Playing back an MP3	5kip Functions tep Motion Play & Audio Langua a Angle s to CD (CD-DA) Disc	ge	 447 448 448 449 550 551 551 552 553 554 555
Using the Search & S Slow Motion Play / S About ANYKEY Repeat Playback Selecting the Subtitle Changing the Subtitle Changing the Camer Zooming-In Zooming-In Using the Bookmarks Using the Bookmarks Using the Markers Playing back an Audi Playing back an MP3 Repeat Playback of a	5kip Functions tep Motion Play & Audio Langua a Angle s to CD (CD-DA) Disc n Audio/MP3 Disc	ge	 47 48 48 49 50 51 51 52 53 54 55 56
Using the Search & S Slow Motion Play / S About ANYKEY Repeat Playback Selecting the Subtitle Changing the Subtitle Changing the Camer Zooming-In Zooming-In Using the Bookmarks Using the Bookmarks Using the Markers Playing back an Audi Playing back an MP3 Repeat Playback of a Play Option Mode	5kip Functions tep Motion Play & Audio Langua a Angle o CD (CD-DA) Disc n Audio/MP3 Disc	ge	 47 48 48 49 50 51 51 52 53 54 55 56 56
Using the Search & S Slow Motion Play / S About ANYKEY Repeat Playback Selecting the Subtitle Changing the Subtitle Changing the Camer Zooming-In Zooming-In Using the Bookmarks Using the Bookmarks Using the Markers Playing back an Audi Playing back an MP3 Repeat Playback of a Play Option Mode To Program Tracks	5kip Functions tep Motion Play & Audio Langua, a Angle s to CD (CD-DA) Disc n Audio/MP3 Disc	ge	 47 48 48 49 50 51 51 52 53 54 55 56 56 57
Using the Search & S Slow Motion Play / S About ANYKEY Repeat Playback Selecting the Subtitle Changing the Subtitle Changing the Camer Zooming-In Zooming-In Using the Bookmarks Using the Bookmarks Using the Markers Playing back an MP3 Repeat Playback of a Play Option Mode To Program Tracks Playing a Picture Dis	5kip Functions tep Motion Play & Audio Langua a Angle to CD (CD-DA) Disc n Audio/MP3 Disc	ge	 47 48 49 50 51 51 52 53 54 55 56 56 57 57
Using the Search & S Slow Motion Play / S About ANYKEY Repeat Playback Selecting the Subtitle Changing the Subtitle Changing the Camer Zooming-In Zooming-In Using the Bookmarks Using the Bookmarks Using the Markers Playing back an MP3 Repeat Playback of a Play Option Mode To Program Tracks Playing a Picture Dis	5kip Functions tep Motion Play & Audio Langua a Angle to CD (CD-DA) Disc n Audio/MP3 Disc	ge	 47 48 49 50 51 51 52 53 54 55 56 56 57 57
Using the Search & S Slow Motion Play / S About ANYKEY Repeat Playback Selecting the Subtitle Changing the Camer. Zooming-In Using the Bookmarks Using the Bookmarks Using the Markers Playing back an Audi Playing back an Audi Playing back an MP3 Repeat Playback of a Play Option Mode To Program Tracks Playing a Picture Dis Playing an MPEG4 E	5kip Functions tep Motion Play & Audio Langua a Angle io CD (CD-DA) Disc n Audio/MP3 Disc	ge	47 48 49 50 51 52 53 54 55 56 56 57 57 58
Using the Search & S Slow Motion Play / S About ANYKEY Repeat Playback Selecting the Subtitle Changing the Camer. Zooming-In Using the Bookmarks Using the Bookmarks Using the Markers Playing back an Audi Playing back an Audi Playing back an MP3 Repeat Playback of a Play Option Mode To Program Tracks Playing a Picture Dis Playing an MPEG4 E	5kip Functions tep Motion Play 6 Audio Langua a Angle io CD (CD-DA) 1 Disc n Audio/MP3 Disc c Disc	ge	 47 48 48 49 50 51 51 52 53 54 55 56 57 57 58
Using the Search & S Slow Motion Play / S About ANYKEY Repeat Playback Selecting the Subtitle Changing the Subtitle Changing the Camer Zooming-In Using the Bookmarks Using the Bookmarks Using the Bookmarks Using the Bookmarks Using the Bookmarks Using the Camer Playing back an Audi Playing back an Audi Playing back an Audi Playing back an Audi Playing back an MP3 Repeat Playback of a Playing an MPEG4 E VCR Playback Playing the VCR Tracking	 5kip Functions tep Motion Play & Audio Langua, a Angle io CD (CD-DA) Disc n Audio/MP3 Disc Disc 	ge	 47 48 48 49 50 51 51 52 53 54 55 56 57 57 58 59 59 59
Playing the VCR	5kip Functions tep Motion Play 6 Audio Langua a Angle io CD (CD-DA) 1 Disc n Audio/MP3 Disc c Disc isc k Features	ge	 47 48 48 49 50 51 52 53 54 55 56 56 57 57 58 59 59 50

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

Disc Types	Disc Logo	Recorded	Disc Shape	Max. Playing
	content		or minute.	Time or minute.
		1/050	Single sided(5")	240
DVD-VIDEO		VIDEO	Double sided(5 [°])	480
	VIDEO	AUDIO	Single sided(3.5*)	80
	COUDACT		Double sided(3.5*)	160 74
AUDIO-CD		AUDIO	Single sided(5") Single sided(3.5")	20
	DIGITAL AUDIO		Single sided(5.0)	20
JPEG		JPEG Images	Single sided(3.5*)	-
	-		Single sided(5")	-
MP3		MP3 Audio	Single sided(3.5")	-
		NDEOLM	Single sided(5")	-
MPEG4		MPEG4 Movie	Single sided(3.5")	-
				1 hr (XP: Excellent Quality)
			Single sided(5°)	2 hrs (SP: Standard Quality)
			(4.7GB)	4 hrs (LP: Long Playback)
OVD-RAM	DVD	VIDEO		6 hrs or 8 hrs (EP:Extended)
	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	DVD	VIDEO	68 (4 7 00)	2 hrs (SP: Standard Quality)
515101	RW	AUDIO	5" (4.7GB)	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)
		VIDEO	. ,	6 or 8 hrs (EP:Extended)
DVD-R		AUDIO		2 hrs (XP: Excellent Quality)
			Dual layer(5")	4 hrs (SP: Standard Quality)
			, , , ,	8 hrs (LP: Long Playback)
			(8.5GB)	
				11 or 15 hrs (EP.Extended)
		1/10/20		1 hr (XP: Excellent Quality)
DVD+RW	RW	VIDEO	5" (4.7GB)	2 hrs (SP: Standard Quality)
	DVD+Rettenable	AUDIO	0 (100)	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)
	CTTTP:	VIDEO	· · ·	6 or 8 hrs (EP Extended)
DVD+R	RW	AUDIO		2 hrs (XP: Excellent Quality)
	CMDets	nobio	Dual layer(5")	4 hrs (SP: Standard Quality)
			, , , ,	
			(8.5GB)	8 hrs (LP: Long Playback)
				11 or 15 hrs (EP:Extended)

English - 45

Playback

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, etc.
- Video CD/CVD/SVCD/CD-ROM/CDV/CD-G/CD-I
- Note

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.





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.

	9000
IK	ilder:
	hii.l
8.4	ŵo

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



- 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.
- **2** 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

	OVC-RW	\bigcirc	(O) DVDHRW	
Contracticione P	Subbostabal	Minhada M	1112121110	STREET ST

Press the TITLE LIST button to display title list.

Note

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



During 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 MPEG4	 ▶ Fast 1/4€ Fast 1→ ▶ Fast 2/4€ Fast 2→ ▶ Fast 3/4€ Fast 3→ ▶ Fast 4/4€ Fast 4→ ▶ Fast 5/4€ Fast 5→ ▶ Fast 6/4€ Fast 6 ▶ Fast 1→ ▶ Fast 2→ ▶ Fast 3
AUDIO CD(CD-DA)	X2 X4 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).) No sound is heard during scanning in all MPEG4 modes. Depending on the disc type, the sound quality may lower during Fast 1 mode.

Skipping Chapters or Tracks

During playback, press the I◀◀ or ►►I button on the remote control.

If you press the I◄◀ button

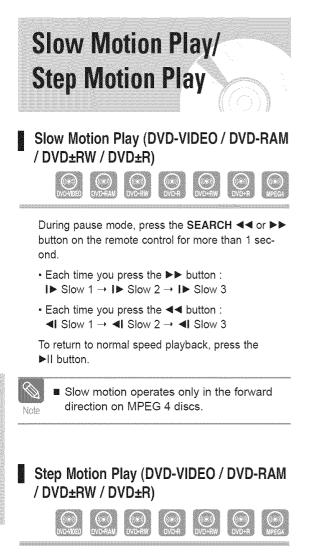
If you press the I◄◀ button, it moves to the beginning of the chapter, track or marker(DVD-RAM, DVD-RW(VR mode)). Pressing the button once again within 3 seconds returns to the beginning of the previous chapter, track or marker(DVD-RAM, DVD-RW(VR mode)).

 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.

Passage



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.



Pactor

No sound is heard during Step or Slow mode. Step motion operates only in the forward

direction on MPEG 4 discs.

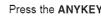


The ANYKEY functions allows you to easily search for a desired scene by accessing title, chapter or time. You can also change the subtitle and audio settings and set some features including Repeat, Angle and Zoom.

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 ANYKEY button during playback.



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



	-		
a	2	ь.	
-		28	
	ыń	27	
	~	е.	

Press the \triangleleft 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.

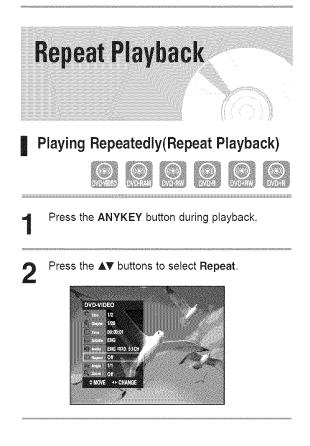
2 Press the ▲▼ buttons to select Time.

B Enter the time in the sequence of hours, minutes, and seconds using the number buttons, then press the ENTER button.

Note

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.

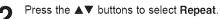
Note

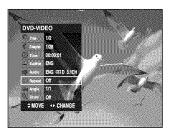
DVD-RAM/DVD-RW(VR mode), unfinalized DVD±R and unfinalized DVD-RW (Video mode) do not repeat a chapter.

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



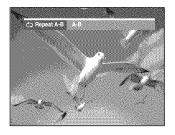
- **1** F
- Press the **ANYKEY** button during playback.







- 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.

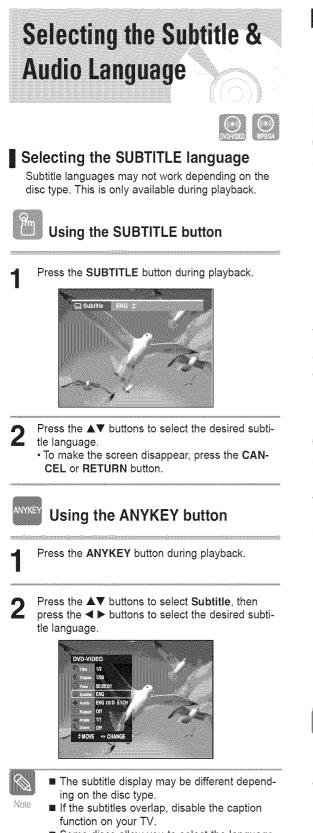


- To return to normal playback -

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.



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 AV buttons to select the desired audio language.

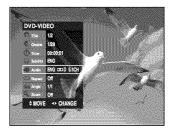


Using the ANYKEY button

Press the ANYKEY button during playback.



Press the **AV** buttons to select **Audio**, then press the **< >** 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.

P

50 - English



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.

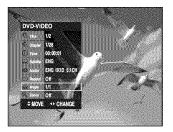


Press the ▲♥ button to select the desired angle.

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.

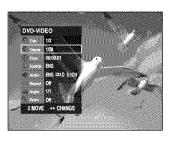




- This function is disc-dependent, and may not work all DVDs.
- This function does not work when a DVD has not been recorded with a multi-camera angle system.

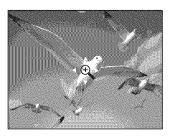


Press the ANYKEY button during playback.





Press the ▲▼ buttons to select Zoom, then press the ENTER button. (🔦) will be displayed.



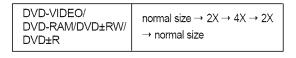


Press ▲♥, ◀ ► buttons to move to the area you want to enlarge.



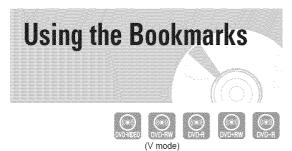
Press the ENTER button.

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.



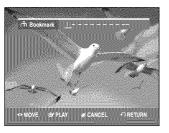
Set marks at scenes you want to see again so that you can start playback from the marked position.





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

• The number 1 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 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.

Press the ◀ ► buttons to select a bookmarked scene.



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

Clearing a Bookmark



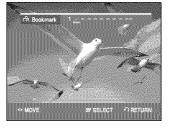
Press the MARKER button.

Press the ◀ ► buttons to select a bookmarked scene.





Press the **CANCEL** button to delete the selected bookmark.





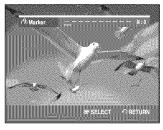
When the disc tray is opened and then closed, bookmarks will disappear.

52 - English

Plavback

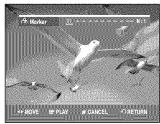


Press the MARKER button during playback.



2

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



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

Press the ◀ ► 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.



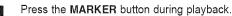
Press the **I** buttons to select a marked scene.





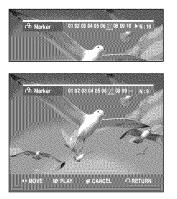
- Press the ENTER or ►II button to start playing from the selected scene.
- If you press the NEXT SKIP (▶►) button or the PREVIOUS SKIP(I◄◄) button in marker mode, and the next or current marked point plays for shorter than three seconds, playback starts from the previous marked point.

Clearing a Marker





Press the ◀ ► 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.

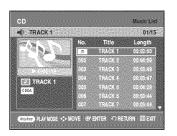




Each disc has a variety of menu functions available.

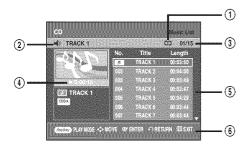
Playing an Audio CD (CD-DA)

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



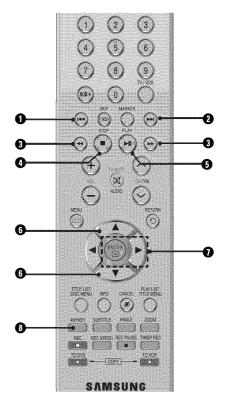
Press the ▲▼ buttons to select the track (song) to start playback from, and then press the ENTER button.

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.
- 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



1. 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.

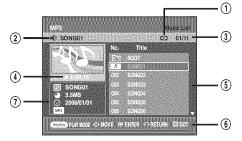
If you press this button within three seconds after playback starts, the previous track will be played. If you press this button after three seconds, the current track will be replayed from the beginning.

- 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).



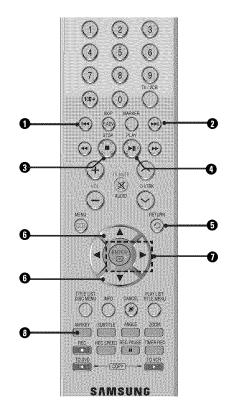


MP3 Screen Elements



- 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

Buttons on the Remote Control used for MP3 disc 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. 🔳 : Stops a track(song).
- 4. $\blacktriangleright\!\!\mathsf{II}$: Plays a track(song) or pauses playback.
- 5. **RETURN button:** Moves to the folder to which the current song belongs.
- 6. ▲♥ : Selects a track (song).
- 7. ►, ENTER button: Plays the selected track (song) or displays the files in the selected folder.
- 8. **ANYKEY :** To display the play mode window. (Repeat or Play Option).

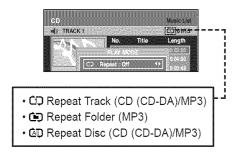


During playback, press the ANYKEY button. The Repeat mode will be highlighted.



Playback

Press the **I** buttons to select the desired repeat 2 mode you want to play repeatedly, then press the ENTER button.



- To return to normal playback -



Press the CANCEL button to return to normal playback.

Play Option Mode

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

📢 TRACK	1			01/15
		o. Tit	ő,	ength
				1.001.00
	C)Repos	1:0#	0	
	R: Play o		a) (P	
Der 187				
CDDA		is TPA	ici (0.024
		$p \rightarrow m$		0.03.4



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.

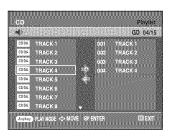


You can register a maximum 30 tracks in the playlist.

- In still mode, press the **ANYKEY** button. The Play option will be highlighted.
- 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.



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

Playing a Picture Disc



Insert a JPEG into the disc tray.

⊙ CD		
Disc Navigation	DIvX	
() .	Photo	
ø	Music	•

- Press the ▲▼ buttons to select Disc Navigation, and then press the ENTER or ► button.
- Press the ▲▼ buttons to select Photo, and then press the ENTER or ► button.
- Press the ▲♥ ◀ ► buttons to select a picture.



- To see the next 8 pictures, press the ▶►I button.
- To see the previous 8 pictures, press the Ide button.



If you press the ►II button, the Slide Show Speed screen will appear. Press the ◀► 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 (Ⅲ), Slide show (№), Rotation (ጦ) or Zoom (९)) using the <>



- : Returns to the Album screen.
- : 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 picture is enlarged up to 4X(four times the normal size).

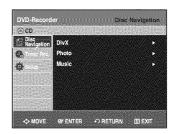
 \rightarrow normal size \rightarrow 2X \rightarrow 4X \rightarrow 2X–

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



MPEG4 File is used to contain the audio and video data. MPEG4 File with following extensions can be played. - .AVI, .DIVX, .avi, .divx

Insert a MPEG4 Disc into the disc tray.



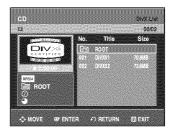


Press the $\blacktriangle \forall$ buttons to select the **Disc Navigation**, and then press the **ENTER** or \blacktriangleright button.



3

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





menu screen.

Press the ▲♥ buttons to select the avi file (DivX), then press the ENTER, ▶ or PLAY button.



When MPEG4 file is played, you can use following functions (see next page). Pressing the **STOP** button once during playback will display the file list, pressing the button again will exit the

Playhack

E Constantino de la constantin

MPEG4 Function Description

$\overline{\bigcirc}$
) Diputoo
ninutes.
)or⊙)
er speed.
I (⊙)
]
trol.
1 4.x
C3, .DTS
sub,
ve exact-
G4 file
comput-
comput- lec Type,

not supported.



- Insert a standard VHS tape into the VCR deck. · When a tape is inserted, power will turn on automatically.
- 2

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.

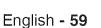


Press the **(STOP**) button on the remote control or on the front panel of the unit.



The Tracking adjustment removes the white lines that sometimes appear during playback because of slight differences in recording decks. The **CH/TRK** $(\wedge \vee)$ 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.



Playback

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 an S-VHS tape.



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.

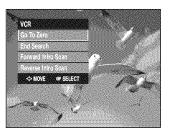
The VCR will rewind or fast forward, searching for the 0:00:00 counter position, and then automatically stop at that position.

Go To Zero
00:00:49
10.01.02

End Search

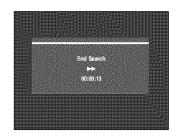
Use this feature when you want to search for a blank position to record a program on a cassette.

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



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

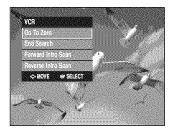
The VCR will fast forward, searching for a blank position, and then automatically stop at that position. If the VCR reaches the end of the tape during end search, the tape will be ejected.



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.

Recording

Before Recording	62
Recordable discs	62
Recording Formats	63
Recording Mode	63
Unrecordable video	63
Recording the Current Channel you are wat	ching64
Recording from External Devices	65
Recording through a DV Input jack	65
Making a One Touch Recording(OTR)	66
Making a Timer Recording	
Editing the Scheduled Record List	
Deleting a the Scheduled Record List	

Basic VCR Record	ling	59
Check Remaining	Time	70
Special Recording	Features	70
Copy to DVD or V	/CR	71

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
	RW RW	R	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	VD M. J.	Samsung	Х	Recordable
DVD-RAM	VR Mode	Other Company	Х	Recordable
		Samsung	finalized	Not recordable
	VR Mode	oanisung	not finalized	Recordable
	VIT IVIOUE	Other Company finalized	finalized	Not recordable
DVD-RW		e and e componing	not finalized	Recordable
DVD-NW		Samsung	finalized	Not recordable
	V Mode	V Mode not	not finalized	Recordable
		Other Company	finalized	Not recordable
		ouler company	not finalized	Not recordable
		Samsung	finalized	Not recordable
DVD-R	V Mode	ounoung	not finalized	Recordable
DIDIK	Y INIOUC	Other Company	finalized	Not recordable
		Other Company	not finalized	Not recordable
DVD+RW		Samsung	Х	Recordable
DADAIVAA	-	Other Company	Х	Not recordable in some cases
		Samsung	finalized	Not recordable
DVD+R		Janibuly	not finalized	Recordable
UVUTR	_	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-VR335.
- 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.

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.

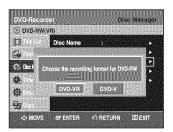
DVD-RAM: Use after formatting the disc.



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



When using a DVD-RW disc, you can change the mode. Refer to Formatting a Disc on page 90.



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/+R

 You can also make your own chapters on DVD+RWs and edit them using the Chapter Edit menu. (see pages 79 to 81)

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 66.	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 45.)

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





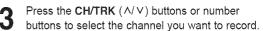
- 1. Check to make sure the antenna cable is connected.
- 2. Check the remaining time on the disc.

DVD-RAM/DVD±RW/+R discs should be formatted or initialized in advance before beginning recording. (See page 63.)

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

Press the OPEN/CLOSE button to close the disc trav

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



- Press the REC SPEED button repeatedly, to select the Δ recording speed (quality).
 - 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 (Λ/\vee) buttons while recording pauses.
- 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 Recording through the External Devices DV Input jack Follow these directions to record onto a disc or a tape You may control your Camcorder using the IEEE1394 from External Devices such as a Camcorder. (DV) interface. Follow these directions to record onto a disc or tape from a camcorder that has a DV output jack. Connect the AV out jack of your External Device to the AV IN jack on the front or rear of your DVD Connect the DV output jack of your camcorder to Recorder & VCR using the Audio/Video Cable. 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 AV In mode by pressing the INPUT SEL. button Power on your DVD Recorder & VCR and switch on the remote control. to DV mode by pressing the INPUT SEL. on the The front panel display changes in the following remote control. sequence depending on the Video input setting in the menu. Press the REC SPEED button repeatedly to select AV1: → Channel Number → AV 1 → AV 2 → DVthe recording speed(quality). \rightarrow SP \rightarrow LP \rightarrow EP \rightarrow XP \neg S-Video: → Channel Number → SUPER → AV 2→ DV → If the input is set to DV, a playback/record menu that Press the REC SPEED button repeatedly to select enables camcorder control appears on the top of the the recording speed(quality). screen. \rightarrow SP \rightarrow LP \rightarrow EP \rightarrow XP \rightarrow When your DVD Recorder & VCR is in the Stop mode, start playback on your external device. Press the REC button on your DVD Recorder & The DV device is VCR to start recording when the desired video is 1.1101 O'SELEC O RETURN displayed from the external device. Select the Play icon on the upper part of the screen to playback the camcorder and find the Press the STOP button on your DVD Recorder & starting position to copy. VCR when the recording is finished. To start recording, Press the **4** button to select rec(•) icon in the top side of the screen, then Also refer to the user manual for your External press the ENTER button. Devices when recording through AV In jacks on Note You can press the REC button on the remote conthe DVD/VCR using Audio/Video cable. trol to start recording. To display playback related You can also record an external source through icons on the screen, press either direction button S-Video cable. (see page 26). on the remote control. For more information on changing the Video Input from AV1 to S-Video, see page 39(Video Press the STOP button on your DVD Recorder & Input). VCR when the recording is finished. 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. Recording



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** (\wedge/\vee) 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

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.

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

 $\rightarrow 0:30 \rightarrow 1:00 \rightarrow 1:30 \rightarrow 2:00 \rightarrow 3:00 \rightarrow 4:00 \rightarrow \text{Off-}$

• 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.



The clock (Setup – Clock Set) must be set before proceeding with a timer recording. (See page 33)

- 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-RAI	A(VR)
Ø	Timer Record
G.	Scheduled Record List
0	
決 Timer Rec	
ø	
ā:	

Ę

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 $\blacktriangle V \triangleleft \triangleright$ 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.



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).

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.

 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.) Recording

	diting Record		Scł		uleo	t
Follo	w these direct	ions to ec	Dyb-Rw lit the tir	(Dea mer rec	ord list.	DVD-R
4	Press the ME	NU butto	n.			
2	Press the AV press the EN				Rec., tł	nen



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



Press the **AV** button to select the number of the Д. 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 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 67)



Press the ENTER button to confirm the edited set-6

ting.

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





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.

Π	Timer Record	•
3	Scheduled Record List	-
ø		
🔆 Timer R	r.	
Ġ.		
7 3		



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

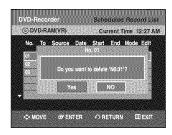
• The Edit and Delete items are displayed.



5

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

• You will be prompted with a 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.

7

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

Note

You can not delete programs that are currently being recorded.



Before starting

1. Check TV channel and Antenna connections.

2. Check the remaining time on the tape.

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 pressing the \bullet (**REC**) button repeatedly.

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.
- 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 time (3 times SP).

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

Maximum Recording Time - SP vs. SLP

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

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.

Press the •(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 (Λ/ \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 66)

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.
- \otimes
- 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.

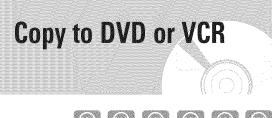


Image: ND-RAW Image: DVD-RW Image: D	O MPEGA
--	------------

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.



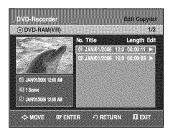
Press the **▲**▼ buttons to select **Copy**, then press the **ENTER** or **▶** button.



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 82)

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-RAM(VR)		Break Walking	1/		
and the second	inde	No. Title 01 JAN/01/2005	E-7		
		STAND ODD	2015-00		
	06 12:00 AM		Teres		
C 1Sone C JANEN2					



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

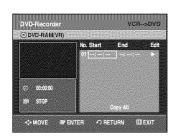
2 Press the ▲▼ buttons to select Copy, then press the ENTER or ► button.

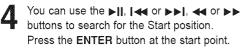




Recording

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







5

You can use the ►II, I≪I or ►►I, ≪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.

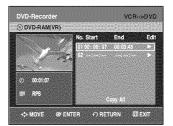


6

Press the ▲♥ buttons to select desired copylist, then press the ENTER or ▶ button.



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.
- You can also copy from DivX to VCR when the desired DivX is played back or highlighted in the file list. If the DivX disc has various files, only the selected file will be played back

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.

ing inc the Electronic contraction and a second second
Basic Editing (Title List)75
Renaming(Labeling) a Title
Locking(Protecting) a Title76
Deleting a Title
Deleting a Section of a Title77
Editing a Chapter79
Dividing a Title81
Advanced Editing (Playlist)82
Creating a playlist82
Playing Titles in the Playlist83
Renaming a Playlist Title
Editing a Scene for the Playlist
Copying a Playlist Title to the VCR87
Deleting a Playlist Title from the Playlist
Disc Manager88
Editing the Disc Name
Disc Protection
Formatting a Disc90
Finalizing a disc
Unfinalizing a disc (V/VR mode)91
Delete All Title Lists
Edit Compatible93

Playing the Title List

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

73

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.

O DVD-RAM	(VR)	
🛄 Title List	Title List	•
G		
0		
Ø		
0		
230		

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



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 73~76)



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



Press the STOP button to stop playing.

5 To return the title list screen, press the TITLE LIST button.

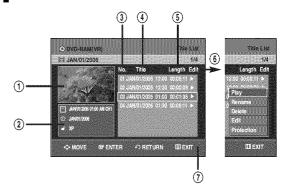


You can also play a recorded program by pressing the ANYKEY button.



- Press the **AV** 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)
- (i) 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 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.

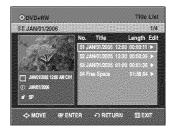
When you operate free space function, on-air TV images will appear on the left side of the title list.



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.



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



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



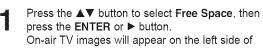
- You will be prompted with the confirmation message 'Do you want to delete?'.
- Press the ◀ ► buttons to select **Yes**, then press the **ENTER** button. The selected title has been deleted and Free

Space is displayed.



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

- Recording a title





Press the ENTER button.



Renaming(Labeling) a Title

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

() DVD-AM	OvD-RW	OVD4RW	OVID-AR	

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 P re

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





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

	AN/01/2005 01:00 AM CH1
0 8 5 1 0 V W X Y Z 4 6 6 4 6 6 8 8 9 4 5 4 5 6 7 8 6 7 8 8 9 9 9 X Y Z 5 6 8 6 4 6 7 8 8 9 10 10 16 8 9 4 1 9 8 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Аворенании ким ко
	O R S T U V W X Y Z a b c die
	9 h li y k i m n b b c y s t u

Select the desired characters using the **AV** < 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 **AV < >** buttons to select Save, and then press the ENTER button.

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

E Sport(A1)		
	No. Tilo	Length Edit
	oz (ANICI/2008) DOGO OVAL	• 90.00.00 € 00.000
Sport(A1)	14.1414/01/2006	niad general 🗣
er XP		



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.

# JAN/01/2006	No. Title	1/ Length Ed
	01 JAN/01/2008	12/01/00/00/11/16
- N -		Green College
	ICH OF LAND LODG	01.30 30:00:11 💌
o Markuzios # SP		



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

	No. Title	Length Edit
- 44		Play
JAN012006 12:00 AM CH1		Delete Edit Protection



Δ

Press the $\blacktriangle {\bf V}$ buttons to select Protection, then press the ENTER or ► button.



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. ($\mathbf{G} \rightarrow \mathbf{B}$)



Deleting a Title

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



4

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 in the Title List, then press the ENTER or ► button.



3

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.

- 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.

Note

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.

Sector Contractor	No. Title	Length Edi
2		6 12:90 00:00:11 🖈
		5 12:30 00:00 09 🕨
and the pairs	I	ologiogioniae
240001/2006 12:00	MCCH1	
 34581/2008 87 59 		

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



Press the AV buttons to select Edit, then press the ENTER or ▶ 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

ſ

- 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<<,>>).



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





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







Press the **I** 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.



(À

- 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.



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.



• Playback related buttons: (>II,I44,>>I,44,>>).



added.

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

 ODVOLRW
 Title List
 3/4

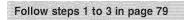
 EF JAN01/2005
 3/4
 3/4

 Image: Strategy of the strate



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 93)
- 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.





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



• Playback related buttons: (>II,I44,>>I,44,>>).

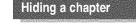
5 Press the ◀ ► buttons to select Delete, and then press the ENTER button. The selected chapter will be deleted.



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.



Follow steps 1 to 3 in page 79



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



Playback related buttons: (>II,I44,>>I,44,>>).

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

The selected chapter is hidden.



- To finish the operation, select Return using the
 ◄ ▶ buttons then press the ENTER button.

Note

- If there is only one chapter, it can't be hidden.
- Hidden/Show menu is not available if there is only one chapter in the selected title.
- The hidden chapters are not shown on the existing DVD players.
- Hidden chapters will be played when playing back the entire title. You can make the hidden chapter appear by pressing the ENTER button in the Show menu.

Deleting all chapters

Follow steps 1 to 3 in page 79



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

ØDV	B+RW Chapte	r Sdh
	Do you want to detete all chapter marks?	
e =	Yes No	0:00
د ج/	i Debete Hidden Debe All Re DOVE GrENTER のRETURN WE	2XIT.



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

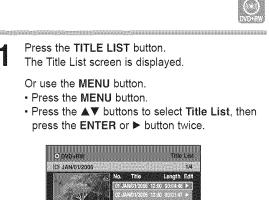


When deleting a chapter, only the chapter marker is actually deleted, not the recorded video.

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.



ANOTIZOU EXOLUCIÓN (120) DURAN N.
 ANOTIZOU EXOLUCIÓN (120) D

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,I44,44,>>).
- 5

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

Do you want to divide the title?	
(Once divided, titles cannot be merged back.)	
No Yes	

6

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

The selected title has been divided into two titles.

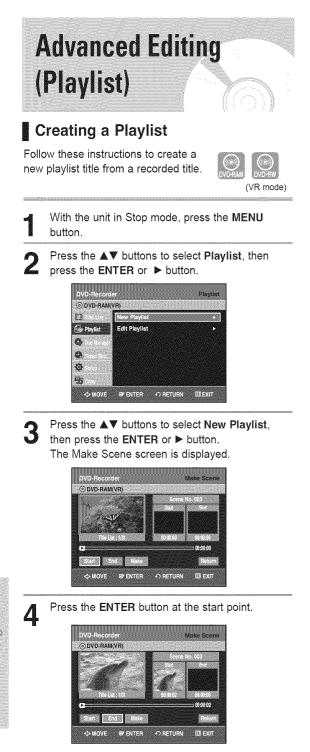




If the point length to be divided is less than 5 seconds, you will be prompted with the message 'The range is too short.'.

Press the MENU button after the operation has finished.

The Title List screen will disappear.



- 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≪4,▶▶I,≪4,▶▶).

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.

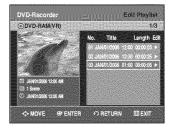


- You can check and see all the scenes on Edit Playlist screen.
- Repeat steps 1~6 if you want to make a new playlist.
- Repeat steps 4~6 if you want to add scenes to the playlist.

- To return to Edit Playlist menu -

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

The Edit Playlist screen is displayed.





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

 \odot

- 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.



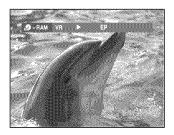
Press the ▲▼ buttons to select the title you want to play from the Playlist, then press the ENTER or ▶ button. The Edit Playlist menu is displayed : Play.

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

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

The playlist titles will be played back.





Λ

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.

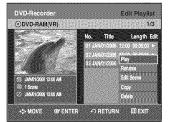
- Press the MENU button with the disc stopped.
- Press the ▲♥ buttons to select Playlist, then press the ENTER or ▶ button.
- Press the ▲▼ buttons to select Edit Playlist, then press the ENTER or ▶ button.





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



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

The Rename screen is displayed.

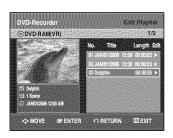


Enter the desired characters using the ▲▼ ◀ ► buttons.



- This function is the same as the Rename function in renaming the title list. (See page 75.)
- The maximum number of characters that can be entered is 31.

Press the AV < b 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

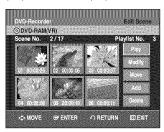


2

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

Scene No.	2/7	:	layiist No
	1 all	$\mathbb{C}^{Na/d}$	0.50
1	1.2	<u> </u>	Bodily
1 N .	100		<u>. 666</u>
04 32-00-08	15 (10:00-10)		Distant.

4 Press the ▲▼◀ ► buttons to select the scene you want to play, then press the ENTER button. The playlist title to be played is selected.



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)

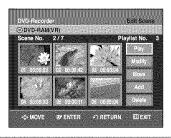
To setup, follow steps 1 to 3 in page 84.



5

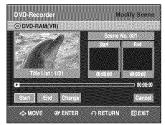
5

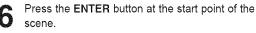
Press the ▲▼ ◀ ► buttons to select the scene you want to modify, then press the ENTER button.



Press the **AV** buttons to select **Modify**, then press the **ENTER** button.

The Modify Scene screen is displayed.







- 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.

	6+	Scene ha set	
	-	10.000	Water and
and the second			1.1
Tille Liel	1/01	0,034	00:00:10
) 00:00;

- The image and ending point time are displayed in the End window.
- 8

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



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

To setup, follow steps 1 to 3 in page 84.

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



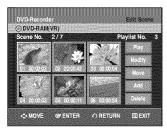
5

Press the $\blacktriangle \nabla$ buttons to select Move, then press the ENTER button.



• A yellow selection window is displayed on the scene to be moved.

6 Press the ▲▼ ◀ ► buttons to select the position to which you want to move the selected scene, then select the ENTER button.



• The selected scene is moved to the selected position.





Depending on the kind of disc, the displayed screen may have a slight difference.

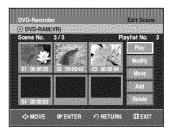
Adding a Scene

To setup, follow steps 1 to 3 in page 84.

4

Press the ▲▼ ◀ ► 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.





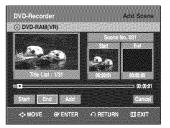
Press the **▲**♥ buttons to select **Add**, then press the **ENTER** button.

The Add Scene screen is displayed.





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



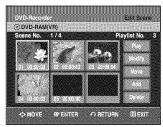
- The image and starting point time are displayed in the Start window.
- Select the end point of the section where you want to add the new scene using the playback related buttons (▶II,I◄4,▶▶I,◄4,▶►).

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.

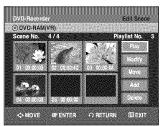


• The section you want to add is inserted prior to the scene selected in step 4.

Deleting a Scene

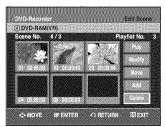
To setup, follow steps 1 to 3 in page 80.

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.

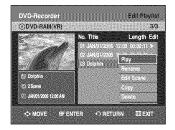
- · Press the MENU button with the disc stopped.
- Press the ▲▼ buttons to select Playlist, then press the ENTER or ▶ button.
- Press the ▲▼ buttons to select Edit Playlist, then press the ENTER or ▶ button.

	No. Title	Length Edit
1. A.	01 JAN 01 2006	12:00-00:00:11 >
-31V	C 34N/002005	12.30 (0.00 (0) 🕨
	Si Dolahin	3001.36 🕨
🕀 JANO1/2006 12:00 AM		
🖽 1 Scene		
C JANO1/2006 12:00 AM		



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.





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.

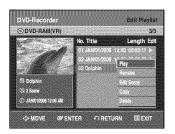
Or use the MENU button.

- · 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 2 to delete from the Playlist, then press the ENTER or ▶ button.

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





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

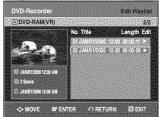
 You will be prompted with the delete confirmation message 'Do you want to delete?'.





Press the **I** buttons to select **Yes**, then press the ENTER button. It automatically returned to the Edit Playlist screen after the delete operation has finished.







Editing the Disc Name

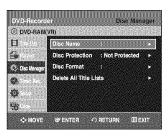
Follow these instructions to give a name to a disc.



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

🕑 DVD-RAM	(VR)	
🗍 Title List	Title List	
L.		
3 .		
9 3		
2		
)		
8		

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 **AV** < > buttons.



- · This function is the same as the Rename function in renaming the title list. (See page 75.)
- The maximum number of characters that can be entered is 31



Press the **AV < >** buttons to select Save, then press the ENTER button. A disc name is given to the disc.





- You may need to clear disc protection before beginning editing. (see page 89)
- 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-RAN	(VR)	
	Title List	•
.		
>		
A		
¥		
6		



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

⊙ DVD-RAI			
П	Disc Namé		
<u>.</u>	Disc Protection	: Not Protected	
🕗 Disc Manag	Disc Format		
B	Delete All Title Li	sts	
ø			
W			



Press the ▲♥ buttons to select Disc Protection, then press the ENTER or ▶ button.







Press the **AV** button to select **Protected**, then press the ENTER or > button.

	I(VR)		
]	Disc Name	4	
.	Disc Protection	: Protected	•
> Disc Manage	Disc Format		
<u>)</u>	Delete All Title L	ists	•
\$			
8			
-C- MOVE	eventer 4	Tertien P) EXIT

Formatting a Disc

Use these instructions to format a disc. Clear disc protection before formatting.

	O D HAN	(O) DVD-TRW	OV/DHRW	
--	---------	----------------	---------	--

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



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



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



DVD-RAM/+RW

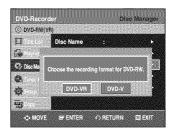
 You will be prompted with the confirmation message 'Do you want to format disc?'.



• 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.'





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.

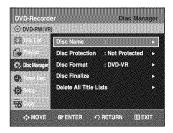


With the unit in Stop mode, press the **MENU** button.

🕙 DVD-RW(VR)	
🔄 Thie List	Title List	
4		
3		
Эл		
ġ.		
8		



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



3

Press the ▲▼ button to select **Disc Finalize**, then press the **ENTER** or ► 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.



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.

OVD-RW(V	R:F)	
🗋 Thie List	Title List	•
2		
2		
).).		
%		
* *		



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





3

Press the ▲♥ button to select **Disc Unfinalize**, then press the **ENTER** or ▶ 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?'



Press the **◄** ▶ buttons to select **Yes**, then press the **ENTER** button. The disc is unfinalized.



Δ

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.



- 2
 - Press the ▲♥ buttons to select **Disc Manager**, then press the **ENTER** or ► button.

11	Disc Name	<u></u>	
4 (*	NOTIFIC CONCERNMENT	: Not Protected	
	Disc Format		
3	Delete All Title Li	sts	
ø			
93			
<> MOVE	GFENTER 🕢	RETURN 🔟 🖻	IIT



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



• 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

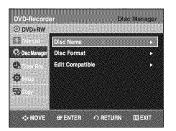
For DVD+RW discs, this function needs to be performed in order to view edited chapters or titles on a standard DVD player.

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.

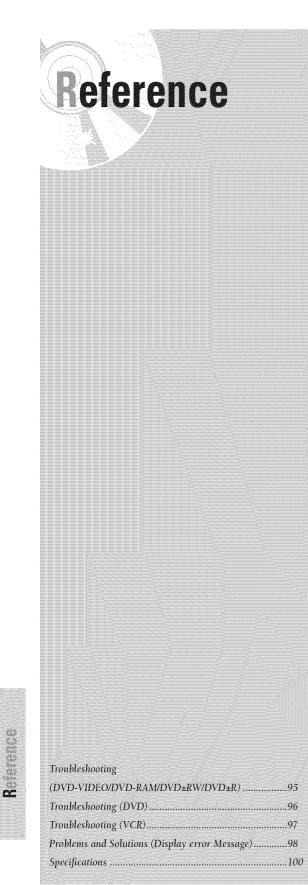


- You will be prompted with the confirmation message 'Do you want to execute Edit compatible? This may take more than an hour depending on the configuration.'.
- Δ

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)

If your product malfunctions, go through the check points below before contacting a Samsung authorized service center,

Problem	• Check whether the power cord is securely plugged into the power outlet. • Did you press the power button of your DVD Recorder & VCR.		
No power.			
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 44.)		
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)) No sound will be heard when scanning an MPEG4 disc. 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. 		

Reference

Troubleshooting (DVD)

Problem	Explanation/Solution	
 ⊘ icon appears on the screen. You cannot use the operation or function due to one of the following reason (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 reason 		
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 on 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 inse 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 displaye 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 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. 	
No HDMI output.	 Check the Video output is HDMI enabled. Check the connection between the TV and the HDMI jack of the DVD Recorder &VCR. See if your TV supports this 480p/720p/1080i DVD Recorder &VCR. 	
Abnormal HDMI output screen.	 If snow noise appears on the screen, it means that TV does not support HDCP (High-bandwidth Digital Content Protection). 	
HDMI output Jitter	 Check your TV system setup correctly. Screen Jitter may occur when the frame rate is converted from 50Hz to 60Hz for 720p/1080i HDMI (High Definition Multimedia Interface)Output. Please refer to the user 's manual of your TV. 	

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. 	
Timer 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 (A/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 89.	
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 sure there are no scratches or dirt on the disc.	
The disc cannot be played, Please check 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.

	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 75Ωoad, sync negative	
		S-Video input (Y: 1.0Vp-p, C: 0.286Vp-p at 75Ωoad)	
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 that Input Video 1.0 V p-p at 75Ωoad, sync negati S-Video input (Y: 1.0Vp-p, C: 0.20 Max. Audio Input Level 2Vrms DV Input IEEE 1394(4p) compatible jack Regular TV broadcasting: VHF (2) Cable TV broadcasting: 1~125 Audio output jacks 1, 2 Optical/Coaxial digital audio output Min. 100 dB signal-to-noise ratio Max. 0.005% total harmonic distor at average 1 KHz Video Video output jacks 1 Video Video output jacks 1 S-Video output 1 (Y:1.0Vp-p, Pr: 0.7) HDMI output (480p, 720p, 1080i) MPEG-II Audio Compression format Picture Compression format MPEG-II Audio Compression format DVD Picture Compression format MPEG-II Audio Compression format Dolby AC-3 256kbps Recording Quality XP (about 8 Mbps), SP (about 4 I)	2Vrms		
mpat	DV Input	IEEE 1394(4p) compatible jack	
Receivable Channels	Receivable Channels	Regular TV broadcasting: VHF (2~13), UHF (14~69)	
		Cable TV broadcasting: 1~125	
	Audio	Audio output jacks 1, 2	
		Optical/Coaxial digital audio output support	
		Min. 100 dB signal-to-noise ratio	
		Max. 0.005% total harmonic distortion (T.H.D)	
Output		at average 1 KHz	
	Operating temp. Other conditions Video Max. Audio Input Level DV Input Receivable Channels Audio Video Video Proture Compression format Audio Compression format Recording Quality	Video output jacks 1	
		S-Video output 1 (Y:1.0Vp-p, C:0.286Vp-p at 75Ωoad)	
		Component output	
		(Y: 1.0Vp-p, Pb: 0.70Vp-p, Pr: 0.70Vp-p at 75Ωoad)	
		HDMI output (480p, 720p, 1080i)	
	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	
	Audio S/N Ratio	Min. 75dB	
	Audio frequency characteristics	20 Hz ~ 20 KHz	

Audio Output

Specifications

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.

SAMSUNG is obligations with respect to software products distributed by SAMSUNG under the SAMSUNG brand name are set forth in the applicable end user license agreement. Non-SAMSUNG hardware and software products, if provided, are on an "AS IS" basis. Non-SAMSUNG manufacturers, suppliers, publishers, and service providers may provide their own warranties.

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 surge; 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.

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE LISTED AND DESCRIBED ABOVE, AND NO WAR-RANTIES WHETHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL APPLY AFTER THE EXPRESS WAR-RANTY PERIODS STATED ABOVE, AND NO OTHER EXPRESS WARRANTY OR GUARANTY GIVEN BY ANY PER-SON, FIRM OR CORPORATION WITH RESPECT TO THIS PRODUCT SHALL BE BINDING ON SAMSUNG. SAM-SUNG SHALL NOT BE LIABLE FOR LOSS OF REVENUE OR PROFITS, FAILURE TO REALIZE SAVINGS OR OTHER BENEFITS, OR ANY OTHER SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES CAUSED BY THE USE, MISUSE OR INABILITY TO USE THIS PRODUCT, REGARDLESS OF THE LEGAL THEORY ON WHICH THE CLAIM IS BASED, AND EVEN IF SAMSUNG HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. NOR SHALL RECOVERY OF ANY KIND AGAINST SAMSUNG BE GREATER IN AMOUNT THAN THE PURCHASE PRICE OF THE PRODUCT SOLD BY SAMSUNG AND CAUSING THE ALLEGED DAMAGE. WITHOUT LIMITING THE FOREGOING, PURCHASER ASSUMES ALL RISK AND LIABILITY FOR LOSS, DAMAGE OR INJURY TO PUR-CHASER AND PURCHASERIS PROPERTY AND TO OTHERS AND THEIR PROPERTY ARISING OUT OF THE USE, MISUSE OR INABILITY TO USE THIS PRODUCT SOLD BY SAMSUNG NOT CAUSED DIRECTLY BY THE NEGLI-GENCE OF SAMSUNG. THIS LIMITED WARRANTY SHALL NOT EXTEND TO ANYONE OTHER THAN THE ORIGI-NAL PURCHASER OF THIS PRODUCT, IS NONTRANSFERABLE AND STATES YOUR EXCLUSIVE REMEDY.

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.

Region	Country	Customer Care Center 🕾	Web Site
	CANADA	1-800-SAMSUNG (7267864)	www.samsung.com/ca
North America	MEXICO	01-800-SAMSUNG (7267864)	www.samsung.com/mx
	U.S.A	1-800-SAMSUNG (7267864)	www.samsung.com
	ARGENTINE	0800-333-3733	www.samsung.com/ar
	BRAZIL	0800-124-421	www.samsung.com/br
	CHILE	800-726-7864(SAMSUNG)	www.samsung.com/cl
	COSTA RICA	0-800-507-7267	www.samsung.com/latin
	ECUADOR	1-800-10-7267	www.samsung.com/latin
	EL SALVADOR	800-6225	www.samsung.com/latin
	GUATEMALA	1-800-299-0013	www.samsung.com/latin
Latin America	JAMAICA	1-800-234-7267	www.samsung.com/latin
	PANAMA	800-7267	www.samsung.com/latin
	PUERTO RICO	1-800-682-3180	www.samsung.com/latin
	REP. DOMINICA	1-800-751-2676	www.samsung.com/latin
	TRINIDAD & TOBAGO	1-800-7267-864	www.samsung.com/latin
	VENEZUELA	1-800-100-5303	www.samsung.com/latin
	BELGIUM	02 201 2418	www.samsung.com/be
	CZECH REPUBLIC	844 000 844	*
	DENMARK	38 322 887	www.samsung.com/cz www.samsung.com/dk
		09 693 79 554	¥¥
	FINLAND FRANCE	09 693 79 554 08 25 08 65 65 (0,15 € /Min)	www.samsung.com/fi
			www.samsung.com/fr
	GERMANY	01805 - 121213 (€ 0,12/Min)	www.samsung.de
	HUNGARY	06 40 985 985	www.samsung.com/hu
	ITALIA	199 153 153	www.samsung.com/it
Europe	LUXEMBURG	02 261 03 710	www.samsung.lu
	NETHERLANDS	0900 20 200 88 (€ 0.10/Min)	www.samsung.com/nl
	NORWAY	231 627 22	www.samsung.com/no
	POLAND	0 801 801 881	www.samsung.com/pl
	PORTUGAL	80 8 200 128	www.samsung.com/pt
	SLOVAKIA	0850 123 989	www.samsung.com/sk
	SPAIN	902 10 11 30	www.samsung.com/es
	SWEDEN	08 585 367 87	www.samsung.com/se
	U.K	0870 242 0303	www.samsung.com/uk
CIS	RUSSIA	8-800-200-0400	www.samsung.ru
UI5	UKRAINE	8-800-502-0000	www.samsung.com/ur
	AUSTRALIA	1300 362 603	www.samsung.com/au
	CHINA	800-810-5858, 010- 6475 1880	www.samsung.com.cn
	HONG KONG	2862 6001	www.samsung.com/hk
	INDIA	3030 8282	www.samsung.com/in
		1600 1100 11	
Acia Dacifia		0800-112-8888	www.samsung.com/id
Asia Pacific		0120-327-527	www.samsung.com/jp
	MALAYSIA	1800-88-9999	www.samsung.com/my
	PHILIPPINES	1800-10-SAMSUNG (7267864)	www.samsung.com/ph
	SINGAPORE	1800-SAMSUNG (7267864)	www.samsung.com/sg
	THAILAND	1800-29-3232 02-689-3232	www.samsung.com/th
	TAIWAN	0800-329-999	www.samsund.com/tw
		0800-329-999 1 800 588 889	www.samsung.com/tw www.samsung.com/yn
Middle East & Africa	TAIWAN VIETNAM SOUTH AFRICA	0800-329-999 1 800 588 889 0860 7267864 (SAMSUNG)	www.samsung.com/tw www.samsung.com/vn www.samsung.com/za



SAMSUNG ELECTRONICS AMERICA, INC.

105 Challenger Road, Ridgefield Park, N.J. 07660-0511 TEL: 1-800-SAMSUNG (726-7864)



AK68-00995E-00