

Instruction Manual

DVD-R119











 $\frac{\text{www.samsung.com}}{\text{AK68-00870A-00}}$

Warning



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





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



This symbol indicates important instructions accompanying the product.

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

WARNING: To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.

CAUTION: DVD RECORDER USES AN INVISIBLE LASER BEAM WHICH CAN CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE RECORDER CORRECTLY 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.

This product satisfies CE 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.

IMPORTANT NOTE

The mains lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug. If it requires replacing, a fuse approved to BS1362 of the same rating must be used.

Never use the plug with the fuse cover omitted if the cover is detachable. If a replacement fuse cover is required, it must be of the same colour as the pin face of the plug. Replacement covers are available from your dealer.

If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance.

However, if there is no alternative to cutting off the plug, remove the fuse and then safely dispose of the plug. Do not connect the plug to a mains jack, as there is a risk of shock hazard from the bared flexible cord.

The product unit accompanying this user manual is licenced under certain intellectual property rights of certain third parties. This licence is limited to private non-commercial use by end-user consumers for licenced contents.

No rights are granted for commercial use.

The licence does not cover any product unit other than this product unit and the licence does not extend to any unlicenced product unit or process conforming to ISO/IEC 11172-3 or ISO/IEC 13818-3 used or sold in combination with this product unit. The licence only covers the use of this product unit to encode and/or decode audio files conforming to the ISO/IEC 11172-3 or ISO/IEC 13818-3. No rights are granted under this licence for product features or functions that do not conform to the ISO/IEC 11172-3 or ISO/IEC 13818-3.

Precaution



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, the point where they exit from the apparatus.
- 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, 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 recorder off and on again with the STANDBY/ON 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 may be damaged.





Holding discs

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



DVD-RW/-R

 Clean with an optional DVD-RAM/PD disc cleaner (LF-K200DCA1 where available).
 Do not use cleaners or cloths for CDs to clean DVD-RW/-R discs.



DVD-Video, Audio-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 suddenly from a cold place to a warm place, condensation may generate on the operating parts and lens and cause abnormal disc playback. If this occurs, do not connect the plug to the power outlet and wait for two hours. Then insert the disc and try to playback again.
- Be careful not to harm the disc because the data on these discs is highly vulnerable to the environment.

Disc Specifications

Disc Type

DVD-Video

- A digital versatile disc (DVD) can contain up to 135-minutes of images, 8 audio languages and 32 subtitle languages. It is equipped with MPEG-2 picture compression and Dolby digital surrounding, allowing you to enjoy vivid and clear theatre quality images in the comfort of your own home.
- When switching from the first layer to the second layer of a dual-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-RW/-R recorded in Video Mode is finalised, it becomes DVD-Video.

Audio CD

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

CD-RW/-R

- 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

- playback time, 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 in Video Mode is finalised, it becomes DVD-Video.
- You can record onto the available space on the disc and perform editing functions such as giving titles to discs and programmes and erasing programmes before finalising.
- 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 finalised 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 the Video and VR Modes.
- Once a DVD-RW recorded in both the Video and VR Modes is finalised, you cannot perform additional recording.
- Once a DVD-RW recorded in Video Mode is finalised, it becomes DVD-Video.
- In both modes, playback can be performed before and after finalisation, but additional recording, deleting and editing can not be performed after finalisation.
- 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.
- A DVD-RW blank disc is initialized to VR Mode when first initialized.

COPY PROTECTION

- Many DVD discs are encoded with copy protection.
 Because of this, you should only connect your DVD RECORDER 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 authorised by Macrovision Corporation, is intended for home and other limited viewing uses only unless otherwise authorised by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Protection

This DVD RECORDER can allow you to protect the contents of your discs, as described below.

- Programme-protected: See page 78 "Locking(Protecting) a Title"
- Disc-protected: See page 92 "Disc Protection"
- * DVD-RW/-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-RW/-R manufacturer.
- * Use of poor quality DVD-RW/-R discs may cause following unexpected problems including, without limitation, recording failure, loss of recorded or edited materials or damage to the recorder.

Disc Format

Using MP3 disc

- CD-R/-RW with MP3 files recorded with ISO9660 or JOLIET format can be played back.
- DVD-RW with MP3 files recorded with UDF 2.0 format can be played back.
- Only MP3 files with the ".mp3" or ".MP3" extension can be played back.
- For MP3 files recorded with a VBR(Variable Bit Rates), from 32 Kbps to 320 Kbps, the sound may cut in out.
- Playable bit-rate range is from 56 Kbps to 320 Kbps.
- The unit can handle a maximum of 100 files and 100 sub folders under a folder.

Using JPEG disc

- CD-R/-RW with JPEG files recorded with ISO9660 or JOLIET format can be played back.
- DVD-RW with JPEG files recorded with UDF 2.0 format can be played back.
- Only JPEG files with the ".jpg" or ".JPG" extension can be displayed.

- The unit can handle a maximum of 100 files and 100 sub folders under a folder.
- MOTION JPEG and progressive JPEG are not supported.

DVD-RW (VR mode)

- This is a format that is used for recording data on a 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 RECORDER.

DVD-RW (V mode)

- This is a format that is used for recording data on a DVD-R disc. The disc can be played by existing DVD RECORDER once it has been finalised.
- If a disc that has been recorded in Video Mode by a different maker's recorder but has not been finalised, it cannot be played or additionally be recorded by this recorder.

Do not use the following discs!

 LD, CD-G, CD-I, CD-ROM, DVD-ROM, DVD+R and DVD+RW discs should not be used in this product. [Note]

Disc types that can be played : CD/CD-RW/-R/MP3/JPEG/DVD-Video/DVD-RW/-R.

For a DVD-RW/-R disc, which has been recorded in Video Mode on another component, it can play only when finalised.

- 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 "Please check the regional code of the disc." will be displayed.
- If your DVD-RW disc is an illegal copy or is not in DVD video format, it may also not be playable.
- * We recommend using one of the discs in the table as they have been confirmed to be compatible with this unit. Other discs may not perform correctly.

Media	Disc	Speed
	TDK	4x
	Beall	4x
DVD-R	That's	4x
	Maxell	4x
	Panasonic	4x
	TDK	2x
	Maxell	2x
DVD-RW	Optodisc	2x
	Radius	2x
	Verbatim	2x

Disc	Maximum no. of recordings by disc type
DVD-RW	1,000
DVD-R	1

 We take no responsibility and offer no compensation for any recording failure, loss of recorded or edited material and/or damage to the recorder arising from usage of unrecommended discs.
 English - 5

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General Features

The DVD RECORDER allows you to record and play high quality digital video on DVD-RW/-R discs. You can also edit digital images on DVD-RW/-R discs.

High quality digital audio and video recording and playback

Record up to 8-hours of images with a 4.7 GB DVD-RW/-R disc, depending on the recording mode.

Selectable Recording Mode

You can set your recorder to one of four different recording speeds, each varying in recording quality and length. EP (6Hr or 8Hr) mode yields the most recording time, LP & SP modes provide less recording time with higher quality recording, XP mode gives you the highest quality recording.

Automated Quality Adjustment for Timer Record List

If Auto mode is selected, the video quality is adjusted automatically so that all video for the scheduled time can be recorded onto the free disc space. (See page 74)

Creating a DVD video title using DVD-RW/-R disc

With the DVD RECORDER, you can create your own DVD Video titles on 4.7 GB DVD-RW/-R discs.

High quality progressive scan

Progressive scanning provides high resolution and flicker free video. The 10-bit 54-MHz DAC and 2D Y/C Separating Circuitry provides the highest image playback and recording quality. (See pages 36~37)

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

The integrated menu system and the messaging function allow you to perform desired operations both easily and conveniently. With a DVD-RW disc, you can edit recorded video, create a playlist, edit video in a specific sequence according to your requirements.

Before Reading the User's Manual

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

Icons that will be used in manual		
Icon	Term	Definition
DVD-VIDEO	DVD	This involves a function available in DVD or DVD-R/DVD-RW discs that have been recorded and finalised in Video Mode.
DVD-RW	RW	This involves a function available in DVD-RW.
DVD-R	R	This involves a function available in DVD-R.
(CD)	CD	This involves a function available in a data CD (CD-R or CD-RW).
JPEG	JPEG	This involves a function available in CD-R/-RW or DVD-RW UDF 2.0 discs.
MP3	MP3	This involves a function available in CD-R/-RW or DVD-RW UDF 2.0 discs.
!	Caution	This involves a case where a function does not operate or settings may be cancelled.
	NOTE	This involves tips or instructions on the page that help each function operate.
	One-Touch button	A function that can be operated by using only one button.
ANYKEY	ANYKEY button	A function that can be operated by using ANYKEY button.

About the use of this user's manual

- 1) Be sure to be familiar with Safety Instructions before using this product. (See pages 2~5)
- If a problem occurs, check the Troubleshooting. (See pages 96~99)

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How to use the DVD RECORDER

Step 1 Select the disc type

This unit can record on the following types of discs. If you want to repeatedly record on the same disc or you want to edit the disc after recording, select a rewritable DVD-RW 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-RW

This type of disc can be formatted in either DVD-Video format (V mode) or DVD-Video Recording format (VR mode). For an unused disc, a message that asks whether to format in VR Mode or not is displayed. You can play a Video mode disc on various DVD components. A VR mode disc allows more varied editing.

Using a DVD-R

This type of disc can be formatted in DVD Video format. After formatting is complete, you can record on the disc. You can play this type of discs on various DVD components only when they have been finalised.



- You can only use either the VR or Video mode on a DVD-RW, but not both at the same time.
- You can change the DVD-RW format to another format by reinitializing. 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.

Recording mode: XP (high quality mode), SP (standard quality mode), LP (long recording mode), and EP (extended mode) according to the recording mode. When recording is set in the Auto mode, the best quality picture is recorded with regards to the remaining time on the disc.



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 finalise recording on DVD-RW/-R discs in Video 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-RW in VR mode)

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



Step 6 Finalising & Playing on other DVD components

To play your DVD on other DVD components, finalising may be necessary. First, finish all editing and recording operations, then finalise the disc.

When using a DVD-RW disc in VR Mode

Although finalising is generally unnecessary when playing the disc on a VR Mode compatible component, a finalised disc should be used for playback on that type of component.

When using a DVD-RW disc in Video Mode

The disc should be finalised 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 finalised.

To enable recording on the disc again, disc should be unfinalised.

When using a DVD-R disc

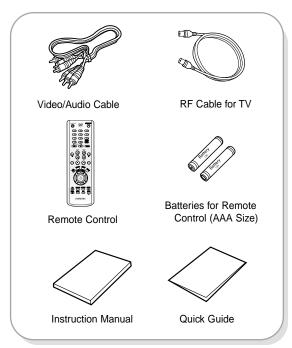
You should finalise the disc to play it on a component other than this recorder. You cannot edit or record on the disc once it has been finalised.

Unpacking



Accessories

Check for the supplied accessories below.



Preparing the Remote Control

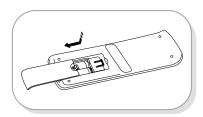
Install Batteries in the Remote Control

- 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 does not operate properly:

- Check the polarity + of the batteries (Dry-Cell)
- Check if the batteries are drained.
- Check if 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 certain functions of another manufacturer's TV with this remote control.

Control function buttons involve: STANDBY/ON,

PROG \(\subseteq \, TV \) VOL + -, Number buttons, TV MUTE,
INPUT button.



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

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

Controllable TV Codes

BRAND	BUTTON			
SAMSUNG				
AIWA	01, 02, 03, 04, 05, 06, 07, 08, 09			
ANAM	82 10 11 12 13 14 15 16 17 18			
BANG & OLUFSEN	10, 11, 12, 13, 14, 15, 16, 17, 18 57			
BLAUPUNKT	71			
BRANDT				
BRIONVEGA	73 57			
CGE	52			
CONTINENTAL EDISON	52 75			
DAEWOO	19, 20, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34			
EMERSON	19, 20, 23, 24, 25, 20, 27, 20, 29, 30, 31, 32, 33, 34			
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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.

Then you can control the television using the following buttons after the TV button.

Button	Function		
STANDBY/ON	Used to switch the television on and off.		
INPUT	Used to select an external source.		
TV VOL (+ -)	Used to adjust the volume of the television.		
PROG (∧∨)	Used to select the desired channel.		
TV MUTE	Used to toggle the sound on and off.		
Number	Used to input number directly.		

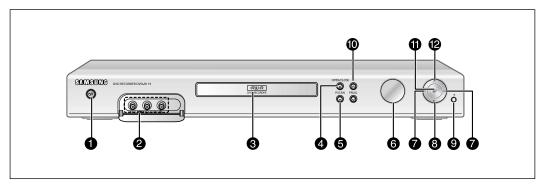


The various functions will not necessarily work on all televisions. If you encounter problems, operate the television directly.

Description



Front Panel



1. STANDBY/ON

Turns the recorder on and off.

2. AV3 INPUT

Connect external equipment.

3. DISC TRAY

Opens to accept a disc.

4. OPEN/CLOSE

Opens and closes the disc tray.

5. P.SCAN

Selects the progressive scan mode.

6. DISPLAY

Displays the playing status, title/ chapter/ time, etc.

7. SEARCH/SKIP

Goes to the next title/chapter/track or goes back to the previous title/chapter/track.

8. STOP

Stops disc playback.

9. Remote Control Reciever

10. PROG (^ ∨)

Select TV preset Channels.

Same as **PROG** button on the remote control.

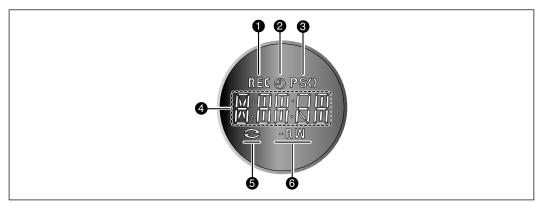
11. REC

Starts recording.

12. PLAY/PAUSE

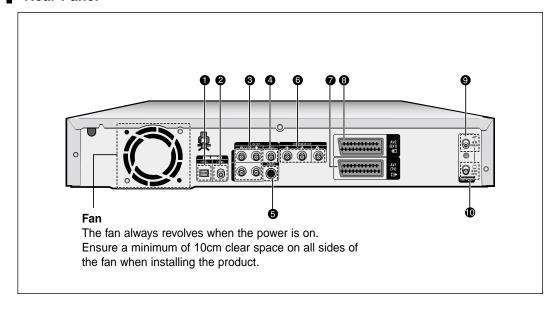
Plays a disc or pauses playback or recording.

Front Panel Display



- 1. Lights in the record mode.
- 2. Lights to indicate the timer record mode.
- 3. Lights in the progressive scan mode.
- 4. Playing time/clock/current status indicator.
- 5. Lights when a disc is loaded.
- 6. Lights when a -R/RW disc is loaded.

Rear Panel



1. DIGITAL AUDIO OUT(OPTICAL)

Connects to an amplifier having a digital optical audio input jack.

2. DIGITAL AUDIO OUT(COAXIAL)

Connects to an amplifier having a digital coaxial audio input jack.

3. AUDIO OUT

Connects to the audio input of external equipment using audio cables.

4. VIDEO OUT

Connects the input of external equipment using a Video cable.

5. S-VIDEO OUT

Connects the input of external equipment using an S-Video cable.

6. COMPONENT VIDEO OUT

Connects to equipment having Component video output.

7. AV1(TV) OUTPUT SCART Connector

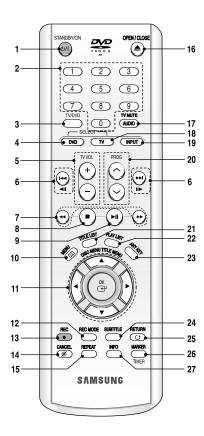
- 8. AV2(EXT) INPUT SCART Connector
- 9. * In from aerial connector
- 10.

 Out to TV connector



 The Antenna connection does not pass output signal of DVD. To watch a DVD on your TV, you must connect audio/video or Scart cables.

Tour of the Remote Control



1. STANDBY/ON Button

2. Number Buttons

3. TV/DVD Button

4. DVD Button

Press this when you use a DVD Recorder.

5. TV VOL Buttons

TV volume adjustment.

6. Reverse/Forward Skip Buttons

Press to skip a disc backwards or forwards. These buttons also function as **STEP** buttons. Each press will play one-frame forward or reverse (see page 43).

7. Reverse/Forward Search Buttons

Press to search a disc backwards or forwards.

8. Stop Button

Press to stop a disc.

9. Play/Pause Button

Press to play/pause a disc.

10. MENU Button

Brings up the DVD recorder's setup menu.

11. OK/DIRECTION Buttons

(▲▼◀ ► Buttons)

12. REC MODE Button

This will display the recording status.(XP/SP/LP/EP)

13. REC Button

Use to make a recording on DVD-RW/-R discs.

14. CANCEL Button

15. REPEAT Button

Allows you to repeat a title, chapter, track or disc.

16. OPEN/CLOSE Button

To open and close the disc tray.

17. AUDIO/TV MUTE Button

Use this to access various audio functions on a disc. (DVD mode) This operates as Sound Mute. (TV mode)

18. TV Button

Press this to operate TV.

19. INPUT Button

Select line input signal in external input mode (PROG or AV input)

20. PROG Button

Select preset channels in a specific order. Same as **PROG** buttons in front panel.

21. TITLE LIST/DISC MENU Button

Use this to enter the View Recording list/Disc menu.

22. PLAY LIST/TITLE MENU Button

Use this to return to the Title menu, or to view the recorded files list.

23. ANYKEY Button

Use this to view the status of the disc that is being played.

24. SUBTITLE Button

Press this to switch the DVD's subtitle language.

25. RETURN Button

Returns to a previous menu.

26. MARKER/TIMER Button

Use this to bookmark a position while playing a disc. Press to directly enter the Timer Recording Mode menu while stopping a disc.

27. INFO Button

This will display current settings or disc status.

Connecting & Setting Up

This section involves various methods of connecting the DVD RECORDER to other external components and required initial setting modes.

Quick Overview

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

Connecting the DVD RECORDER



Additional Connections



Other type of connecting the Video output cable



Other type of connecting the Audio output cable



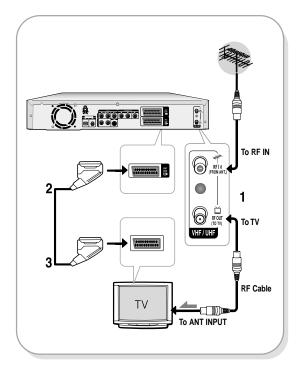
Connecting to AV 3 IN jack

Connecting the DVD RECORDER

Additional Connections

You can connect your DVD RECORDER to the television using the SCART cable if the appropriate input is available on the television.

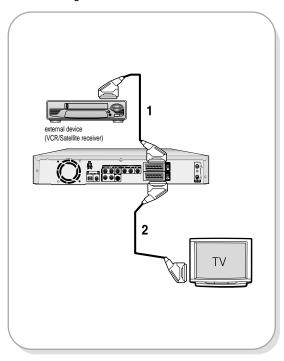
- 1. Connect the RF cable as shown.
- Connect one end of the SCART cable to the AV1 socket on the rear of the DVD RECORDER.
- 3. Plug the other end into the appropriate connector on the television.
- 4. Plug in the DVD RECORDER and TV.
- 5. Turn on the DVD RECORDER and TV.
- Press the INPUT button on your TV remote control until the Video signal from the DVD RECORDER appears on the TV screen.





- The RF cable connection of this product sends only signals of TV. You must connect SCART cable or Audio/Video cables to watch a DVD from your DVD RECORDER.
- TV mode Press the TV/DVD button on remote control, then "TV" appear on Front LED display (or turn off DVD RECORDER).
 Then you can watch programmes received through RF cable.

You can connect your DVD RECORDER to a satellite or digital tuner.



- DVD mode
- Connect the AV2 connector of DVD RECORDER and VCR/Satellite receiver or digital tuner using a SCART cable.
- Connect the AV1 connector to the SCART AV connector on TV.
- Turn on the DVD RECORDER, VCR/Satellite receiver or digital tuner and TV.
- 4. Set Input mode on AV2.
- TV mode
- Press the TV/DVD button on remote control, then "TV" appear on Front LED display. (or turn off DVD RECORDER.)
- You can watch programmes from a satellite or digital tuner connected to this DVD RECORDER, even when the DVD RECORDER is turned off.

Other type of connecting the Video output cable

There are several ways to output video signal not using scart cables. Select one of the following video connecting that best suits you below.

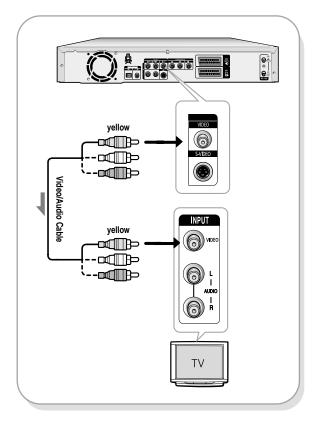
- Case 1 : Connecting to a Video (Composite) output jack
- Case 2 : Connecting to an S-Video output jack
- Case 3 : Component Video output jacks

S-Video, Component video and Progressive Output Modes

- 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.
- Compared to standard interlaced video, progressive scan doubles the amount of video lines fed to your TV, resulting in a more stable, flicker-free, clear image than interlaced video. This is only available with TVs that support progressive scan.
- Progressive Scan Output (576p)
 Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture, in case of 576 progressive scan picture problems, It is recommended that the user switch the connection to the 'standard definition' output. If there are questions regarding our TV set compatibility with this model 576p DVD RECORDER, please contact our customer service centre.

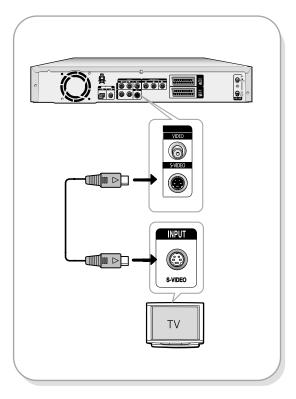
Case 1 : Connecting to a Video (Composite) output jack

- Connect a video(yellow) cable between the VIDEO (yellow) OUT jack on DVD RECORDER and VIDEO (yellow) INPUT jack on your TV (or AV amplifier).
 - · You will enjoy regular quality images.
- Connect audio cables (white and red) between the AUDIO OUT jacks on the DVD RECORDER and AUDIO IN jacks on TV (or AV amplifier). (See pages 20~21)



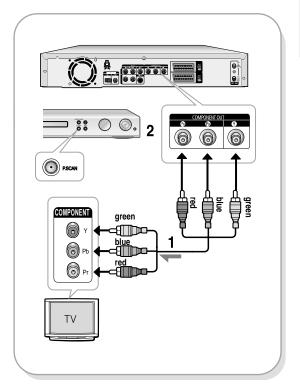
Case 2 : Connecting to an S-Video output jack

- Connect an S-Video cable (not included) between the S-VIDEO OUT jack on DVD RECORDER and S-VIDEO INPUT jack on your TV (or AV amplifier).
 You will enjoy high quality images.
- Connect audio cables (white and red) between the AUDIO OUT jacks on DVD RECORDER and AUDIO IN jacks on TV (or AV amplifier).



Case 3 : Component Video output jacks

- Connect Component video cables(not supplied) between the COMPONENT OUT(Y,PB,PR) jacks on DVD RECORDER and COMPONENT IN(Y,PB,PR) jacks on your TV.
 - You will enjoy high quality and accurate colour reproduction images.
- Connect audio cables (white and red) between the AUDIO OUT jacks on the DVD RECORDER and AUDIO IN jacks on TV (or AV amplifier). (See pages 20~21).
- 3. After connecting, refer to the pages 34~36.





- Make sure that the colour coded connections match. The Y, P_B, P_R component output jacks of your DVD RECORDER must be connected to the exact corresponding component input jacks on your TV.
- Progressive setting is only available when the Video Out is set to Component. (See pages 36~37)

Other type of connecting the Audio output cable

There are several ways to output audio signal not using scart cables. Select the audio connection that best suits you below.

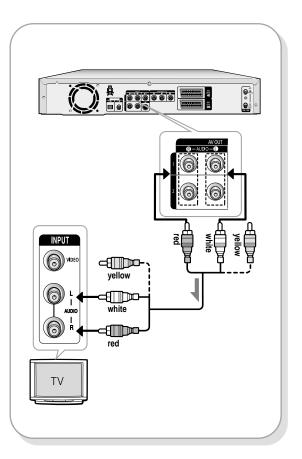
- Case 1 : Connecting to your TV
- Case 2 : Connecting to a stereo amplifier with AV output jacks
- Case 3 : Connecting to an AV amplifier with a digital output jack

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.

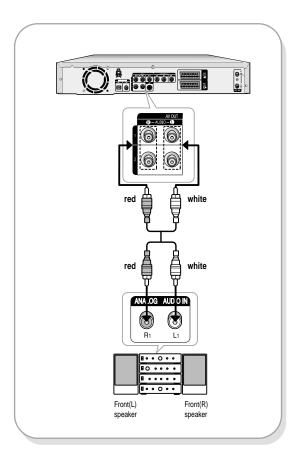
Case 1 : Connecting to your TV

If your TV has audio input jacks, use this connection.



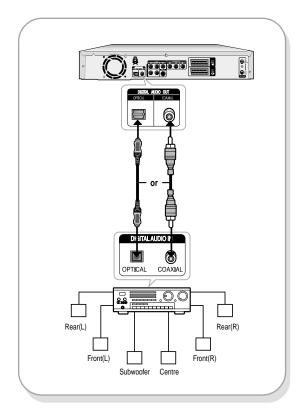
Case 2 : Connecting to a stereo amplifier with AV output jacks

If your stereo amplifier only has AUDIO INPUT jacks(L and R), use the AUDIO OUT jacks.



Case 3: Connecting to an AV amplifier with a digital output jack

If your AV amplifier has a Dolby Digital, MPEG2 or DTS decoder and a digital input jack, use this connection. To enjoy Dolby Digital, MPEG2 or DTS sound, you will need to set up the audio settings. (See page 33~34)



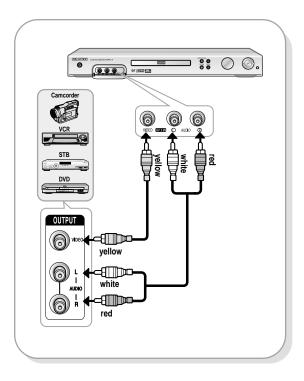
Connecting to AV 3 IN jack

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

Connecting a VCR, Set-Top Box(STB), DVD player or Camcorder to the AV3 IN jacks

Connecting a VCR or external device to AV3 IN jacks of the DVD RECORDER.

You can record from connected equipment (VCR, STB, DVD player or Camcorder).





- AV 3 in selection will be automatically done. If the input is not selected automatically, use **INPUT** button to select proper input.
- Copy protected content cannot be recorded.

22 - English

System Setup

Presetting Channels with the Presetting Channels with the Setting up the Language Options29 Setting up NICAM Options32 Setting up the Video Display Options34

On-Screen Menu Navigation

The on-screen menus allow you to enable or disable various functions on your DVD RECORDER. 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.

2 A▼, ◀▶ Buttons

Press these buttons on remote control to move the selection bar ▲▼, ◀▶ to cycle through the menu options.

OK 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.

Plug & Auto Setup

Your DVD RECORDER will automatically set itself up when it is plugged in for the first time. TV stations and clock will be stored in memory. The process takes a few minutes. Your DVD RECORDER will then be ready for use.

- Connect the RF cable as indicated on page 17. (Connecting Your DVD RECORDER to the TV Using the RF Cable and scart cable.)
- Plug the DVD RECORDER into the mains. "Auto" in the front panel display flickers.



2 Start the auto setup.



Press **OK** button. Auto Channel scan will be started.



 The number of stations automatically stored by the DVD RECORDER depends on the number of stations that it has found. After Auto Channel Scan is completed, Auto Clock Setting will be started automatically in 10 seconds. If you want to start Auto Clock Setting immediately, press **OK** button. If you do not want to do Auto Clock Setting, press **CANCEL** or **MENU** button.



Wait until current date and time are displayed automatically. If you want to exit Auto Clock Setting, press MENU button.



Check the date and time.



- if it is: Correct, press OK button then the date and time will be saved. If you don't press the OK button, the date and time will be saved automatically after 5 seconds.
- if it is: Incorrect, input correct Time, Date, Year
 using ▲▼◀► buttons or number buttons.
 Press OK button then the date and time
 will be saved. When you need to change
 clock setting, you can set up it manually.
 (see page 25)



- Now, DVD RECORDER is ready for use. Function for "Plug & Auto Setup" is fixed already. So if you want to change this fixed one, you can change it by Presetting the Stations in OSD "Presetting Channels with the Manual set up function" menu. (see page 27)
- Auto Set up function can be performed by pressing STOP (⊙) on the unit continuously for 5 seconds or more during power off with no disc inserted.

Setting the Clock

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

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



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



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

Press the ▲▼◀ ► buttons to input Time, Date or Year. Press the Number buttons to input clock data directly.

The day of the week is displayed automatically.



Press the ▲▼ buttons to select On for the Auto Clock.



Press the **OK** button, then the date and time will be saved.

If you don't press the **OK** button, it will not be saved.



- You must have the RF cable connected to set the Auto Clock. (See page 17)
- The DVD RECORDER automatically sets the clock according to the time signal broadcast between the channels PR1 to PR5. If you do not need the Auto clock set function, select Off.

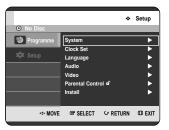
Presetting Channels with the Auto Setup Function

This feature allows you to manually set the DVD RECORDER tuner band to Antenna or Cable, whichever you connected to the Antenna In jack during initial setup.

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



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



Press the ▲▼ buttons to select **Install**, then press the **OK** or ▶ button.



Press the ▲▼ buttons to select Auto Setup, then press the OK or ▶ button.

The message "Your data will be lost. Press [OK] to continue, [MENU] to exit." is displayed.



Press the **OK** button.
If you want to exit, press the **MENU** button.

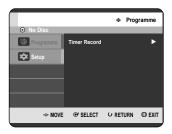


6 Channel scan will be started.
Press the **OK** button to stop the Auto Setup.

Presetting Channels with the Manual Setup Function

You can add preset channel that Auto Channel Search missed. And you can delete a channel you wish to remove. You can programme the order of channels.

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



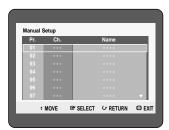
Press the ▲▼ buttons to select **Setup**, then press the **OK** or ▶ button.



Press the ▲▼ buttons to select Install, then press the OK or ▶ button.

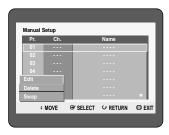


Press the ▲▼ buttons to select Manual Setup, then press the OK or ▶ button.



Press the ▲▼ buttons to select a Pr.(programme) you wish to edit, delete, or swap, then press the OK or ▶ button.

Select Edit, Delete or Swap.



• In case of Edit: You can add or edit Pr.(programme) information. After change Pr. informations (Ch., Name, MFT), select Save, then press the OK button.



- Ch.: Tune the channel using ◀ ▶ buttons.
- Name : Display station name automatically detected in broadcasting signal. If not detected, you can edit name by using ▲▼◀ ▶ buttons.
- MFT(Manual Frequency Tunning) : You can tune up the channel frequency better using ◀ ▶ buttons.
- In case of Delete: The channel information of selected Pr.(programme) will be removed.
- In case of Swap: You can swap the channel information of two Pr.(programme). For example, if you wish to swap PR2 and PR5, select swap at PR2, then press the OK or ▶ button at PR5.

Setting up the Language Options

If you set the audio, subtitle, disc menu and on-screen menu 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 OK or ▶ button.



Press the ▲▼ buttons to select Language, then press the OK or ▶ button.

Language setup menu will be displayed.



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



- 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.
- **5** Press the ▲▼ buttons to select the desired language, then press the **OK** button.



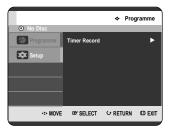
- Press the RETURN or ◀ button to return to the previous menu. Press the MENU button to exit the menu.
- The selected language will only appear if it is supported on the disc.

EP Mode Time Setting

You can select one of four recording modes by pressing the **REC MODE** button repeatedly.

EP mode is one of four REC Mode (XP, SP, LP, EP). In EP(Extended Play) mode, you can set recording time to 6 or 8 hours by this setting.

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



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



Press the ▲▼ buttons to select System, then press the OK or ► button. System menu will be displayed.



Press the ▲▼ buttons to select EP Mode Time, then press the OK or ▶ button.



Press the ▲▼ buttons to select the desired time, then press the **OK** button.

Auto Chapter





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



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



Press the ▲▼ buttons to select System, then press the OK or ▶ button.
System menu will be displayed.



Press the ▲▼ buttons to select Auto Chapter, then press the OK or ▶ button.



- Press the ▲▼ buttons to select the desired item, then press the **OK** button.
 - Off: Select this option when you do not want Auto chapter.
 - 5 Min: Inserts chapter marks at approximately 5 minute intervals.
 - 10 Min: Inserts chapter marks at approximately 10 minute intervals.
 - 15 Min: Inserts chapter marks at approximately
 15 minute intervals.

Press the MENU button to exit the menu.

- 6 Press the REC button to start recording.
- **7** Press the **STOP** button to stop recording.
- To display the created Chapters, finalise the disc. (See page 94)
 Chapters will be created.



 Actual intervals may differ depending on the size of the recording. The selected setting should be regarded as an approximate chapter interval.

Setting up the Front Display Options

Adjust the brightness of the unit's front panel display.

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



Press the ▲▼ buttons to select **Setup**, then press the **OK** or **>** button.



Press the ▲▼ buttons to select System, then press the OK or ► button. System menu will be displayed.



Press the ▲▼ buttons to select Front Display, then press the OK or ▶ button.



- Press the ▲▼ buttons to select the desired item, then press the **OK** button.
 - Bright: Makes the Front Panel Display bright.
 - Dim: Makes the Front Panel Display dim.
 - Auto Dim: Makes the Front Panel Display dim automatically when DVD RECORDER is power off.

Setting up NICAM Options

NICAM programmes are divided into 3 types. NICAM Stereo, NICAM Mono and Bilingual (transmission in another language). NICAM programmes are always accompanied by a standard mono sound broadcast. So you can select the desired sound by setting NICAM on or off.

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



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



Press the ▲▼ buttons to select **System**, then press the **OK** or ▶ button. System menu will be displayed.



Press the ▲▼ buttons to select **NICAM**, then press the **OK** or ▶ button.



- Press the ▲▼ buttons to select Off or On, then press the OK button.
 - Off: Only set at this position to record the standard mono sound during a NICAM broadcast if the stereo sound is distorted due to inferior reception conditions.
 - On: NICAM mode

Setting up the Audio Options

You can connect the DVD RECORDER to an external amp or Home Theatre.

Allow you to setup the Audio device and sound status depending on the audio system in use.

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

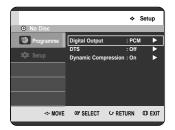


Press the ▲▼ buttons to select **Setup**, then press the **OK** or ▶ button.



Press the ▲▼ buttons to select Audio, then press the OK or ▶ button.

Audio setup menu will be displayed.



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



Press the ▲▼ buttons to select the desired item, then press the **OK** button.



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

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

Digital Output

- PCM: Select this when you have no equipment that can decode Dolby Digital (or MPEG-2) signal. When you play Dolby Digital (or MPEG-2) sound track, the digital output are converted to PCM Stereo.
- Bitstream: Output Dolby Digital (or MPEG-2) audio as bitstream. Select this when your AV receiver or AV amplifier have Dolby Digital (or MPEG-2) Decoder.



- Digital output setting is equally applied to both Dolby Digital and MPEG-2 audio.
 LPCM sound track is always outputted as PCM. It has no relation with Digital Output setting.
- Be sure to select the correct Digital Output or you will hear no sound or loud noise.

DTS

- Off: Doesn't output DTS signal. Select this when your AV receiver or AV amplifier does not have DTS decoder.
- On: Outputs DTS Bitstream via digital output when you play DTS track. Select this only when your AV receiver (or AV amplifier) have DTS decoder.



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

Dynamic Compression

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

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

Setting up the Video Display Options

This function allows you to setup the TV screen settings.

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



Press the ▲▼ buttons to select **Setup**, then press the **OK** or **>** button.



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

Video setup menu will be displayed.



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



Press the ▲▼ buttons to select the desired item, then press the **OK** button.



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 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 widescreen TV.

Noise Reduction



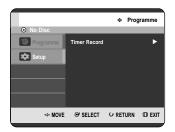
• Off : Normal

 On: Provides a clear picture through noise reduction (for recording).

Setting up Video Output Options

You can enjoy high quality image through RGB or Component video connections. RGB video output is available connecting scart jack(AV1) and component video output is available connecting component(Y,P $_{\text{B}}$,P $_{\text{R}}$) jack. Only one of these signals can be selected at one time.

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



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



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

Video setup menu will be displayed.



Press the ▲▼ buttons to select Video Output, then press the OK or ▶ button.



Press the ▲▼ buttons to select the desired item, then press the OK button.

In Component mode, you can set video output to Progressive(P.SCAN) or Interlace, see page 36~37. Available video output jacks are as follow.

Available Video Output Jack

	Setting mode	Component mode		RGB Mode
Output jack	,	P.SCAN off mode (Interlace mode)	P.SCAN on mode	IVOD IVIOUE
Component Output (Y, Pb, Pr)		0	O (TV in progressive mode)	Χ
AV1 Scart	R, G, B	χ	Х	0
	Composite	0	0	0
AV2 Scart	Composite	0	0	0
Composite	Video out	0	0	0
S-Video out		0	Χ	0

Setting up the Progressive scan

If the TV supports Progressive Scan, press the **P.SCAN** button on the front of the DVD RECORDER to enjoy. If you select "Progressive scan mode", the component cable has to be connected at first. (see page 19)

With the unit in Stop mode, press the **P.SCAN** button on the front of the DVD RECORDER.

The message "Press [Yes] to confirm Progressive scan mode. Otherwise, press [No]." will appear.

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



The message "Please, set your TV to Progressive input. To deactivate, press [STOP] key." will appear. Press the **OK** button.



The message "Video Output Mode. Progressive Scan" will appear.





- If the P.SCAN button on the DVD RECORDER's front panel is pressed during playback, the message "This function is possible only on stop mode" appears on the screen.
- Progressive setting is only available when the DVD RECORDER is in stop mode.

Canceling the **Progressive scan**

With the unit in Stop mode, press the **P.SCAN** button on the front of the DVD RECORDER.

The message "Press [Yes] to confirm Interlace scan mode. Otherwise, press [No]." will appear. Press the ◀ ▶ buttons to select **Yes**, and then press the **OK** button.



The message "Please, set your TV to Interlace input. To deactivate, press [STOP] key." will appear. Press the **OK** button.



The message "Video Output Mode Interlace Scan" will appear.





- Do not press the P.SCAN button if you are using a TV that does not support Progressive mode. Nothing will be displayed on the screen if pressed.
- If you press the **P.SCAN** button by mistake when your TV does not support Progressive mode, you need to release the Progressive mode. To release the Progressive mode, press the **P.SCAN** button on the front panel 3 times. The screen will recover after the PS indicator on the front panel display turns off.

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.



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



Press the ▲▼ buttons to select Parental Control, then press the OK or ▶ button.

The "Create the password" message will be



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

The "Confirm the password" message will be displayed.



5 Enter your password again.
Press the OK or ▶ button to select Password.



Press the ▲▼ buttons to select Off or On, then press the OK button.



■ Press the RETURN or ■ button to return to the previous menu.

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

If you forgot your password

Remove the disc.

Press and hold **>>| SEARCH/SKIP** button on the front panel for 5 seconds or more.

displayed.

About the Rating Level

Press the ▲▼ buttons to select Rating Level, then press the OK or ▶ button.





Press the ▲▼ buttons to select the rating level you want, then press the OK 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 programme is intended for adult use only.

About the Change Password

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





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

The "Confirm the password" message will be displayed.



3 Enter your password again using the Number buttons on the remote control.



See page 38 if you forgot your password.

Playback

This section introduces basic functions of playback and playback by disc type.







Dolby Digital

S Digital Audio







Stereo

PAL broadcast system in U.K, France, Germany, etc. MP3

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Before Playing

Read the following information before playing a disc.

Region code (DVD-Video only)



Both the DVD RECORDER 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 is described on the rear panel of the DVD RECORDER.

Disc types that can be played

Shape Max. Playing Time
ded(12cm) 240
ded(12cm) 480
ded(8cm) 80
ided(8cm) 160
ded(12cm) 74
ded(8cm) 20
1 (XP: Excellent Quality)
(4.7GB) 2 (SP: Standard Quality)
4 (LP: Long Playback)
6 or 8 (EP:Extended)
1 (XP: Excellent Quality)
(4.7GB) 2 (SP: Standard Quality)
4 (LP: Long Playback)
6 or 8 (EP:Extended)

Discs that cannot be played

- DVD-Video with a region number other than "2" or "ALL"
- · 3.9 GB DVD-R Disc for Authoring.
- DVD-RW(VR mode) not recorded following the Video Recording Standard
- Unfinalised DVD-R,unfinalised DVD-RW(V mode) recorded on other equipment.
- DVD-ROM/DVD+RW/PD/MV-Disc/DivX Video, etc
- CVD/CD-ROM/CDV/CD-G/CD-I



- 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 discs is written in detail on the box. Please refer to this if necessary.
 - Do not allow the disc to become dirty or scratched, finger prints, dirt, dust, scratches or deposits of cigarette smoke on the recording surface may make it impossible to use the disc for recording.
 - DVD-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 NTSC programmes recorded on them cannot be recorded using this product.

Playing a Disc



- Press the OPEN/CLOSE button.
- Place a disc gently into the tray with the disc's label facing up.
- Press **OPEN/CLOSE** button to close the disc tray. Your DVD RECORDER closes the disc tray and plays the disc automatically.
 - The recorder does not play discs automatically after the initial power on.
 - When the recorder is powered on and a disc is in the tray, the unit will be activated and wait in stop
 - Press the PLAY(•) button to start playback.
 - If you insert an MP3 Disc, your DVD RECORDER will display the file list on the screen and start playing.
 - If you insert a JPEG Disc, folders and files are displayed in the thumbnail picture.
 - · If you want the unit to play automatically when it is powered on with a disc in the unit, power on with the **PLAY(**) button.



Press the **STOP(** •) button to stop playback.



When you stop playing back a disc, the DVD RECORDER remembers where you stopped, so when you press **PLAY(**•••) button again, it will pick up where you left off. (Unless the disc is removed or the DVD RECORDER is unplugged, or if you press the **STOP((*))** button twice.)



- Do not move your DVD RECORDER while playing, as this may cause damage to the
- 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.
- You must only insert one DVD disc at a time. Inserting two or more discs will not allow playback and may cause damage to the DVD RECORDER.

Using the Disc Menu & Title Menu

Some type of discs contain a dedicated menu system that allows you to select special functions for title, chapter, audio track, subtitle, film preview, 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.
- Press the TITLE MENU button to move to the title menu of the disc.
 - Press this button if the disc contains more than one title. Some discs may not support the title menu function

For DVD-RW/-R Disc





Press the TITLE LIST button to display title list.



- Title List: Title List shows a list to help you select a title. Since the title list consists of the information on video stream that is actually recorded, if one title is deleted, that title cannot be played again.
- Play List: This refers to a unit of playback, which is made by selecting a desired scene in the entire Title List. When one playlist is played, only the scene selected by the user will play and then stop. Since only the information necessary for playing a desired scene is included in a playlist, even if that playlist is deleted, the original recording will not be deleted. (only VR mode)

Using the Search & Skip Functions

Searching through a Chapter or Track









During play, press the **SEARCH** ($\bigcirc \bigcirc$) buttons on the remote control.

Each time you press the SEARCH button, the playback speed will change as follows.

DVD-VIDEO/ DVD-RW/-R	►► Fast X 2 → ►► Fast X 4 → ►► Fast X 8 → ►► Fast X 16 → ►► Fast X 32 → ►► Fast X 128
AUDIO CD (CD-DA)	▶► X 2 → ▶► X 4 → ▶► X 8

- You can scan the programme in reverse.
 To return to normal speed playback, press the
 PLAY ((•)) button.
- When you press and hold the SEARCH (•) buttons, playback is done at the default speed of X4.

If you release the **SEARCH** () buttons, playback is performed at a normal speed.

 The speed marked in this function may be different from the actual playback speed.



 No sound is heard during Scan(Search) mode, except CDs (CD-DA).

Skipping Chapters, a Tracks or Markers

During play, you can search quickly through a chapter or track.

During play, press the **SKIP** () buttons on the remote control.

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

Slow Motion Play/ Step Motion Play

Slow Motion Play







In pause or step mode, press the **SEARCH** (\odot) buttons on the remote control.

- If you press the SEARCH () button,
 - I► Slow $1/8 \rightarrow$ I► Slow $1/4 \rightarrow$ I► Slow 1/2
- If you press the SEARCH () button,
 - **◄** Slow 1/8 → **◄** Slow 1/4 → **◄** Slow 1/2
- To return to normal speed playback, press the PLAY () button.

Press and hold the **SEARCH** () buttons during pause, the disc will play slowly at a 1/4 speed. If the button is released, the pause operation will resume.



The speed marked in this function may be different from the actual playback speed.

Step Motion Play







Press the **STEP(** $\begin{picture}(0,0)\line(0$

- Each time the button is pressed, a new frame will appear.
 - When the **STEP(** $\begin{tabular}{l} \end{tabular}$) button is pressed, the previous frame will be activated.
 - When the **STEP(** \bigcirc **)** button is pressed, the next frame will be activated.
- To return to normal speed playback, press the PLAY ((-1)) button.

About ANYKEY

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

Moving to a scene directly using the **ANYKEY**

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







Press the ANYKEY button during playback.



Press the ▲▼ buttons to select **Search**, then press the **OK** or ▶ button.



Press the ▲▼ buttons to select **Title**, **Chapter** or Time.

- Press the ◀▶ buttons or Number buttons to select the desired scene, then press the OK button.
- If you want to move to a desired time following will help you find a scene.
- Press the ANYKEY button during playback.



Press the ▲▼ buttons to select **Search**, then press the **OK** or **▶** button.



- Press the ▲▼ buttons to select Time.
- Enter the time in the sequence of hours, minutes, and seconds using the Number buttons, then press the OK button.



NOTE

- This may not work for some discs. When an audio CD(CD-DA) or an MP3 disc is inserted, according to a 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

Playing the Title List

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







Using the TITLE LIST button

With the unit in Stop mode/Playback mode, press the TITLE LIST button.

The Title List screen is displayed.



Using the MENU button.

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



Press the ▲▼ buttons to select Disc
 Navigation, then press the OK or ► button twice.

Press the ▲▼ buttons to select an entry you want to play from Title List, then press the OK or PLAY (②) button.

The selected entry (title) will be played back.

- About INFO button -

To view the current status of the disc and progress of playback: Press the **INFO** button, the information about the disc will appear.



Press the **INFO** button once again. Then you can check the information about the title under playback.



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

Navigation Menu

Scene Navigation

If there is a title composed of markers (See page 49), you can search the desired scene using the Scene Navigation.



(VR mode)



Using the TITLE LIST button

With the unit in Stop mode/Playback mode, press the TITLE LIST button.

The Title List screen is displayed.



Using the MENU button.

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



Press the ▲▼ buttons to select Disc
 Navigation, then press the OK or ► button twice.

Press the ▲▼ buttons to select an entry you want to play from Title List, then press the ANYKEY button.



Press the ▲▼ buttons to select Navigation, then press the OK or ▶ button.



Press the ▲▼ buttons to select Scene
Navigation, then press the OK or ▶ button.



Press the ▲▼ ◀▶ buttons to select desired scene, then press the OK or PLAY (③) button.



Using the ANYKEY button

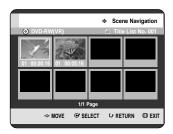
Press the **ANYKEY** button during playback.



Press the ▲▼ buttons to select Navigation, then press the OK or ▶ button.



Press the ▲▼ buttons to select Scene
Navigation, then press the OK or ▶ button.



Press the ▲▼ ◀▶ buttons to select desired scene, then press the **OK** or **PLAY** (♥) button.



 Scene Navigation will not operate if a selected title does not have Markers.

Time Navigation

Using this function, you can search scene minute-byminute from the recorded title list.



(VR mode)



Using the TITLE LIST button

With the unit in Stop mode/Playback mode, press the TITLE LIST button.

The Title List screen is displayed.



Using the MENU button.

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



Press the ▲▼ buttons to select Disc
 Navigation, then press the OK or ► button twice.

Press the ▲▼ buttons to select an entry you want to play from Title List, then press the ANYKEY button.



Press the ▲▼ buttons to select Navigation, then press the OK or ▶ button.



Press the ▲▼ buttons to select Time

Navigation, then press the OK or ▶ button.



Press the **◄** buttons to skip one minute at a time and search the desired scene, then press the **OK** or **PLAY** (ⓐ) button.



Using the ANYKEY button

Press the **ANYKEY** button during playback.



Press the **A**▼ buttons to select **Navigation**, then press the **OK** or **>** button.



Press the ▲▼ buttons to select **Time**Navigation, then press the OK or ▶ button.



Press the ◀▶ buttons to skip one minute at a time and search the desired scene, then press the OK or PLAY (ⓐ) button.



- Cursor does not move if selected recorded title is shorter than 1 minute.
- A disc that has not been recorded by this device may not operates Navigation function.
- An edited title may not display exact search time.

Using the Markers



(VR mode)



Using the MARKER button

Press the **MARKER** button during playback.



Using the ANYKEY button.

• Press the ANYKEY button during playback.



 Press the ▲▼ buttons to select Marker, then press the OK or ▶ button. Press the OK button when the desired scene appears.
 The number 01 is displayed and the scene is memorized.



- Press the ◀► buttons to move to the next position.
- Press the **OK** button again when the desired scene appears.
 - The number **02** is displayed and the scene is memorized.



 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 Protection, Markers cannot be set or deleted. Only playback is available.



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

Playing back a marker



Using the MARKER button

Press the **MARKER** button during playback.



Using the ANYKEY button.

• Press the ANYKEY button during playback.



 Press the ▲▼ buttons to select Marker, then press the OK or ▶ button.

↑ Press the **♦** buttons to select a marked scene.



- Press the **OK** or **PLAY** () button to start playing from the selected scene.

 - If you press the **SKIP** () button, it moves to the next marker.

Clearing a marker



Using the MARKER button

Press the **MARKER** button during playback.



Using the ANYKEY button.

• Press the ANYKEY button during playback.



 Press the ▲▼ buttons to select Marker, then press the OK or ▶ button.

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





■ When a marker is cleared while 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.

Using the Bookmarks







(V-mode)



Using the MARKER button

Press the **MARKER** button during playback.



Using the ANYKEY button.

• Press the ANYKEY button during playback.



 Press the ▲▼ buttons to select Bookmark, then press the OK or ► button.

- Press the **OK** button when the desired scene appears.
 - The number 1 is displayed and the scene is memorized.



- Press the **OK** button again when the desired scene appears.

 The number 2 is displayed and the scene is

The number 2 is displayed and the scene is memorized.



- Repeat above to bookmark other positions.
- You can bookmark up to 10 scenes.



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

Playing back a bookmark



Using the MARKER button

Press the **MARKER** button during playback.



Using the ANYKEY button.

• Press the ANYKEY button during playback.



- Press the ▲▼ buttons to select Bookmark, then press the OK or ▶ button.
- Press the **◄►** buttons to select a bookmarked scene.
- Press the **OK** or **PLAY(**(•••)) button to start playing from the selected scene.

Clearing a bookmark



Using the MARKER button

Press the **MARKER** button during playback.



Using the ANYKEY button.

• Press the ANYKEY button during playback.



- Press the ▲▼ buttons to select Bookmark, then press the OK or ► button.
- Press the ◀► buttons to select a bookmarked scene.



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

Selecting the Subtitle Language

Selects one of the subtitle language recorded on the disc.





(VR mode)



Using the SUBTITLE button

Press the **SUBTITLE** button during playback.



- Press the ▲▼ buttons to select the desired subtitle language. Also, press the SUBTITLE button repeatedly to select the desired subtitle language.
 - To make the screen disappear, press the **CANCEL** or **RETURN** button.



Using the ANYKEY button

Press the **ANYKEY** button during playback.



Press the ▲▼ buttons to select **Subtitle**, then press the **OK** or ▶ button.



Press the ▲▼ buttons to select the desired subtitle language, then press the **OK** or ▶ button.



- The subtitle display may be different depending on the disc type.
- Some discs allow you to select the language for the disc menu only.

Selecting the Audio

Selects one of the soundtracks recorded on the disc. Also selects the audio channels.





(VR mode)



Using the AUDIO button

Press the **AUDIO** button during playback.



- Press the ▲▼ buttons to select the desired soundtracks or audio channel. Also, press the AUDIO button repeatedly to select the desired soundtracks or audio channel.
 - To make the screen disappear, then press the CANCEL or RETURN button.



Using the ANYKEY button

Press the **ANYKEY** button during playback.



Press the **A▼** buttons to select **Audio**, then press the **OK** or **▶** button.



Press the ▲▼ buttons to select the desired audio language, then press the **OK** or ▶ button.



- Audio languages may be different because they are disc-specific.
- Some discs allow you to select the audio language for the disc menu only.

Changing the Camera Angle

When a DVD-VIDEO contains multiple angles of a particular scene, you can select the Angle function.





Using the ANYKEY button

Press the **ANYKEY** button during playback.



Press the ▲▼ buttons to select Angle, then press the OK or ▶ button.



Press the ▲▼ buttons to select the desired angle, then press the OK or ▶ button.



- 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 multicamera angle system.

Repeat Play

Playing Repeatedly(Repeat Playback)









Using the REPEAT button

Press the **REPEAT** button during playback.



Press the ▲▼ buttons to select the Off, Title or Chapter you want to play repeatedly, then press the OK button.





Using the ANYKEY button

Press the **ANYKEY** button during playback.



Press the ▲▼ buttons to select the Repeat, then press the OK or ▶ button.



- Press the ▲▼ buttons to select Repeat Off,
 Repeat A-B, Repeat Title, Repeat Chapter you
 want to play repeatedly, then press the OK or ▶
 button.
- To return to normal playback -
- Press the **CANCEL** button to return to normal playback.



 DVD-RW(VR mode), unfinalised DVD-R and unfinalised DVD-RW (V mode) do not repeat a chapter.

Repeat A-B







Press the **ANYKEY** button during playback.



Press the ▲▼ buttons to select Repeat, then press the OK or ▶ button.



- Press the ▲▼ buttons to select Repeat A-B, then press the OK or ▶ button.
- Press the **OK** button at the point where you want the 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.
- Audio CDs(CD-DA), MP3 discs do not support the Repeat A-B function.

Zooming-In









Press the **ANYKEY** button during playback.



Press the ▲▼ buttons to select **Zoom**, then press the **OK** or ▶ button. (﴿﴿﴿) will be displayed.



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

Press the **OK** button.

The screen will be enlarged to twice the normal size. The screen size will be enlarged to four times the normal size.

DVD-VIDEO/ normal size \rightarrow x2 \rightarrow x4 DVD-RW/-R \rightarrow x2 \rightarrow normal size



 When recording is done in the EP mode, the Zoom function will not be supported except when the recording has been done in V mode.

Playing an Audio CD/MP3

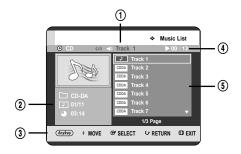
Playing an Audio CD(CD-DA)

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) you want to hear, and then press the **OK** button.

Audio CD(CD-DA) Screen Elements



- Current track (song): Displays the number of the track currently being played.
- 2. Displays the current play index, total track number.
- 3. Display available buttons.
- This shows the operating state of a disc and a playback time corresponding to a portion that is currently played.
- 5. Displays the track list (song list).

Buttons on the Remote Control used for Audio CD(CD-DA) playback



- 1. ▲▼: Selects a track (song).
- 2. **OK button:** Plays the selected track (song).
- 3. **SKIP** (⊕) button: Plays the next track.
- 4. SKIP (

) button: Returns to the beginning of the current track when pressed during playback. If pressed again, your DVD RECORDER moves to and plays the previous track. If you press the this button within three seconds after playback starts, the previous track will be played. If you press the this button after three seconds, the current track will be replayed from the beginning.
- 5. Press the SEARCH (\odot \odot) buttons: Fast Play (X2, X4, X8)
- 6. STOP () button: Stops a track(song).
- 7. **PLAY/PAUSE (**•••) **button:** Plays a track(song) or pauses playback.
- ANYKEY button: The ANYKEY menu is displayed. (Play Mode, Go To Playlist or New Playlist).

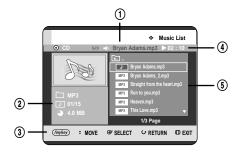
Playing an MP3 Disc

Insert an MP3 disc into the disc tray.
 The MP3 menu is displayed and the tracks (songs) are played automatically.



Press the ▲▼ buttons to select the track you want to hear, and then press the **OK** button.

MP3 Screen Elements



- Current track (song): Displays the name of the track being played.
- 2. Displays the current folder, play index and current track size.
- 3. Displays available buttons.
- This shows the operating state of a disc and a playback time corresponding to a portion that is currently played.
- 5. Displays the information for the folder and its tracks.



- If a disc contains only MP3 files or only JPEG files, the MP3 or JPEG screen appears after the disc is loaded.
- If a disc contains a mix of MP3 and JPEG files, you need to select Music for MP3 files or Photo for JPEG files.

Buttons on the Remote Control used for MP3 playback



- ▲▼: Selects a track (song).
- 2. OK button: Plays the selected track (song).
- 3. **SKIP** (**) **button:** Plays the next track.
- 4. SKIP ((()) button: Returns to the beginning of the current track when pressed during playback. If pressed again, your DVD RECORDER moves to and plays the previous track.
 - If you press the this button within three seconds after playback starts, the previous track will be played. If you press the this button after three seconds, the current track will be replayed from the beginning.
- 5. STOP (•) button: Stops a track(song).
- 6. PLAY/PAUSE (1) button: Plays a track(song) or pauses playback.
 7. ANYKEY button: The ANYKEY menu is displayed.
- (Play Mode, Go To Playlist, or New Playlist).

Repeat CD (CD-DA) & MP3



Using the REPEAT button.

Press the REPEAT button during playback.



Press the **REPEAT** button repeatedly to select the repeat mode you want.



- CD Repeat Track (CD (CD-DA)/MP3)
- Repeat Folder (MP3)
- (AD) Repeat All (CD (CD-DA)/MP3)
- Normal (CD (CD-DA)/MP3): Track on a disc are played in the order in which they were recorded on the disc.
- To return to normal playback -
- Press the REPEAT button repeatedly or CANCEL button to return to normal playback.



Using the ANYKEY button

Press the **ANYKEY** button during the Music List playback.



Press the ▲▼ buttons to select Play Mode, then press the OK or ▶ button.



- Press the ▲▼ buttons to select desired play mode, then press the OK or ▶ button.
 - Normal (CD (CD-DA)/MP3): Track on a disc are played in the order in which they were recorded on the disc.
 - D Repeat Track (CD (CD-DA)/MP3)
 - Repeat Folder (MP3)
 - 询 Repeat All (CD (CD-DA)/MP3)
 - (Random (CD (CD-DA)/MP3): The random option plays a disc's track in random order.

New Playlist

You can register a maximum 28 tracks in the playlist.

Press the **ANYKEY** button during the Music List playback.



Press the ▲▼ buttons to select New Playlist, then press the OK or ▶ button.



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



4 If you playlisted a wrong track, press the ►▲▼ buttons to select wrong track, then press the OK button. The wrong track will be removed.



To store the Playlist, press the **ANYKEY** button.



Press the ▲▼ buttons to select the Go To Playlist, then press the OK button. A new Playlist will be created.

Go To Playlist

Press the **ANYKEY** button during the Music List playback.



Press the ▲▼ buttons to select Go To Playlist, then press the OK or ▶ button.



Press the ▲▼ buttons to select the desired playlist folder, then press the OK button. The selected tracks are played automatically.

Delete the Playlist

Press the **ANYKEY** button during the Music List playback.



Press the A▼ buttons to select Go To Playlist, then press the OK or ➤ button.



3 Press the **▲▼** buttons to select the **Playlist** you want to delete.

Press the **ANYKEY** button.



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



6 Press the ◀► buttons to select Yes, then press the OK button. The selected Playlist is deleted.

Go To Edit Playlist

Press the **ANYKEY** button during the Music List playback.



Press the ▲▼ buttons to select Go To Playlist, then press the OK or ▶ button.



Press the ▲▼ buttons to select the **Playlist** you want to edit.

⚠ Press the ANYKEY button in playlist mode.



Press the ▲▼ buttons to select the Go To Edit
Playlist, then press the OK or ▶ button.



- Press the ▲▼ buttons to select tracks in order in which you want them to play, then press the OK button.
- If you playlisted a wrong track, press the ►▲▼ buttons to select wrong track, then press the OK button.
- To store the Playlist, press the **ANYKEY** button.



Press the ▲▼ buttons to select the Go To Playlist, then press the OK button. Playlist will be edited.

Go To Music List

Press the **ANYKEY** button during the Playlist playback.



Press the ▲▼ buttons to select Go To Music List, then press the OK or ▶ button.



Playing a Picture

Insert a JPEG disc or Mixed disc (JPEG + MP3) into the disc tray.



Press the ▲▼ buttons to select **Photo**, then press the OK or ► button.



- Press the ▲▼ ◀ ▶ buttons to select a picture.
 - To see the next 8 pictures, press the **SKIP**(•••) button.
 - To see the previous 8 pictures, press the **SKIP((---))** button.



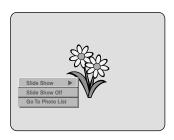
- If a disc contains only MP3 files or only JPEG files, the MP3 or JPEG screen appears after the disc is loaded.
- If a disc contains a mix of MP3 and JPEG files, you need to select Music for MP3 files or Photo for JPEG files.

Slide Show

Press the ANYKEY button, then press the OK button.



- Press the A▼ buttons to select the slide show speed, then press the OK or ▶ button. The slide show starts.
- To stop the Slide Show -
- Press the **ANYKEY** button.

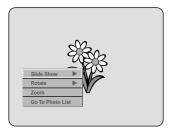


Press the ▲▼ buttons to select Slide Show Off, then press the OK or ▶ button.

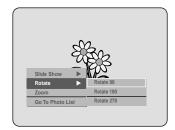
Rotate

To setup, follow steps 1 to 3 in page 63.

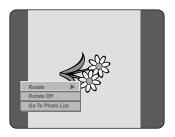
Press the **OK** button to select you want to see the picture, then press the **ANYKEY** button.



Press the ▲▼ buttons to select Rotate, then press the OK or ▶ button.



- 6 Press the ▲▼ buttons to select the rotate angle, then press the ok or ▶ button.
- To stop the Rotate -
- Press the **ANYKEY** button.

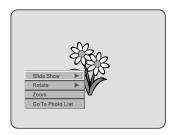


Press the ▲▼ buttons to select Rotate Off, then press the OK or ► button.

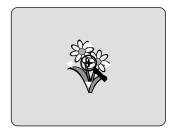
Zoom

To setup, follow steps 1 to 3 in page 63.

Press the **OK** button to select you want to see the picture, then press the **ANYKEY** button.



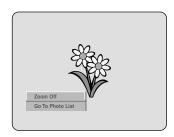
Press the A▼ buttons to select Zoom, then press the OK or ▶ button.



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

$$X2 \rightarrow X4 \rightarrow X2 \rightarrow Normal$$

- To stop the Zoom -
- Press the **ANYKEY** button.



Press the ▲▼ buttons to select Zoom Off, then press the OK or ▶ button.



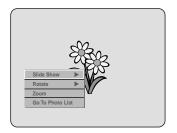
Some JPEG files may not support this function.

In this case, the message "This Photo can not be zoomed anymore." appears on the screen.

Go To Photo List

To setup, follow steps 1 to 3 in page 63.

Press the **OK** button to select you want to see the picture, then press the **ANYKEY** button.



Press the ▲▼ buttons to select Go To Photo List, then press the OK or ▶ button.



Recording

This section shows various DVD RECORDING methods.

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-RW	DVD-R
RW RW	DVD R

- •DVD-RWs are rewritable.
- •DVD-Rs are non-rewritable

Compatibility between Samsung and Other Company's Recorder

Disc Types	Recording format	Recording Device	Finalising	Additional Recording in Samsung Recorder
	Samsung	finalised	Not recordable	
	VR Mode	, , , , , , , , , , , , , , , , , , ,	not finalised	Recordable
		Other Company	finalised	Not recordable
DVD-RW		Other Company	not finalised	Recordable
	V Mode C	V Mode Other Company	finalised	Not recordable
			not finalised	Recordable
			finalised	Not recordable
			not finalised	Not recordable
DVD-R V Mode		Samsung	finalised	Not recordable
	Samsung	not finalised	Recordable	
	v iviode	Other Company	finalised	Not recordable
	Outer Company	not finalised	Not recordable	



- Finalise
 - This closes the DVD-RW/-R so no additional recording can be done.
- Unfinalise
 - This allows additional recording on a DVD-RW disc originally recorded on the DVD RECORDER.
 - A DVD-RW disc that has been recorded by DAO(Disc At Once) in a PC cannot be unfinalised.
 - A DVD-RW disc that has been recorded in Video Mode of a different maker's recorder cannot be unfinalised.
 - A DVD-R disc cannot be unfinalised.

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-RW: When unused DVD-RW disc is first inserted, the message "Uninitialized Disc Do you want to initialize this disc?" will be displayed. If you select **Yes**, the disc will be formatted in VR mode.

If you want to change the mode, refer to Formatting a Disc on page 92.



DVD-R: Formatting DVD is unnecessary and only Video Mode Recording is supported.

DVD-RW(V mode)/-R

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

DVD-RW(VR mode)

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

Recording Mode

Select one of four recording modes by pressing the **REC MODE** button repeatedly while the unit is in Stop mode 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. This function is selected only one mode in XP, SP, LP and EP modes and you can use this mode 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.	Appprox. 2 hours about 4 Mbps
LP (long recording mode)	Select when a recording time is required.	Approx. 4 hours about 2 Mbps
EP (extended mode)	Select when a longer 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 74.	Approx. 60 to 480 Min Approx. 0.8 to 8 Mbps



 Recording time may vary according to specific conditions.

Unrecordable pictures

Video with copy protection cannot be recorded on this DVD RECORDER.

When the DVD RECORDER 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 programme, use DVD-RW with CPRM in VR Mode.

Media Signal type	Copy-Free	Copy-Once	Copy-Never
DVD-RW(Ver.1.1)	0	-	-
DVD-RW(Ver.1.1)			
with CPRM			
VR mode	0	O*	-
V mode	0		-
DVD-R	0		-

Once "Copy Once" has been recorded, recording cannot be done anymore.

- 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. 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 TV programme you are watching





Before you start

Check that the disc has enough available space for the recording. Adjust the recording mode.

- 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.

If an unused DVD-RW disc is used, whether to initialize or not will be asked first. Make your selection, then press the **OK** button.(See page 67)



Press the PROG (⊙ ⊙) or Number buttons to select the current programme you want to record.

Press the REC MODE button repeatedly, (or press the REC MODE button and then press the ▲▼ buttons) to select the recording speed(quality).

$$\vdash \mathsf{SP} \to \mathsf{LP} \to \mathsf{EP} \to \mathsf{XP}$$



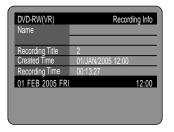
Press the REC button.
Information concerning the channel is displayed on the screen, then recording begins.
'REC' is displayed on the front panel.



To view the current status of the disc and progress of recording: Press the **INFO** button, and information about the disc will appear.

DVD-RW(VR)	Disc Info
Disc Name	
Total Title	2
Total Playlist	None
Recordable Time	02:04 SP
Protection	Not Protected
Screen	Recording: PR 4 [SP]
01 FEB 2005 FRI	12:00

Press the **INFO** button once again.
Then you can check the information about the title being recorded.



- To pause recording -

- Press the **PLAY/PAUSE** (🔟) button to pause a recording in progress.
- Press the **PLAY/PAUSE** () button again during pause to resume recording.
- You can switch channels by pressing the PROG (⊙ ⊙) buttons while recording pauses.

- To stop recording -

Press the **STOP** (①) button to stop or finish a recording in progress.

 When using DVD-RW/-R discs, the message "Updating the information of disc. Please wait for a moment" is displayed.



- You can not change the recording mode and the PROG while recording.
- Recording will stop automatically if there is no free space left for recording.
- Up to 99 titles can be recorded onto a disc.(DVD-RW/-R)
- Recording will stop automatically if a copy protected image is selected.
- DVD-RW discs must be formatted before starting to record. Most new discs are sold unformatted.
- Do not use DVD-R authoring discs with this unit.

Recording from external equipment you are watching





Before you start

Check that the disc has enough available space for the recording. Adjust the recording mode.

- 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. If an unused DVD-RW disc is used, whether to initialize or not will be asked first. (See page 67)
- Press the **INPUT** button to select the input source according to the connection you made.

 The front panel display changes in the following sequence:

PR Number → AV1 → AV2 → AV3 ¬

Press the **REC MODE** button repeatedly, (or press the **REC MODE** button, then press the ▲▼ buttons) to select the recording speed (quality).

 \mapsto SP \rightarrow LP \rightarrow EP \rightarrow XP



Press the **REC** button.

Information concerning the external input mode is displayed on the screen, then recording begins. 'REC' is displayed on the front panel.

- To pause recording -

- Press the **PLAY/PAUSE** ((•)) button to pause a recording in progress.
- Press the **PLAY/PAUSE** () button again during pause to resume recording.
- You can switch channels by pressing the PROG (⊙ ⊙) buttons while recording pauses.

- To stop recording -

Press the **STOP** (①) button to stop or finish a recording in progress.

 When using DVD-RW/-R discs, the message "Updating the information of disc. Please wait for a moment" is displayed.

Making an One Touch Recording (OTR)

You can set the DVD RECORDER to record in 30-minute increments up to 9 hours by pressing the **REC** button.





After setting desired REC MODE or INPUT source (see pages 68~70), Press the **REC** button to start recording.

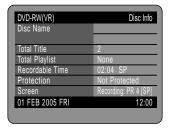


2 Press the **REC** button repeatedly to adjust the desired recording time.



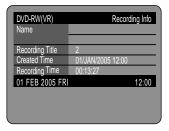
The timer counter decreases by the minute from 9:00 to 0:00, then the DVD RECORDER stops recording.

To view the current status of the disc and progress of recording: Press the **INFO** button, and information about the disc will appear.



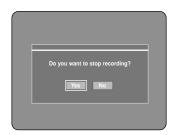
Press the INFO button once again.

Then you can check the information about the title being recorded.



To stop recording

Press the **STOP** (②) button. The message "Do you want to stop recording?" is displayed.



- Press the ◀► buttons to select Yes, then press the OK button.
- Or press the **OK** button again.

Making a Timer Recording





- 1. Check the antenna cable is connected.
- 2. Check the remaining time of the disc.
- 3. Check the date and time are correct. Make sure the Clock (Setup-Clock Set) must be set before you proceed with a timer recording. (See page 25)



Using the TIMER button

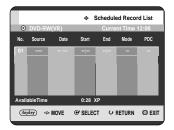
With the unit in Stop mode, press the TIMER button.



Using the MENU button.

- With the unit in Stop mode/Playback mode, press the **MENU** button.
- Press the ▲▼ buttons to select Programme, then press the **OK** or **▶** button.

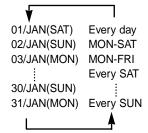






Set timer recording option.

- Fill the input items using the ▲▼◀► buttons and Number buttons.
- ◆ ► : Moves to the previous/next item.
- **▲**▼, **0~9** : Sets a value.
- Source: The video input source (AV1, AV2 or AV3), or the broadcasting channel you want to make a timer recording from.
- Date: Timer Recording allows setting the recording time within one month period. Set the recording day. (day/month)



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

• Mode (Recording Mode):

- 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. This function is selected only one mode in XP, SP, LP and EP modes.
- XP (high quality): Select when video quality is important.
- SP (standard quality) : Select to record in standard quality.
- LP (low quality): Select when a long recording time is required.
- EP (extended): Select when a longer recording time is required.



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

- PDC : PDC(Programme Delivery Control) function.
 - If you set this function on, you can control the starting and ending time of recording by special signal included in the broadcasting signal. If a TV programme is shortened or starts earlier or later than scheduled, this function synchronizes the starting and ending time of recording with the actual broadcasting time automatically.
 - Set up the start-time EXACTLY according to the published TV schedule. Otherwise the timer recording will not operates.
 - Do not select PDC unless you are sure the programme you wish to record is broadcast with PDC.
- TITLE: To label the title name, select the title and then press the OK button. Title renaming screen appears.
 See page 77 for the registration.

4

After selecting the set up value for each mode, press the **OK** button to select **Save**, and press the **OK** button again.

If the timer settings overlap;

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

To exit without saving the current setting Press the MENU button.

To return to the previous menu

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



Turn the power off to finish the Timer Recording setting.

• ① will appear on the front panel. It means that a timer recording is registered.

Timer Recording will not work when the power is on.



- 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 2 minutes before the start time of the next recording.)
- You can make the Timer Recording up to 12 programmes.

Flexible Recording (for Timer recording only)





In Auto mode, the most suitable record mode is adjusted automatically, according to remaining time on the disc and length of the timer recording. This function is selected only one mode in XP, SP, LP and EP modes and you can use this mode for timer recording.

The Auto mode recording setup is the same as Timer Recording. When setting the mode in step 4, set the Auto mode.

Editing the Scheduled Record List

Follow these directions to edit the Scheduled Record List.







Using the TIMER button

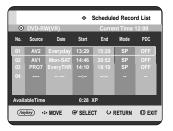
With the unit in Stop mode, press the **TIMER** button.



Using the MENU button.

- With the unit in Stop mode/Playback mode, press the MENU button.
- Press the ▲▼ buttons to select Programme, then press the OK or ▶ button.

? Press the **OK** button.



- Press the ▲▼ buttons to select the number of the Scheduled Record List you want to edit, then press the ANYKEY button.
 - The Add, Edit, Delete items are displayed.



- Press the ▲▼ buttons to select Edit, then press the OK or ▶ button.
 - The Scheduled Record Input item is displayed.
 Edit the items you want to modify. See the "Making a Timer Recording" section for more information on Scheduled Recording Input items. (See page 72)



- Press the **OK** button to select **Save**, then press the **OK** button to confirm the edited setting.
- Press the **MENU** button after finishing the operation. The Scheduled Record List screen will disappear.

Deleting a Scheduled Record List

Follow these directions to delete an entry from the Scheduled Record List.







Using the TIMER button

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



Using the MENU button.

- With the unit in Stop mode/Playback mode, press the MENU button.
- Press the ▲▼ buttons to select Programme, then press the OK or ▶ button.
- Press the **OK** button.



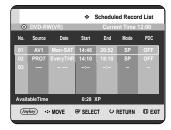
- Press the ▲▼ buttons to select the number of the Scheduled Record List you want to delete, and then press the ANYKEY button.
 - The Add, Edit, Delete items are displayed.



- Press the ▲▼ buttons to select **Delete**, then press the **OK** or ▶ button.
 - You will be prompted with the delete confirm message such as "Do you want to delete No.01?".



- 5 Press the ◀► buttons to select **Yes**, then press the OK button
 - The selected entry will be deleted from the list.



Press the **MENU** button after finishing the operation. The Scheduled Record List screen will disappear.



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

Basic Editing (Title List)
Advanced Editing (Playlist)82
Disc Manager91

• Title List

A title is a section of recorded video and audio. Title List shows a list to help you select a title. Since the title consists of the information on stream that is actually recorded, if one title is deleted, that title cannot be played again.

• Play List

This refers to a unit of playback, which is made by selecting a desired scene in the entire Title List. When one playlist is played, only the scene selected by the user will play and then stop. Since only the information necessary for playing a desired scene is included in a playlist, even if that playlist is deleted, the original stream will not be deleted.

Recording or editing might not be completed if an error, such as a sudden power failure occurs. Please be aware that a material that has been damaged is unable to be retrieved to its original content.

Basic Editing (Title List)

Renaming(Labeling) a Title

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



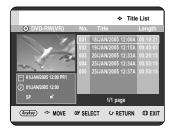




Using the TITLE LIST button

With the unit in Stop mode/Playback mode, press the TITLE LIST button.

The Title List screen is displayed.



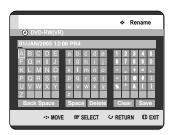
Using the MENU button.

- With the unit in Stop mode/Playback mode, press the **MENU** button.
- Press the ▲▼ buttons to select Disc
 Navigation, then press the OK or ▶ button twice.
- Press the ▲▼ buttons to select an entry you want to rename from the Title List, then press the ANYKEY button.

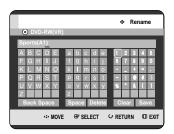


Press the ▲▼ buttons to select Rename, then press the OK or ▶ button.

The Rename screen is displayed.



Select the desired characters using the ▲▼ ◀ ▶ buttons, press the OK button.



- Back Space: Deletes and moves the cursor backwards by one position. (Equivalent to the CANCEL button)
- 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 ▲▼ ◀► buttons to select Save, and then press the OK button.

The changed title name is displayed on the title item of the selected entry.



Locking (Protecting) a Title

Follow these instructions to lock an entry to protect it from accidental deletion.







Using the TITLE LIST button

With the unit in Stop mode/Playback mode, press the TITLE LIST button .

The Title List screen is displayed.



Using the MENU button.

- With the unit in Stop mode/Playback mode, press the **MENU** button.
- Press the ▲▼ buttons to select Disc
 Navigation, then press the OK or ► button twice.
- Press the ▲▼ buttons to select an entry you want to protect from the Title List, then press the ANYKEY button.



Press the ▲▼ buttons to select **Protection**, then press the **OK** or ▶ button.



Press the ◀ ▶ buttons to select **On**, then press the **OK** button. The key icon on the information window for the selected entry changes to the locked status. (**a** → **b**)



Deleting a Title

Follow these instructions to delete an entry from the Title List.







Using the TITLE LIST button

With the unit in Stop mode/Playback mode, press the TITLE LIST button.

The Title List screen is displayed.



Using the MENU button.

- With the unit in Stop mode/Playback mode, press the **MENU** button.
- Press the ▲▼ buttons to select Disc Navigation, then press the OK or ▶ button twice.
- Press the ▲▼ buttons to select an entry you want to delete in the Title List, then press the ANYKEY button.



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



- The message may be different depend on the type of disc. You will be prompted with the confirmation message. 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)/-R: Since Playlist is not present, the message "Do you want to delete?" is displayed.
- Press the ◀▶ buttons to select **Yes**, then press the **OK** button.







- You cannot delete a protected entry. If you want to delete a protected entry, select "Off" in the Title Protection menu. (See page 78)
- When the Disc Protection has been set to Protected, you cannot delete titles. (See page 92)
- Once an entry is deleted from the Title List it cannot be recovered.
- Once DVD-RW/-R is finalised, it cannot be deleted.

Deleting a Section of a Title (Partial Delete)

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



(VR mode)



Using the TITLE LIST button

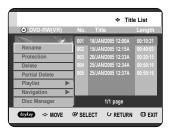
With the unit in Stop mode/Playback mode, press the TITLE LIST button.

The Title List screen is displayed.



Using the MENU button.

- With the unit in Stop mode/Playback mode, press the **MENU** button.
- Press the ▲▼ buttons to select Disc
 Navigation, then press the OK or ► button twice.
- Press the ▲▼ buttons to select an entry you want to edit from the Title List, then press the ANYKEY button.



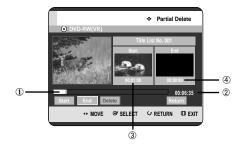
Press the ▲▼ buttons to select Partial Delete, then press the OK or ▶ button.



Press the **OK** 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



- Playback bar
- ② Playtime
- 3 Section deletion starting point window and time
- 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 : (PLAY((1)), SEARCH (10)(1))

Press the **OK** button at the end point.

The image and end point time are displayed in the Section deletion ending point window.



Press the ◀ ▶ buttons to select **Delete**, then press the **OK** button.





- Press the ◀ ▶ buttons to select Yes, then press the OK button. The selected section has been deleted.
- Press the ◀ ▶ buttons to select **Return**, then press the **OK** button to finish the operation.



- 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.

Advanced Editing (Playlist)

Creating a Playlist

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



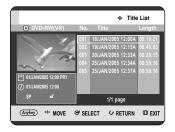
(VR mode)



Using the TITLE LIST button

With the unit in Stop mode/Playback mode, press the TITLE LIST button.

The Title List screen is displayed.



Using the MENU button.

- With the unit in Stop mode/Playback mode, press the **MENU** button.
- Press the ▲▼ buttons to select Disc
 Navigation, then press the OK or ► button twice.
- Press the ANYKEY button.

 Press the A▼ buttons to select Playlist, then press the OK or ▶ button.



Press the ▲▼ buttons to select New Playlist, then press the OK or ▶ button.

The Edit Playlist screen is displayed.



Press the **OK** button at the start point.



- The image and time at the start point are displayed on the Start window.
- The yellow-coloured 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 (PLAY(⊙), SEARCH (⊙⊙)).
- Press the **OK** button at the end point.



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

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

- To make a scene for playlist.
 A new Make scene screen is displayed.

 Repeat steps 3-6 to make scene of playlist.
 New scene will be added to the current playlist.
 You can check and see all the scenes on Edit playlist screen. (See page 85)
- To make a new playlist.
 Repeat steps 1~6 if you want to make a new playlist.
- Press the ◀ ▶ button to select **Return**, then press the **OK** button for finishing the operation.



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

Playing Entries in the Playlist

Follow these instructions to play the playlist entries.





Using the PLAY LIST button

With the unit in Stop mode/Playback mode, press the PLAY LIST button.

The Playlist screen is displayed.



Using the MENU button.

- Press the **MENU** button with the disc stopped.
- Press the ▲▼ buttons to select Playlist, then press the OK button.
- Press the ▲▼ buttons to select Playlist, then press the OK button.
- Press the ▲▼ buttons to select the playlist you want to play, then press the **OK** or **PLAY** (⊙) button.
- Press the **STOP** (①) button to stop playing. The screen returns to the Playlist screen.

Renaming a Playlist Entry

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



(VR mode)



Using the PLAY LIST button

With the unit in Stop mode/Playback mode, press the PLAY LIST button.

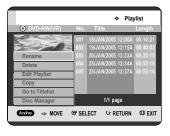
The Edit Playlist screen is displayed.



Using the MENU button.

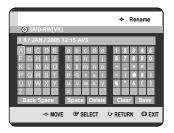
- Press the **MENU** button with the disc stopped.
- Press the ▲▼ buttons to select Playlist, then press the OK button.
- Press the ▲▼ buttons to select Playlist, then press the OK button.
- Press the ▲▼ buttons to select the title you want to Rename from the Playlist, then press the ANYKEY button.

ANYKEY menu is displayed: Rename, Delete, Edit Playlist, Copy, Go to Titlelist, Disc Manager.

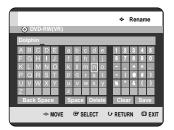


Press the ▲▼ buttons to select Rename, then press the OK or ► button.

The Rename screen is displayed.



Select the desired characters using the ▲▼ ◀ ▶ buttons, then press the **OK** button.



- This function is the same as the Rename function in the renaming the title. (See page 77)
- The maximum number of characters that can be entered is 31. All 31 characters can be displayed by pressing the **INFO** button.
- Press the ▲▼ ◀ ▶ buttons to select Save, then press the OK button.

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



Editing a Scene for the Playlist

Follow these instructions to edit scenes for a playlist.



(VR mode)



Using the PLAY LIST button

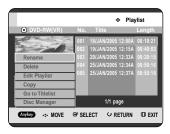
With the unit in Stop mode/Playback mode, press the PLAY LIST button.

The Edit Playlist screen is displayed.



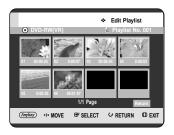
Using the MENU button.

- Press the MENU button with the disc stopped.
- Press the ▲▼ buttons to select Playlist, then press the OK button.
- Press the ▲▼ buttons to select Playlist, then press the OK button.
- Press the ▲▼ buttons to select the title you want to edit from the Playlist, then press the ANYKEY button. The Edit Playlist menu is displayed: Rename, Delete, Edit Playlist, Copy, Go to Titlelist, Disc Manager.



Press the ▲▼ buttons to select Edit Playlist, then press the OK or ▶ button.

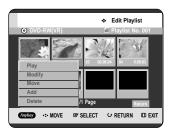
The Edit Scene screen is displayed.



Playing a Selected Scene

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

The playlist entry to be played is selected.



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

The selected scene is played.



• To stop scene play, press the STOP (•) button.

To setup, follow steps 1 to 3 in page 85.

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



Press the ▲▼ buttons to select **Modify**, then press the **OK** or ▶ button.

The Modify Scene screen is displayed.



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



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

7 Press the **OK** button at the end point of the scene.



- The image and ending point time are displayed in the End window.
- Press the ◀ ▶ buttons to select **Change**, then press the **OK** button.



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

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



Press the ▲▼ buttons to select **Move**, then press the **OK** or ▶ button.



 A yellow selection window is displayed on the scene to be moved. Press the ▲▼ ◀► buttons to select the position to which you want to move the selected scene, then select the **OK** button.



The selected scene is moved to the selected position.





NOTE

- You cannot move the selected scene to the position of the next scene, because the selected scene should be inserted before that position, which requires no action.
- Depending on the kind of disc, the displayed screen may have a slight difference.

To setup, follow steps 1 to 3 in page 85.

Press the ▲▼ ◀ ▶ buttons to select the scene that will have a new scene inserted before it, then press the ANYKEY button.



Press the ▲▼ buttons to select Add, then press the OK or ▶ button.

The Add Scene screen is displayed.



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



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

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

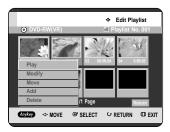


- The image and time of the end point are displayed in the End window.
- Press the ◀► buttons to select Add, then press the OK button.



 The section you want to add is inserted prior to the scene selected in step 4 of Adding a Scene on the previous page. 4

Press the ▲▼ ◀ ▶ buttons to select the scene you want to delete, then press the ANYKEY button.



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



- The message "Do you want to delete the scene ?" is displayed.
- Press the ◀► buttons to select Yes, then press the OK to delete the selected scene.

Deleting a Playlist Entry from the Playlist



Using the PLAY LIST button

With the unit in Stop mode/Playback mode, press the **PLAY LIST** button.

The Edit Playlist screen is displayed.



Using the MENU button.

- Press the **MENU** button with the disc stopped.
- Press the ▲▼ buttons to select Playlist, then press the OK button.
- Press the ▲▼ buttons to select Playlist, then press the OK button.
- Press the ▲▼ buttons to select the title you want to edit from the Playlist, then press the ANYKEY button. The Edit Playlist menu is displayed: Rename, Delete, Edit Playlist, Copy, Go to Titlelist, Disc Manager.



calling

- Press the ▲▼ buttons to select **Delete**, then press the **OK** or ▶ button.
 - You will be prompted with the delete confirmation message "Do you want to delete?".



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

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





Copying a Playlist Entry to the Playlist



Using the PLAY LIST button

With the unit in Stop mode/Playback mode, press the PLAY LIST button.

The Edit Playlist screen is displayed.



Using the MENU button.

- Press the **MENU** button with the disc stopped.
- Press the ▲▼ buttons to select Playlist, then press the OK button.
- Press the ▲▼ buttons to select Playlist, then press the OK button.
- Press the ▲▼ buttons to select the title you want to edit from the Playlist, then press the ANYKEY button. The Edit Playlist menu is displayed: Rename, Delete, Edit Playlist, Copy, Go to Titlelist, Disc Manager.



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

Playlist that has been selected will be copied.



Disc Manager

Editing the Disc Name

Follow these instructions to give a name to a disc.





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



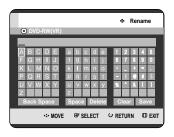
Using the MENU button.

- With the unit in Stop mode/Playback mode, press the **MENU** button.
- Press the ▲▼ buttons to select **Disc Manager**, then press the **OK** or ▶ button.

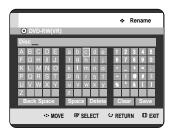


Press the ▲▼◀▶ buttons to select Rename, then press the **OK** button.

The Rename screen is displayed.



4 Select the desired characters using the ▲▼◀► buttons, then press the **OK** button.



Press the ▲▼ ◀► buttons to select Save, then press the OK button.
A disc name is given to the disc.





- You may need to clear disc protect before beginning editing.
- Depending on the kind of disc, the displayed screen may be different.

Disc Protection

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





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



Using the MENU button.

- With the unit in Stop mode/Playback mode, press the **MENU** button.
- Press the ▲▼ buttons to select **Disc Manager**, then press the **OK** or ▶ button.



Press the ▲▼ ◀▶ buttons to select **Protection**, then press the **OK** button.



Press the ◀► buttons to select **ON** then press the **OK** button.

Formatting a Disc

Use these instructions to format a disc. The disc protect should also be cleared.



With the unit in Stop mode, press the **ANYKEY**



Using the MENU button.

- With the unit in Stop mode/Playback mode, press the **MENU** button.
- Press the ▲▼ buttons to select **Disc Manager**, then press the **OK** or ▶ button.



- Press the ▲▼◀► buttons to select Format, then press the OK button.
 - You will be prompted with the confirmation message "Choose the recording format for DVD-RW."



- Press the **►** buttons to select desired mode, then press the **OK** button.
 - You will be prompted again with the message "All data will be deleted. Do you want to continue?"



Press the **→** buttons to select **Yes**, then press the **OK** button. The disc is formatted.

DVD-VR and DVD-V are defined according to their recording format.

	DVD-VR	DVD-V
DISC	DVD-RW	DVD-RW
		DVD-R

Delete All Title Lists





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



Using the MENU button.

- With the unit in Stop mode/Playback mode, press the **MENU** button.
- Press the ▲▼ buttons to select **Disc Manager**, then press the **OK** or ▶ button.



- Press the ▲▼◀▶ buttons to select **Delete All**, then press the **OK** button.
 - You will be prompted with the confirmation message "Do you want to delete all title lists?".



If you select **Yes**, you will be prompted again with the message "All data will be deleted. Do you want to continue?".

- When Protected Entry 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 entry, disable Protect for it on the Lock item.
- Press the ◀► buttons to select Yes, then press the OK button.

 All title lists are deleted.

Finalising a Disc

After you record titles onto a DVD-RW/-R disc with your DVD RECORDER, it needs to be finalised before it can be played back on external devices.





With the unit in Stop mode, press the ANYKEY button



Using the MENU button.

- With the unit in Stop mode/Playback mode, press the **MENU** button.
- Press the ▲▼ buttons to select **Disc Manager**, then press the **OK** or ▶ button.



Press the ▲▼ ◀ ▶ buttons to select Finalise, then press the OK button.

You will be prompted with the message "Do you want to finalise disc?".



If you select **Yes**, you will be prompted again with the message "Disc will be finalised. Do you want to continue?".



4

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

The disc is finalised.



- Once a disc is finalised, you cannot delete entries from the record list.
- After being finalised, the DVD-R/DVD-RW(video mode) operates in the same manner as a DVD-Video.
- Depending on the disc type, the displayed screen may be different.
- Finalising 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 finalise process.
- When the disc contains a music or JPEG files, you cannot finalise the disc.

Unfinalising a Disc (V/VR mode)



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



Using the MENU button.

- With the unit in Stop mode/Playback mode, press the MENU button.
- Press the ▲▼ buttons to select **Disc Manager**, then press the **OK** or ▶ button.



Press the ◀▶ buttons to select **Unfinalise**, then press the **OK** button.

You will be prompted with the message "Do you want to unfinalise disc?".



If you select **Yes**, you will be prompted again with the message "Disc will be unfinalised. Do you want to continue?".



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

The disc is unfinalised.



 A DVD-RW can be finalised or unfinalised in Video mode.

	Finalise	Unfinalise
Mark	DVD-Video(RW)	DVD-RW(V)
Operation	Same as DVD-Video	Additional recording, protection
Operation	Same as DVD-Video	and deletion are possible.

 A DVD-RW can be finalised or unfinalised in VR mode.

	Finalise	Unfinalise
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.



Troubleshooting

If your product malfunctions, go through the checkpoints below before contacting a Samsung authorised service centre.

Power

The input is displayed for a while when the power is turned on.



Checkpoint 1

The DVD RECORDER requires some time to initialize and the input will be displayed for approx. 10 seconds after it is turned on.

Recording

Cannot record TV programmes.



Checkpoint 1

Check whether the power cord is securely plugged into the power outlet.

Checkpoint 2

Did you set the DVD RECORDER channel settings correctly?

Checkpoint 3

Check the free space on your DVD-RW/-R discs.

I pressed the **REC** button but there is no response.



Checkpoint 1

Recording is possible for DVD-RW/-R discs only.

If a programme is copy protected, it cannot be recorded.

Playback

Cannot play the disc.



Checkpoint 1

Check whether the disc is inserted correctly with the label facing up.

Checkpoint 2

Check the regional code of the DVD disc.

Checkpoint 3

This DVD RECORDER cannot play some types of discs. (See pages 5, 40)



Checkpoint 1

You cannot use this operation or function due to one of the following reasons:

- (1) Your DVD disc restricts it.
- (2) Your DVD disc does not support this feature (for example: angles)
- (3) The feature is not available at the moment.
- (4) You've requested a title, chapter, or scan time that is out of range.

Play mode settings are different from the settings configured in the Settings menu.



Checkpoint 1

The disc does not support all selected functions. In this case, some settings configured in the settings menu may not work properly.

Cannot change the aspect ratio.



Checkpoint 1

The aspect ratio is fixed for DVD discs. (See pages 34~35)

The angle operation does not work while playing a DVD disc.



Checkpoint 1

The angle operation is available only when the disc contains images captured from different angles.

The selected audio and/or subtitle language is not played.



Checkpoint 1

Audio and subtitle languages are disc-specific. Only the sound and subtitle languages contained on the DVD disc are available and displayed in the disc menu.

Video

The disc revolves, but no image or bad quality images are displayed.



Checkpoint 1 Be sure that the Video Setting is properly set. (See pages 34~35)

Checkpoint 2 Check whether there is damage to or any foreign material on your disc.

Some low quality discs may not play properly.

Checkpoint 4 If scenes change from dark to bright suddenly, the screen may shake vertically temporarily, but this is not a fault.

Sound

No sound.



Are you watching a programme in slow or skip mode?

If you are playing a programme at a speed other than normal speed, sound will not be heard.

Checkpoint 2 Check the connections and settings. (See pages 20~21, 33~34)

Checkpoint 3 Check whether the disc is damaged.
Clean the disc, if necessary.

Check whether the disc is inserted correctly with the label facing up.

No audio output.



Checkpoint 1

Check whether you have selected the correct digital output options in the Audio Output Options menu. (See page 33~34)

Timer Recording

Timer lamp flickers.



Checkpoint 1

Check there is enough space in the disc for recording.

Checkpoint 2

Check whether the current disc is recordable or not.

Make sure to check before the start time of recording.

Timer recording does not work properly.



Checkpoint 1

Re-check the recording time and the end time settings again.

Checkpoint 2

Recording will be cancelled if the power is interrupted due to a power failure or another similar reason while recording.

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Remote Control Unit

The remote control doesn't work.



Checkpoint 1

Point the remote control at the remote control sensor on your DVD RECORDER. Allow for proper distance. Remove obstacles between your DVD RECORDER and the remote control.

Checkpoint 2

Check whether the batteries are empty.

Checkpoint 3

Check for the **TV/DVD** selection button.

Other

I forgot my password for parental supervision.



Checkpoint 1

Press and hold the ►►I button on the front panel of the Recorder for more than 5 seconds with no disc in the unit. All settings including the password will revert to the factory settings. Do not use this unless absolutely necessary. (Note that this function is possible only when no disc is inserted.)

Is it possible to change a subtitle and an audio signal on a recorded disc?



Checkpoint 1

A recorded disc is played with only the subtitle and the audio signal which were selected during recording. Other problems.



Checkpoint 1

Read the table of contents and then find and read the section describing your problem, follow the instructions given.

Checkpoint 2

Plug your DVD RECORDER off and

Checkpoint 3

If the problem still persists, contact a nearby Samsung service centre.

Specifications



	Power requirements		220-240V AC, 50Hz
General	Power consumption		35 Watts
	Weight		2,7Kg
	Dimensions		430mm(W) x 250mm(D) x 59mm(H)
	Operating temp.		+5°C to +35°C
	Other conditions		Keep level when operating. Less than 75% operating humidity
	Video		Composite Video : 1,0 V p-p at 75Ω load, sync negative
Input	Audio		Max.Audio Input Level : 2Vrms
	Receivable Channels		PAL-I
	Scart Jack	AV1 (Scart TV)	Video : Composite, Audio: analogue
		AV2 (Scart Ext)	Video : Composite, RGB Audio: analogue
	Audio		Analogue output jacks x 2
			Optical/Coaxial digital audio output
	Video		Composite Video : Video output jack x 1
Output			S-Video output x 1 (Y:1,0Vp-p, C:0,286Vp-p at 75Ω load)
			Component output x 1 (Y: 1,0Vp-p, Pb: 0,70Vp-p, Pr: 0,70Vp-p at 75Ω load)
	Scart Jack	AV1 (Scart TV)	Video : Composite, RGB Audio: analogue
	Picture Compression format		MPEG-II
Recording	Audio Compression format		Dolby Digital 2ch/256Kbps, MPEG-II
	Recording Quality		XP (about 8 Mbps), SP (about 4 Mbps), LP (about 2 Mbps),
			EP (about 1,2 Mbps or about 0,8 Mbps)
	Audio Frequency Response		20 Hz ~ 20 kHz

Audio Output

For DVD discs, audio signals recorded at 96kHz sampling frequency are converted into and output at 48kHz.

Disc Type	DVD	AUDIO CD(CD-DA)
Analog Audio Output	48 / 96kHz	44,1kHz
Digital Audio Output	48kHz	44,1kHz





This Samsung product is warranted for the period of twelve (12) months from the original date of purchase, against defective materials and workmanship. In the event that warranty service is required, you should return the product to the retailer from whom it was purchased.

However, Samsung Authorised Dealers and Authorised Service Centres in other EC Countries will comply with the warranty on the terms issued to purchasers in the country concerned.

In case of difficulty, details of our Authorised Service Centres are available from:

> Samsung Electronics (U.K.) Ltd., Euro Service Centre, Stafford Park 12, TELFORD, Shropshire TF3 3BJ, Tel: 0870) 242 0303, Fax: 01952) 297617

■ WARRANTY CONDITIONS

- The warranty is only valid if, when warranty service is required, the warranty card is fully and properly completed and is presented with the original invoice or sales slip or confirmation, and the serial number on the product has not been defaced.
- Samsung's obligations are limited to the repair or, at its discretion, replacement of the product or the defective part.
- 3. Warranty repairs must be carried out by Authorised Samsung Dealers or Authorised Service Centres. No re-imbursement will be made for repairs carried out by non Samsung Dealers and, any such repair work and damage to the products caused by such repair work will not be covered by this warranty.

- 4. This product is not considered to be defective in materials nor workmanship by reason that it requires adaptation in order to conform to national or local technical or safety standards in force in any Country other than the one for which the product was originally designed and manufactured. This warranty will not cover, and no reimbursement will be made for such adaptation nor any damage which may result.
- 5. This warranty covers none of the following:
 - a) Periodic check ups, maintenance and repair or replacement of parts due to normal wear and tear.
 - b) Cost relating to transport, removal or installation of the product.
 - c) Misuse, including the faiure to use this product for its normal purposes or incorrect installation.
 - d) Damage caused by Lightning, Water, Fire, Acts of God, War, Public Disturbances, incorrect mains voltage, improper ventilation or any other cause beyond the control of Samsung.
- This warranty is valid for any person who legally acquired possession of the product during the warranty period.
- 7. The consumers statutory rights in any applicable national legislation whether against the retailer arising from the purchase contract or otherwise are not affected by this warranty. Unless there is national legislation to the contrary, the rights under this warranty are the consumers sole rights and Samsung, its subsidiaries and distributors shall not be liable for indirect or consequential loss or any damage to records, compact discs, videos or audio taper or any other related equipment or material.

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Correct Disposal of This Product
(Waste Electrical & Electronic Equipment)



(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

AK68-00870A-00

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