

# DVD RECORDER OWNER'S MANUAL

MODEL: DR275/DR265

Before connecting, operating or adjusting this product, please read this instruction booklet carefully and completely.

















#### CAUTION

ISK OF ELECTRIC SHOCK DO NOT OPEN



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



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



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

**WARNING:** TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

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

#### **CAUTION:**

Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from over heating.

The openings should be never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instruction have been adhered to.

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

#### CAUTION:

CLASS 3B VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED AVOID EXPOSURE TO THE BEAM.

#### **CAUTION:**

This product employs a Laser System.

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

Performing controls, adjustments, or carrying out procedures other than those specified herein may result in hazardous radiation exposure.

To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation when open. DO NOT STARE INTO BEAM.

**CAUTION:** The apparatus should not be exposed to water (dripping or splashing) and no objects filled with liquids, such as vases, should be placed on the apparatus.

#### **CAUTION** concerning the Power Cord

### Most appliances recommend they be placed upon a dedicated circuit;

That is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain.

Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized servicer.

Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance.

To disconnect power from the mains, pull out the mains cord plug. When installing the product, ensure that the plug is easily accessible.



#### Disposal of your old appliance

- When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
- All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
- 3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
- For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.



This product is manufactured to comply with the EEC DIRECTIVE 2004/108/EC and 2006/95/EC.

### **Contents**

Introduction	
About the ⊘ symbol display	
Symbol Used in this Manual	
Notes on Discs	4
Recordable and Playable Discs	
Playable Discs	
Regional Code	
Front Panel	
Remote Control	
Remote Control Operation	8
Hookup and Settings	.9-22
Rear Panel	
Connecting to the antenna	
Connections to Your TV	
Connecting to an Amplifier	
Accessory Audio/Video (A/V) Connections	12-13
Auto Set Up	
Using the Home Menu	14
Initial Settings	15
General Operation	
General Settings	
Auto Programming	
Program Edit	
Clock Set	
TV Aspect	
Progressive Scan / AV2 Connection	
Video Output Format / Power Save Mode	
Factory Set	
Language Settings	
Display Menu	1/
Audio Settings	10
Sampling Frequency	
DRC (Dynamic Range Control)	
Lock (Parental Control) Settings	18-19
Rating	
Set Password / Area Code	19
Recording Settings	
Record Mode Set	
Auto Chapter	
Disc Settings	
Initialize / Finalize	20
Disc Label / Disc Protect	21
PBC / DivX Registration Code	21
General Explanation of On-Screen Display .	22

Playback.23-29General Playback Features.23-25Playing a DivX Movie File.26Playing an Audio CD or MP3/WMA file.27Viewing a JPEG File.28-29
Recording30-34About DVD recording.30-31Basic Recording from a TV.32Instant Timer Recording.32Timer Recording.33Checking Timer Recording Details.34Recording from an External Input.34
Editing.35-41Title List and Chapter List Menu Overview.35VR Mode: Original and Playlist Editing.36Adding Chapter Markers.36Changing The Title Thumbnails.36Making a New Playlist.37Adding Additional Title/Chapters to the Playlist.37Deleting an Original or Playlist Title/Chapter.38Deleting a Part.38Naming a Title.39Time Search.39Divide One Titles Into Two.40Combining Two Chapters Into One.40Moving a Playlist Chapter.41Hide a Chapter/Title.41Protect a Title.41
Reference.42-47Additional Information.42Overwriting Recording.42Viewing Title List menu displayed on otherDVD Recorders or Players.42Playing Your Recordings on Other DVDPlayers (Finalizing a Disc).42Language Codes.43Area Codes.43Controlling Your TV with the Supplied.44Remote Control.44Troubleshooting.45-46Specifications.47

## Introduction

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

This manual provides information on the operation and maintenance of your recorder. Should the unit require service, contact an authorized service location.

#### About the ∅ Symbol Display

" Ø " may appear on your TV display during operation and indicates that the function explained in this owner's manual is not available on that specific media.

#### Symbol Used in this Manual

#### Note:

Indicates special notes and operating features.

#### Tip:

Indicates tips and hints for making the task easier.

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

DVD ALL All DVD discs listed below.

-RWvR DVD-RW with VR recording mode

-RWVideo DVD-RW with Video recording mode

+RW DVD+RW disc

-R DVD-R disc

+R DVD+R disc

**DVD** DVD-Video disc

VCD Video CDs

ACD Audio CDs

**DivX** DivX files

MP3 files

WMA WMA files

JPEG files

#### **Notes on Discs**

#### **Handling Discs**

Do not touch the playback side of the disc. Hold the disc by the edges so that fingerprints do not get on the surface. Never stick paper or tape on the disc.



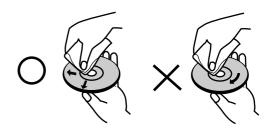


#### **Storing Discs**

After playing, store the disc in its case. Do not expose the disc to direct sunlight or sources of heat and never leave it in a parked car exposed to direct sunlight.

#### **Cleaning Discs**

Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center out.



Do not use strong solvents such as alcohol, benzine, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.

#### **Moisture Condensation**

Never operate this product immediately after moving it from a cold location to a warm location. Leave it for two or three hours without operating it. If you use this product in such a situation, it may damage discs and internal parts.

#### Recordable and Playable Discs



#### DVD-RW (Digital Video Disc - ReWritable):

- DVD-RW discs can be formatted for VR mode recording or Video mode recording.
- These Discs can be recorded on repeatedly. Recordings can be erased, then you can record again
  on the same Disc.

#### [VR mode]

- Recordings can be extensively edited
- Playable only on VR mode compatible players (after finalization)

#### [Video mode]

- Playable on regular DVD players (after finalization)
- Limited editing features



#### **DVD-R (Digital Video Disc - Recordable)**

- These Discs can be recorded only once. After you finalize a DVD-R, you cannot record on it or edit it.
- DVD-R discs can be only formatted to Video mode.
- Playable on regular DVD players (after finalization)
- Limited editing features



#### DVD+RW (Digital Video Disc + ReWritable)

- These Discs can be recorded on repeatedly. Recordings can be erased, then you can record again on the same Disc.
- Playable on DVD+RW compatible players (automatically finalization)
- The edited contents are playable on DVD+RW compatible players only after finalization
- Recordings can be edited the title/chapter



#### DVD+R (Digital Video Disc + Recordable)

- These Discs can be recorded only once. After you finalize a DVD+R, you cannot record on it or edit it any more.
- Playable on DVD+R compatible players (after finalization)
- Any edited contents are not be compatible on DVD+R compatible players. (Hide, chapter combine, added chapter mark, etc.)
- Limited title/chapter editing features.

#### Recommended recordable DVD discs

DVD-R	DVD+R	DVD-RW	DVD+RW
Mitsubishi (8x, 16x)	Mitsubishi (8x, 16x)	Mitsubishi (2x, 4x)	Mitsubishi (2.4, 4x)
Verbatim (8x, 16x)	Verbatim (8x, 16x)	Victor (4x)	Verbatim (4x)
-	-	Maxell (4x)	Philips (4x)

**Note:** If a DVD-RW/DVD+RW discs is recorded using a personal computer or other DVD recorder, you cannot format the disc using this recorder. So if you want to use the disc on this recorder, you must format the disc using the original recorder.

#### **Playable Discs**



DVD (8 cm / 12 cm disc)

Discs such as movies that can be purchased or rented



Video CD (VCD) (8 cm / 12 cm disc)

VIDEO CDs or CD-Rs/CD-RWs in VIDEO CD/Super VIDEO CD format



Audio CD (8 cm / 12 cm disc)

Music CDs or CD-Rs/CD-RWs in music CD format that can be purchased



CD-R/CD-RW (8 cm / 12 cm disc)

CD-R/CD-RW discs that contain audio titles, DivX, MP3, WMA, or JPEG files.

#### Notes:

- Depending on the conditions of the recording equipment or the CD-R/RW (or DVD±R/RW) disc itself, some CD-R/RW (or DVD±R/RW) discs cannot be played on the unit.
- Do not attach any seal or label to either side (the labeled side or the recorded side) of a disc.
- Do not use irregularly shaped CDs (e.g., heart-shaped or octagonal). Doing so may result in malfunctions.
- Depending on the recording software & the finalization, some recorded discs (CD-R/RW or DVD±R/RW) may not be playable.
- DVD-R/RW, DVD+R/RW and CD-R/RW discs recorded using a personal computer or a DVD or CD Recorder may not play if the disc is damaged or dirty, or if there is dirt or condensation on the Recorder's lens.
- If you record a disc using a personal computer, even if it is recorded in a compatible format, there are cases in which it may not play because of the settings of the application software used to create the disc. (Check with the software publisher for more detailed information.)
- This recorder requires discs and recordings to meet certain technical standards in order to achieve optimal playback quality. Pre-recorded DVDs are automatically set to these standards. There are many different types of recordable disc formats (including CD-R containing MP3 or WMA files) and these require certain preexisting conditions (see above) to ensure compatible playback.
- Customers should note that permission is required in order to download MP3 / WMA files and music from the Internet. Our company has no right to grant such permission. Permission should always be sought from the copyright owner.

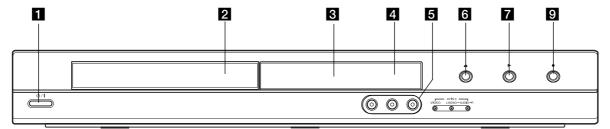
### **Regional Code**

This unit has a regional code printed on the rear of the unit. This unit can play only DVD discs labeled same as the rear of the unit or "ALL".

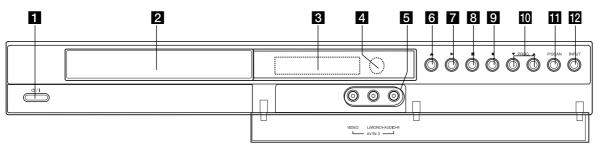
#### **Notes on Regional Codes**

- Most DVD discs have a globe with one or more numbers in it clearly visible on the cover. This number must match your unit's regional code or the disc cannot play.
- If you try to play a DVD with a different regional code from the unit, the message "Incorrect region code. Can't play back" appears on the TV screen.

#### **Front Panel**



**DR275** 



**DR265** 

- 1  $\circlearrowleft$  / I (POWER button) Switches the recorder ON or OFF.
- 2 Disc Tray Insert a disc here.
- 3 Display window

Shows the current status of the recorder.

**REC:** The recorder is recording.

**TV:** Indicates when the recorder is in TV tuner mode.

①: Indicates when the recorder is in timer recording or a timer recording is programmed.

888: Shows the current status of the recorder (clock, program number, etc).

4 Remote Sensor

Point the recorder remote control here.

AV IN 3 (VIDEO IN/AUDIO IN (Left/Right))

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

Opens or closes the disc tray.

**7** ► (PLAY)

Starts playback.

**8** ■ (STOP) (DR265)

Stops playback or recording.

9 ● (REC)

Starts recording. Press repeatedly to set the recording time.

10 PROG. (▼/▲) (DR265)

Scans up or down through memorized channels.

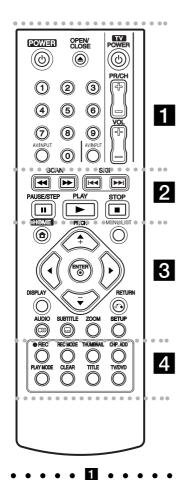
**11** PROGRESSIVE SCAN (DR265)

Switches the progressive mode ON or OFF.

12 IN PUT (DR265)

Changes the input to use for recording (Tuner, AV1-3).

#### **Remote Control**



**POWER:** Switches the recorder ON or OFF.

**OPEN/CLOSE (△):** Opens and closes the disc tray.

**AV/INPUT:** Changes the input to use for recording (Tuner, AV1-3).

**0-9 numerical buttons:** Selects numbered options in a menu. **TV Control Buttons:** See page

44.

• • • • • 2 • • • •

**SCAN** (◀◀ / ▶▶): Search backward or forward.

**SKIP** (I◄◄ / ▶►I): Go to next or previous chapter or track.

**PAUSE/STEP (II)**: Pause playback or recording temporarily.

PLAY (►): Starts playback. STOP (■): Stops playback or recording.

**HOME:** Accesses or removes the HOME menu.

**MENU/LIST:** Accesses menu on a DVD disc. Switches between Title List-Original and Title List-Playlist menu.

√ / ► / ▲ / ▼ (left/right/up/down):
Selects an option in the menu.

**ENTER** (**⊙**): Acknowledges menu selection.

**PR/CH (+/-):** Scans up or down through memorized channels.

**DISPLAY:** Accesses On-Screen Display.

**RETURN** (**(^)**): Removes the menu.

**AUDIO** (**):** Selects an audio language or audio channel.

**SUBTITLE** ((...): Selects a subtitle language.

**ZOOM:** Enlarges video image. **SETUP:** Accesses or removes the

Setup menu.

• • • • • • • • • • • • •

**REC** (●): Starts recording.

**REC MODE:** Selects the recording mode.

**THUMBNAIL:** Selects a thumbnail picture.

**CHP. ADD:** Inserts a chapter marker when playing/recording.

**PLAY MODE:** Selects a play mode.

**CLEAR:** Removes a mark on the Marker Search menu.

**TITLE:** Displays the disc's Title menu, if available.

TV/DVD: To view channels selected by the recorder tuner or by the TV tuner.

### **Remote Control Operation**

Point the Remote Control at the remote sensor and press the buttons.

#### Caution

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

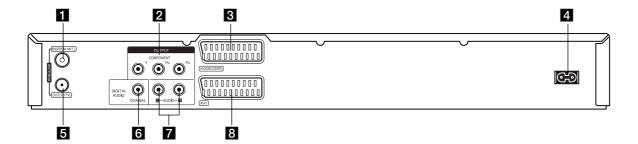
#### **Remote Control Battery Installation**



Remove the battery cover on the rear of the Remote Control, and insert two R03 (size AAA) batteries with • and • matched correctly.

## **Hookup and Settings**

#### **Rear Panel**



1 ANTENNA IN

Connect the antenna to this terminal.

- 2 COMPONENT OUTPUT (Y PB PR)
  Connect to a TV with Y PB PR inputs.
- 3 AV 2 (DECODER)

  Connect the audio/video output of an external source (Pay-TV decoder, Set Top Box, VCR, etc.).
- **4 AC Power Cord** Plug into the power source.
- 5 ANTENNA OUT
  Passes the signal from the ANTENNA IN jack to your TV/monitor.

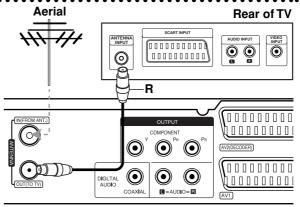
- 6 COAXIAL (Digital audio output)
  Connect to digital (coaxial) audio equipment.
- **AUDIO OUTPUT (Left/Right)**Connect to a TV with audio inputs.
- 8 AV 1 (AUDIO/VIDEO) Connect to a TV with SCART jack.

### Connecting to the antenna

Remove the antenna cable plug from your TV set and insert it into the antenna socket at the back of the recorder. Plug one end of the antenna cable into the TV socket on the recorder and the other end into the antenna input socket on your TV set.

#### RF coaxial connection

Connect the ANTENNA OUT jack on the recorder to the antenna input jack on the TV using the 75-ohm Coaxial Cable supplied (R). The ANTENNA OUT jack passes the signal through from the ANTENNA IN jack.



Rear of the recorder

#### **Connections to Your TV**

- Make one of the following connections, depending on the capabilities of your existing equipment.
- When using the COMPONENT OUTPUT jacks, set the Video Output Format option in the setup menu to YPBPR. When using the SCART jack, set the Video Output Format option in the setup menu to RGB.

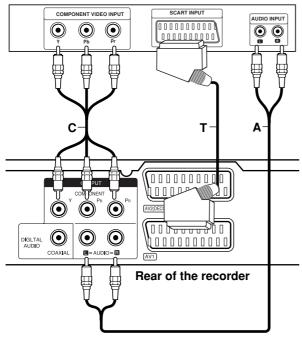
#### Tips

- Depending on your TV and other equipment you wish to connect, there are various ways you could connect the recorder. Use only one of the connections described below.
- Please refer to the manuals of your TV, VCR, Stereo System or other devices as necessary to make the best connections.

#### Caution

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

#### Rear of TV



#### **SCART** connection

Connect the AV1 scart jack on the recorder to the corresponding in jacks on the TV using the scart cable (T)

#### Audio (Left/Right) Connection

Connect the left and right AUDIO OUTPUT jacks of the recorder to the audio left and right IN jacks on the TV using the audio cables (A). Do not connect the recorder's AUDIO OUTPUT jack to the phono in jack (record deck) of your audio system.

#### **Component Video connection**

Connect the COMPONENT OUTPUT jacks on the recorder to the corresponding input jacks on the TV using an Y PB PR cable (C).

If your television is a high-definition or "digital ready" television, you may take advantage of the recorder's progressive scan output for the highest video resolution possible. If your TV does not accept the Progressive Scan format, the picture will appear scrambled if you try Progressive Scan on the recorder.

• Set the Progressive Scan to [ON] on the setup menu for progressive signal, see page 17.

#### Caution

Once the setting for Progressive Scan output is entered, an image will only be visible on a Progressive Scan compatible TV or monitor. If you set Progressive Scan to [ON] in error, you must reset the recorder. First, remove the disc in the recorder. Next, press STOP (

) and hold it for five seconds before releasing it. The video output will be restored to the standard setting, and a picture will once again be visible on a conventional analog TV or monitor.

#### **Connecting to an Amplifier**

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

Connect the Left and Right AUDIO OUTPUT jacks on the recorder to the audio left and right in jacks on your amplifier, receiver, or stereo system, using the audio cables (A).

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

- Connect one of the recorder's DIGITAL AUDIO OUTPUT jacks (COAXIAL X) to the corresponding in jack on your amplifier. Use an optional digital (coaxial X) audio cable.
- You will need to activate the recorder's digital output. (See "Audio Settings" on page 18).

#### **Digital Multi-channel sound**

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

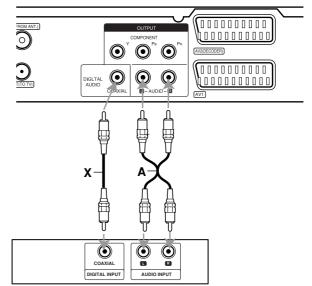
#### Caution:

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

#### Notes:

- If the audio format of the digital output does not match the capabilities of your receiver, the receiver will produce a strong, distorted sound or no sound at all.
- Six Channel Digital Surround Sound via digital connection can only be obtained if your receiver is equipped with a Digital Multi-channel decoder.
- To see the audio format of the current DVD in the on-screen display, press AUDIO.
- This recorder does not perform internal (2 channel) decoding of a DTS sound track. To enjoy DTS multi channel surround, you must connect this recorder to a DTS compatible receiver via one of this recorder's digital audio outputs.

#### Rear of the recorder



Amplifier (Receiver)

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

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

## Accessory Audio/Video (A/V) Connections

#### Connecting a PAY-TV/Canal Plus Decoder

You can watch or record PAY-TV/Canal Plus programmes if you connect a decoder (not supplied) to the recorder. Disconnect the recorder's mains lead from the mains when connecting the decoder.

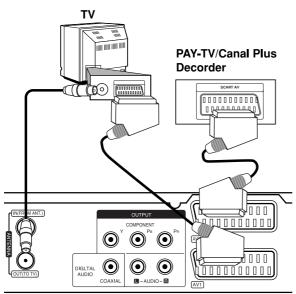
To watch or record PAY-TV/Canal Plus programmes, set [AV2 Connection] option to [Decoder] (see page 17) and set the program's [Decoder On/Off] option to [On] on the Setup menu (page 16).

#### Tin

You do not need to turn on the recorder to view the signals from the connected tuner on your TV.

#### Note:

If you disconnect the recorder's mains lead, you will not be able to view the signals from the connected decoder.

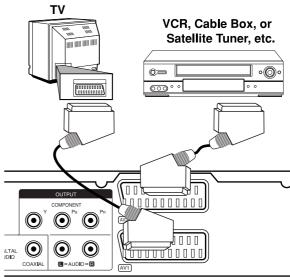


Rear of the recorder

#### Connecting to the AV2 DECODER jack

Connect a VCR or similar recording device to the AV2 DECODER jack of this recorder.

To watch or record the source from AV2 DECODER jack, set [AV2 Connection] option to [Other Device] (see page 17).



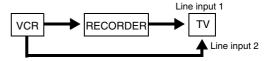
Rear of the recorder

#### Tip

You do not need to turn on the recorder to view the signals from the connected tuner on your TV.

#### Notes:

- Pictures containing copy protection signals that prohibit any copying cannot be recorded.
- If you pass the recorder signals via the VCR, you
  may not receive a clear image on your TV screen.
   Be sure to connect your VCR to the recorder and
  your TV in the order shown below. To watch video
  tapes, watch the tapes through a second line input
  on your TV.

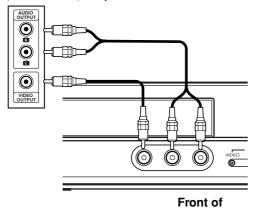


- When you record to a VCR from this recorder, do not switch the input source to TV by pressing the TV/DVD button on the remote.
- If you are using a B Sky B tuner, be sure to connect the tuner's VCR SCART jack to the AV2 DECODER jack.
- If you disconnect the recorder's mains lead, you will not be able to view the signals from the connected VCR or tuner.

#### Connecting to the AV IN 3 Jacks

Connect the input jacks (AV IN 3) on the recorder to the audio/video out jacks on your accessory component, using audio/video cables.

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



the recorder

(13)

#### **Auto Set Up**

After the POWER is pressed for the first time to turn on the unit or resetting the unit, the Initial Setup Wizard function sets the language, clock and tuner channels automatically.

 Select a language for the Setup menu and onscreen display. Use ▲ / ▼ to select a language then press ENTER.



2. Please check your antenna connections. Press ENTER to move next step.



 Use ▲ / ▼ / ▼ / ► to select a country and audio system then press ENTER while [Start] option is selected.

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





4. Enter the necessary information for date and time.



- ◀ / ► (left/right): Moves the cursor to the previous or next column.
- ▲ / ▼ (up/down): Changes the setting at the current cursor position.

Press ENTER to confirm your setting.

Press ENTER while [Close] is highlighted to finish setup.



#### **Using the Home Menu**

From the Home Menu screen you can access all the Media for playback and recording of the recorder.

- Press HOME to display the Home Menu screen.
   The unit will be in TV viewing mode always when the Home menu appears.
- Use ◀ / ▶ buttons to select a main option you want. Sub options appears.
- Use ▲ / ▼ and ENTER buttons to select the sub option you want.



4. To exit the HOME menu, press HOME.

#### Setup

• Start: Displays Setup menu.

#### TΝ

• Auto Ch. Scan: See page 15.

• PR Edit: See page 16.

• Timer Record: See page 33.

#### Movie

- DISC:
  - Displays Title List menu for recordable disc (page 35)
  - Displays Movie List menu for DivX disc. (page 26)
  - Plays back Video CD or DVD-Video disc (page 23-25).

Photo (See page 28-29)

• DISC: Displays Photo List menu for disc.

Music (See page 27)

• **DISC:** Displays Music List menu for disc.

#### Easy Menu

- Disc Manager: Displays the Disc Settings menu. (See page 20-21)
- Rec. Mode: Displays the menu to select the record mode. (See page 19)

#### **Initial Settings**

In this menu system, there are several ways to customize the settings provided. Most menus consist of three levels to set up the options, but some require greater depth for the variety of settings.

#### **General Operation**

- 1. Press HOME and select [Setup] option.
- Select [Start] option then press ENTER. The Setup menu appears.



- 3. Use ▲ / ▼ to select the desired option.
- While the desired item is selected, press ▶ to move to the second level.
- 5. Use ▲ / ▼ to select the second desired option.
- 6. Press ▶ to move to the third level.
- Use ▲ / ▼ to select the desired setting then press ENTER to confirm your selection.
   Some items require additional steps.
- 8. Press RETURN (か) repeatedly to exit the Setup menu.

#### Note:

Press ◀ to go back to the previous level.

#### **General Settings**

#### **Auto Programming**

This recorder is equipped with a frequency synthesized tuner capable of receiving up to 88 TV channels.

#### Preparation:

 Connect the recorder to the desired type of antenna, as shown in Connecting to the antenna on page 9.



- 1. Select the [Auto Programming] option.
- Press ► to move to the third level. [Country] option is highlighted.
- 3. Use ▲ / ▼ to select a country then press ►. If your country is not listed, select [Others].
- 4. Use ▲ / ▼ to select the audio system then press
   ▶. The [Start] icon is highlighted.
- 5. Press ENTER to begin the channel search.
  The tuner will automatically cycle through all available channels in the area and place them in the tuner's memory.

#### Note:

You can change the audio system of each program with the Program Edit option in the setup menu when the Auto Programming with the selected audio system is completed (See "Program Edit", page 16.).

#### **Program Edit**

You can edit a channel manually (add, delete, name, move, etc.).

- 1. Select [Program Edit] option then press ▶.
- 2. Press ENTER while [Edit] is selected. The Program List menu appears.



- Use ▲ / ▼ to select a PR number then press ENTER.
- Use ▲ / ▼ to select the program option then press ENTER.
  - [Program Edit] Sets the channel manually. See "Program Edit" on the bottom.
  - [Station Rename] Changes the station name.
     The display for entering characters appears.
     To enter characters, see page 39.
     Names can be up to 5 characters long.
  - [Move] Sorts the programme positions on the Program List. Press ▲ / ▼ to move the selected programme position to a new location.
  - [Delete] Disables a programme position you do not need.
  - [Decoder On/Off] Sets the channels for the decoder. You need this setting to watch or record PAY-TV/Canal Plus programmes.
     Press ENTER so [Decoder] appears on the display. Press ENTER again to turn off the setting.
- 5. Press RETURN (5) repeatedly to exit Program List menu.

#### **Program Edit**

You can perform a search to select and store TV channels manually.

When you select [Program Edit] in step 4 above, the display for setting channels appears.

Use ◀ / ▶ to select the item and press ▲ / ▼ to change the setting.



- [PR] indicates the selected programme position.
- [Seek] Searches for a channel automatically.
   Searching stops when the recorder tunes in a channel.
- [Ch.] Changes the channel number.

- [MFT] Fine tunes the channel to obtain a clearer picture.
- [Audio] Changes the audio system (BG, I or DK).
- 2. Choose OK then press ENTER to confirm the setting and returns to the Program List menu.

#### **AV1 Decoder**

Sets the AV1 AUDIO/VIDEO jack for inputting encoded video signals.

- Press AV/INPUT while the [Decoder On/Off] option is highlighted.
- 2. Press ENTER so [Decoder] appears on the display. Press ENTER again to turn off the setting.
  - Off: Inputs the signals from the AV1 scart jack.
     Normally select this.
  - On: The encoded video signal input from the AV1 scart jack is output to the AV2 DECODER jack for decoding.

The decoded signal is then input back through the AV2 DECODER jack so you can record or view PAY-TV/Canal Plus programmes.

#### **Clock Set**

- 1. Select [Clock set] option then press ▶.
- 2. Enter the necessary information for date and time.
  - ◄ / ► (left/right): Moves the cursor to the previous or next column.
  - ▲ / ▼ (up/down): Changes the setting at the current cursor position.
- 3. Press ENTER to confirm your setting.

#### **TV Aspect**

Selects the aspect ratio of the connected TV (4:3 standard or wide).

- [4:3 Letter Box] Select this when connecting to a 4:3 screen TV. Displays a wide picture with bands on the upper and lower portions of the screen.
- [4:3 Pan Scan] Select this when connecting to a 4:3 screen TV. Automatically displays a wide picture on the entire screen and cuts off the portions that do not fit.
- [16:9 Wide] Select this when connecting to a widescreen TV or TV with a wide mode function.

#### **General Settings (Continued)**

#### **Progressive Scan**

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

If you are using the COMPONENT OUTPUT jacks, but are connecting the recorder to a standard (analog) television, set Progressive Scan to [OFF]. If you are using the COMPONENT OUTPUT jacks for connection to a TV or monitor that is compatible with a progressive scan signal, set Progressive Scan to [ON].

#### Note:

Progressive Scan will be disable in the setup menu when the Video Output Format in the setup menu is set to RGB.

#### Caution

Once the setting for Progressive Scan output is entered, an image will only be visible on a Progressive Scan compatible TV or monitor. If you set Progressive Scan to [ON] in error, you must reset the recorder. First, remove the disc in the recorder. Next, press STOP (

) and hold it for five seconds before releasing it. The video output will be restored to the standard setting, and a picture will once again be visible on a conventional analog TV or monitor.

#### **AV2 Connection**

You can connect a decoder or other device to the AV2 DECODER socket on the back.

- [Decoder] Select [Decoder] if you connect the recorder's AV2 DECODER jack to a PAY-TV or Canal Plus decoder.
- [Other Device] Select [Other Device] if you connect the recorder's AV2 DECODER jack to a VCR or similar recording device.

#### **Video Output Format**

Select the Video output format option according to the connection type of this unit

- [YPbPr] When your TV is connected with the COMPONENT OUTPUT jack on this unit.
- [RGB] When your TV is connected with the SCART(RGB signal) jack on this unit.

#### **Power Save Mode**

You can set up the unit into an economic power save mode. Nothing is displayed in the display window when the unit is turned off.

- [OFF] Power Save Mode is not active.
- [ON] Power Save Mode is active.

#### Notes.

- The encoded television signals (CANAL+ or PREMIERE) are not decoded in the Power Save Mode.
- The Power Save Mode is not available in the standby mode for the timer recording and when power off of the unit after receiving the encoded television signals (CANAL+ or PREMIERE).

#### **Factory Set**

If you need to, you can reset the Recorder to all its factory settings. Select "ENTER" icon then press ENTER and auto setup menu will appear, see page 14.

#### Note:

Some options can not be reset. (Rating, Password, and Area Code)

#### Language Settings



#### **Display Menu**

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

#### Disc Menu/Audio/Subtitle

- [Original] Refers to the original language in which the disc was recorded.
- [Others] To select another language, press number buttons then ENTER to enter the corresponding 4-digit number according to the language code list in the reference chapter (see page 43). If you make a mistake while entering number, press CLEAR repeatedly to delete numbers one by one then correct it.
- [OFF] (for Disc Subtitle) : Turn off Subtitle.

#### **Audio Settings**

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



#### Dolby Digital / DTS / MPEG

- [Bitstream]: Select "Bitstream" if you connect the recorder's DIGITAL AUDIO OUT jack to an amplifier or other equipment with a Dolby Digital, DTS or MPEG decoder.
- [PCM] (for Dolby Digital / MPEG): Select when connected to a two-channel digital stereo amplifier. DVDs encoded in Dolby Digital or MPEG will be automatically downmixed to two-channel PCM audio.
- [Off] (for DTS): If you select "Off", the DTS signal is not output through the DIGITAL AUDIO OUT jack.

#### **Sampling Frequency**

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

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

#### DRC (Dynamic Range Control)

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

#### **Lock (Parental Control) Settings**



#### Rating

Blocks playback of rated DVDs based on their content. Not all discs are rated.

- 1. Select [Rating] option then press ▶.
- To access the Rating, Password and Area Code features, you must input the 4-digit security code you created.

If you have not yet entered a security code you are prompted to do so. Input a 4-digit code. Enter it again to verify. If you make a mistake while entering number, press CLEAR repeatedly to delete numbers one by one then correct it.

3. Select a rating using the ▲ / ▼ buttons.
[1] - [8]: Rating one (1) has the most restrictions and rating eight (8) is the least restrictive.

[No Limit]: If you select [No Limit], parental control is not active and the disc plays in full.

4. Press ENTER to confirm your rating selection.

#### Note

If you set a rating for the recorder, all disc scenes with the same rating or lower are played. Higher rated scenes are not played unless an alternate scene is available on the disc. The alternative must have the same rating or a lower one. If no suitable alternative is found, playback stops. You must enter the 4-digit password or change the rating level in order to play the disc.

## Lock (Parental Control) Settings (Continues)

#### **Set Password**

- 1. Select [Set Password] option then press ▶.
- Follow step 2 as shown "Rating" on page 18.
   To change the password, select the [Change], press ENTER and input the new password twice after inputing the current password.

   To delete the password, select [Delete] then input the password.

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

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

- 1. Display Setup menu then select an 1 level icon.
- 2. Use the Number buttons to enter the 6-digit number "210499".
- 3. Select [OK] then press ENTER. The 4-digit password is cleared. Enter a new code.

#### **Area Code**

Enter the code of an area whose standards were used to rate the DVD video disc, referring to the list (See "Area Codes", page 43.).

- 1. Select [Area Code] option then press ▶.
- 2. Follow step 2 as shown "Rating" on page 18.
- 3. Select the first character using the ▲ / ▼ buttons.
- Shift the cursor using ▶ buttons and select the second character using ▲ / ▼ buttons.
- 5. Press ENTER to confirm your area code selection.

#### **Recording Settings**



#### **Record Mode Set**

You can set the picture quality for recording; XP (High Quality), SP (Standard Quality), LP (Low Quality), EP (Extend Quality), MLP (Maximum Long Play).

#### **Auto Chapter**

When recording in Video mode, chapter markers are put in specified setting. You can change this interval to 5 minutes or 10 minutes. If you select [None], switch off automatic chapter marking altogether with the [None] setting.

#### **Disc Settings**

#### Initialize

If you load a completely blank disc, the recorder will initialize the disc.

**DVD-R:** The recorder initialize the disc to Video mode. The recording mode will always be Video mode.

**DVD-RW/DVD+RW/DVD+R**: The Initialize menu will appears. Select [OK] then press ENTER. DVD-RW disc is initialized to Video mode.

Also, you can reformat the DVD-RW/DVD+RW from the Setup menu as below.



- 1. Select [Initialize] option then press ▶.
- 2. Press ENTER while [Start] is selected. Format Disc menu appears.
- Use ◀ / ▶ to select a desired mode (VR Mode or Video Mode) then press ENTER. Confirm message will appear. For DVD+RWs, go to step 4.
- Use ◀ / ▶ to select [OK] then press ENTER. It takes a few moments to initialize the disc.

#### Caution

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

#### **Finalize**

Finalizing 'fixes' the recordings in place so that the disc can be played on a regular DVD player or computer equipped with a suitable DVD-ROM drive. Finalizing a Video mode disc creates a menu screen for navigating the disc. This is accessed by pressing MENU/LIST or TITLE.

#### Caution

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



- 1. Select [Finalize] option then press ▶.
- 2. Press ENTER while [Finalize] is selected. Finalize menu appears.
- 3. Select [OK] then press ENTER.

  The recorder starts finalizing the disc.

#### Note

How long finalization takes depends on the type of disc, how much is recorded on the disc, and the number of titles on the disc.

#### Tips

- If you load a DVD-RW that has already been finalized, you can 'Unfinalize' it by choosing Unfinalize from the Finalize menu. After doing this, you can edit and re-record onto the disc.
- You cannot unfinalize a DVD-R and DVD+R disc.
- If [Disc Protect] option is set to [ON], the finalize is not available. To finalize, set [Disc Protect] option to [OFF].

#### **Disc Settings (Continued)**

#### **Disc Label**

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

- The disc name can be up to 32 characters long.
- For discs formatted on a different recorder, you will see only a limited character set.
- 1. Select [Disc Label] option then press ▶.
- Press ENTER while [Edit] is selected. Keyboard menu appears.
   To enter characters, see page 39.

#### **Disc Protect**

When recording in DVD+RW / +R disc or VR mode formatted DVD-RW disc, set to [ON] to prevent accidental recording, editing or deleting of the disc loaded. If you need to unlock the disc to make edits, select [OFF].

#### **PBC**

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

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

#### **DivX Registration Code**

We provide you the DivX® VOD (Video On Demand) registration code that allows you to rent and purchase videos using the DivX® VOD service. For more information, visit www.divx.com/vod.

- 1. Select [About DivX (R)] option then press ▶.
- Press ENTER while [Enter] is selected and the registration code will appear.
- Use the registration code to purchase or rent the videos from Divx® VOD service at www.divx.com/vod. Follow the instructions and download the video onto a disc for playback on this unit.

#### Note:

All the downloaded videos from DivX® VOD can only be played back on this unit.

### General Explanation of On-Screen Display

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

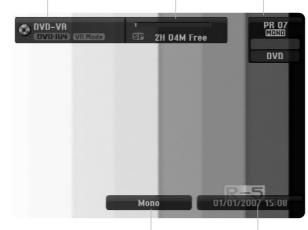
#### Displaying Information While Watching TV

During viewing the TV, press DISPLAY to display/remove the information displayed on-screen.

Indicates channel number, station name, and audio signal (MONO) received by the tuner.

Indicates the record mode, free space, and elapsed time progress bar.

Indicates disc name and format.



Indicates current audio channel.

Indicates current date and time.

#### **Displaying Disc Information on-screen**

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

1. Press DISPLAY once to show current status.



Press DISPLAY once again to show various playback information.

The items displayed differ depending on the disc type or playing status.



- You can select an item by pressing ▲ / ▼ and change or select the setting by pressing ◀ / ►. For details about each item, see the pages in parentheses.
  - [Title]: Current title (or track) number/total number of titles (or tracks) (page 25)
  - [Chapter]: Current chapter number/total number of chapters (page 23)
  - [Time]: Elapsed playing time (page 25)
  - [Audio]: Selected audio language (DVD VIDEO only) or audio channel (page 24)
  - [Subtitle]: Selected subtitle (page 24)
  - [Angle]: Selected angle/total number of angles (page 25)
  - [Sound]: Selected sound mode (page 25)

#### Note:

If no button is pressed for 10 seconds, the on-screen display disappears.

## **Playback**

#### **General Playback Features**

- 1. Load your chosen disc in the tray, with the playback side down.
- 2. Starts playback using HOME menu (see page 14).
- To stop the playback, press STOP (■).
   The unit records the stopped point, depending on the disc. "■■" appears on the screen briefly.
   Press PLAY (►) to resume playback (from the scene point). If you press STOP (■) again or unload the disc ("■" appears on the screen.), the unit will clear the stopped point.
- Press OPEN/CLOSE (♠) to remove the disc.
   Press OPEN/CLOSE (♠) to close disc tray or press POWER (¹), the disc tray closes automatically and unit turns off.

#### Note:

If Parental Control is set and the disc is not within the Rating settings (not authorized), the 4-digit code must be entered and/or the disc must be authorized (see "Rating", on page 18).

Buttons	Operations	Discs
OPEN / CLOSE (♠)	Opens or closes the disc tray.	All Discs
PAUSE/STEP (■■)	During playback, press PAUSE/STEP (■■) to pause playback.	All Discs
	Press PAUSE/STEP (II) repeatedly to play Frame-by-Frame. <i>Tip:</i> You can advance or back up the picture frame-by-frame by pressing ◀ / ▶ repeatedly during PAUSE mode. The picture frame-by-frame in reverse is not available for Video CD.	DVD ALL VCD
SKIP (I◀◀ / ▶▶I)	During playback, press SKIP (I◄◄ or ►►I) to go to the next chapter/track or to return to the beginning of the current chapter/track.  Press SKIP I◄◄ twice briefly to step back to the previous chapter/track.  **Tips:*  • To go directly to any chapter during DVD playback, press DISPLAY twice and press ▲ / ▼ to select the chapter icon. Then, input the chapter number or use ◄ / ►.  • On an Audio CD, to go directly to any track, enter the track number using the numbered buttons (0-9) during playback.	DVD ALL VCD DivX ACD MP3 WMA
SCAN (◀◀ / ▶►)	During playback, press SCAN (◀◀ or ▶►) repeatedly to select the required scan speed. DVD; 5 steps Video CD, DivX, Audio CD; 3 steps	DVD ALL VCD DivX ACD
	While the playback is paused, press SCAN (◀◀ or ▶▶) repeatedly to play in slow motion DVD; 4 steps Video CD; 4 steps (Forward only)	DVD ALL VCD
ZOOM	During playback or pause mode, press ZOOM to enlarge the video image. (x1 size → x2 size → x4 size → x1 size (normal size) You can move through the zoomed picture using ◀ ▶ ▲ ▼ buttons.	DVD ALL VCD

## **General Playback Features (Continued)**

Buttons	Operations	Discs
PLAY MODE	For repeat playback During playback, press PLAY MODE repeatedly to select a desired repeat mode. DVD (Chapter/Title/Off) VR mode DVD-RW (Chapter/Title/All/Off) Video CD, Audio CD (Track/All/Off) MP3/WMA (Track/Folder/Off)  Notes:  On a Video CD with PBC, you must set PBC to [OFF] in the Setup menu to use the Repeat function. See page 21.  If you press SKIP (▶►) once during Repeat Chapter (Track) playback, the repeat playback cancels.	DVD ALL VCD ACD MP3 WMA
	For repeat A-B During playback, press PLAY MODE repeatedly to select point A then press ENTER to select point B. Repeats a sequence from point A (Starting point) to point B (End point). To stop the repeat A-B, press PLAY MODE repeatedly until "OFF" appears on the TV screen.	DVD ALL VCD ACD
TITLE	If the current DVD title has a menu, the title menu appears on the screen. Otherwise, the disc menu may appears.	DVD
MENU/LIST	The disc menu appears on the screen.	DVD
SUBTITLE ( )	During playback, press SUBTITLE then press ◀ / ▶ repeatedly to select a desired subtitle language.	DVD DivX
AUDIO (OD)	Press AUDIO then press ◀ / ▶ repeatedly to hear a different audio language, audio track or encoding method. <i>Note:</i> Some discs feature both Dolby Digital and DTS soundtracks. There is no analog audio output when DTS is selected. To listen to the DTS soundtrack, connect this recorder to a DTS decoder via one of the digital outputs. See page 11 for connection details.	DVD DivX
	Press AUDIO then press ◀ / ▶ repeatedly during playback to hear a different audio channel (STEREO, LEFT or RIGHT).  With DVD-RW discs recorded in VR mode that have both a main and a Bilingual audio channel, you can switch among Main (L+L), Sub (R+R), or Main+sub (L+R).	-RWVR -RWVideo +RW

#### If a menu screen is displayed DVD VCD

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

#### DVD

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

Press TITLE or MENU/LIST to return to the menu screen.

#### VCD

- Use the number buttons to select the track you want to view.
- Press RETURN ( ) to return to the menu screen.
- Menu setting and the exact operating procedures for using the menu may differ depending on the disc. Follow the instructions on the each menu screen. You may also set PBC to [OFF] under Setup menu (see page 21).

#### Moving to another TITLE DVD ALL DivX

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

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

#### Time Search DVD ALL DivX

To start playing at any chosen time on the disc:

- Press DISPLAY twice during playback. The time search box shows the elapsed playing time.
- Press ▲ / ▼ to select the time clock icon and "-:--:-" appears.
- Input the required start time in hours, minutes, and seconds from left to right.
   If you enter the wrong numbers, press ◀ / ▶ to
  - move the under bar (\_) to the wrong number. Then enter the correct numbers.
- Press ENTER to confirm. Playback starts from the selected time.

#### Camera Angle DVD

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

- Press DISPLAY twice during playback. The On-Screen Display appears on the TV screen.
- Use ▲ / ▼ to select the Angle icon in the On-Screen Display.
- Use ◀ / ► to select a desired angle.
   The number of the current angle appears on the TV screen.

#### Tip:

The ANGLE indicator will blink on the TV screen at scenes recorded at different angles to indicate that angle switching is possible.

#### 3D Surround DVD ALL VCD

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

- Press DISPLAY twice during playback. The On-Screen Display appears on the TV screen.
- Use ▲ / ▼ to select the Sound icon in the On-Screen Display.
- Use ◀ / ► to select "3D SUR".
   To turn off the 3D Surround effect, select "NORMAL".

#### Last Condition Memory DVD

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

#### Notes:

- Settings are stored in memory for use any time.
- This recorder does not memorize settings of a disc if you switch off the recorder before commencing to play it.

#### Playing a DivX Movie File

The recorder can play DivX files. Before playing DivX files, read "DivX file requirement" on right.

- 1. Press HOME.
- 2. Select [Movie] option.
- Select a media that contains DivX file(s) then press ENTER.

The [Movie List] menu appears on the TV screen.



- 4. Press ▲ / ▼ to select a folder, and press ENTER twice. A list of files in the folder appears. If you are in a file list and want to return to the Folder list, use the ▲ / ▼ buttons on the remote to highlight and press ENTER.
- If you want to view a particular file, press ▲ / ▼ to highlight a file and press PLAY (►).
   You can use variable playback functions. Refer to pages 23-25.
- 6. Press STOP to stop the playback. The [Movie List] menu appears.

#### Notice for displaying the DivX subtitle

If the subtitle does not display properly, please follow the steps below.

- 1. Press PAUSE/STEP when the subtitle appears.
- Press and hold SUBTITLE about 3 seconds. The language code will appear.
- Press ◀ / ► to select another language code until the subtitle is displayed properly.
- 4. Press PLAY (►) to continue playback.

#### Note:

The DivX subtitle file name has to be identified with the DivX file name to display by this unit.

#### Movie List menu options

- Press ▲ / ▼ to select a folder/file on the [Movie List] menu then press ENTER.
   [Movie List] menu options appear.
   The menu options displayed differ depending on the selected media.
- Press ▲ / ▼ / ◀ / ▶ to select an option, and press ENTER.
  - [Play] Start playback the selected title.
  - [Open] Opens the folder and a list of files in the folder appears

#### DivX file requirement

Available resolution size: 720x576 (W x H) pixel

DivX file extensions: ".avi", ".divx"

Playable DivX subtitle: ".smi", ".srt", ".ssa",

".sub (Micro DVD, Subviewer 1.0/2.0)",

".txt (TM player, DVD subtitle system)"

#### Playable Codec format:

"DIVX3.xx", "DIVX4.xx", "DIVX5.xx"

Playable Audio format: "AC3", "MP3"

- Sampling frequency: within 8 - 48 kHz (MP3)
- Bit rate:

within 8 - 320kbps (MP3)

CD-R Format: ISO 9660 and JOLIET.

DVD±R/RW Format: ISO 9660 (UDF Bridge format)

Maximum Files/Folder: Less than 2000

#### Notes on DivX format

- If the number of the screen frame is over 29.97 frames per second, this unit may not operate normally.
- If there is impossible code to express in the DivX file name, it may be displayed as "\*" mark.
- If the video and audio structure of recorded file is not interleaved, returns to the menu screen.
- This unit does not support the DivX file that is recorded with GMC (Global Motion Compensation).
- This unit does not support the DivX file that contains "rec list".

## Playing an Audio CD or MP3/WMA file

The recorder can play audio CDs and MP3/WMA files. Before playing MP3/WMA files, read "MP3/WMA audio file requirement" on right.

- Press HOME.
   The HOME menu appears.
- 2. Select [Music] option.
- 3. Select a media that contains MP3/WMA or audio title then press ENTER.

The [Music List] menu appears on the TV screen.





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

You can use variable playback functions. Refer to pages 23-25.

#### Tips:

- Press DISPLAY to view ID3-Tag information for the MP3 file. If ID3-Tag information is not present, [ID3-Tag: Not Checked] will appear. If you select a folder, the number of subfolders and number of MP3/WMA files in the folder are displayed. Press DISPLAY again to remove the information screen.
- If you want to move to the upper directory, use the ▲ / ▼ to highlight ➡ and press ENTER.
- 5. To stop playback at any time, press STOP.

#### Audio CD and Music List menu options

 Press ▲ / ▼ to select a folder/file on the [Music List] menu then press ENTER.

The menu options appear.

The menu options displayed differ depending on the selected media.

- Press ▲ / ▼ / ◀ / ▶ to select an option, and press ENTER.
  - [Play] Start playback the selected title.
  - [Random] Start or stop random playback.
  - [Open] Opens the folder and a list of files in the folder appears

#### Random

- Press ▲ / ▼ to select a file then press ENTER.
   The menu options appear.
- Press ▲ / ▼ to select [Random] option then press ENTER.
  - The unit automatically begins random playback and "RANDOM" appears on the menu screen.
- 3. To return to normal playback, select [Random] option again then press ENTER.

#### Tip:

By pressing SKIP ►►I during Random playback, the unit selects another track and resumes Random playback.

#### MP3/WMA audio file requirement

#### File extensions

".mp3", ".wma".

#### Sampling frequency:

within 8 - 48 kHz (MP3), within 32 - 48kHz (WMA)

#### Bit rate

within 8 - 320kbps (MP3), within 32 - 192kbps (WMA)

#### CD-R Format:

ISO 9660 and JOLIET.

#### DVD±R/RW Format:

ISO 9660 (UDF Bridge format)

#### Maximum Files/Folder:

Less than 2000

#### Viewing a JPEG File

The recorder can play JPEG files. Before playing JPEG recordings, read "Photo file requirement" on right.

- Press HOME.
   The HOME menu appears.
- 2. Select [Photo] option.
- Select a media that contains JPEG file then press ENTER.

The [Photo List] menu appears on the TV screen.



4. Use ◀ / ▶ / ▲ / ▼ to select a file, then press ENTER

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

#### Tip:

If you want to move to the upper directory, use the ▲ / ▼ to highlight 🖻 ... and press ENTER.

 Use ▲ / ▼ to select [Full Screen] then press ENTER.

The selected image is displayed in full screen. Depending upon the size and number of JPEG files, it could take a long time for the recorder to read the files.



Press ENTER to appear or disappear this menu during viewing the full screen.

To stop viewing at any time, press STOP. The [Photo List] menu appears.

#### Tip:

If you press RETURN (ふ) while menu screen is displaying, the screen is changed to TV viewing or AV input.

#### Photo List menu options

 Press ▲ / ▼ to select a file on the [Photo List] menu then press ENTER.

The menu options appear.

The menu options displayed differ depending on the selected media.

- Use ▲ / ▼ to select an option then press ENTER to confirm your selection.
  - [Open] Opens the folder and a list of files in the folder appears
  - [Full Screen] Shows the selected file as full screen.
  - [Slide Show] Displays Slide Show menu.

#### Skip Images

While viewing a picture, press SKIP ( $\bowtie \multimap$  once to advance to the next file or return to the previous file.

#### **Rotate Images**

Use ▲ / ▼ while viewing a picture to flip the picture clockwise or counterclockwise.

#### Photo file requirement

#### File extensions

".jpg"

#### Photo size:

Less than 4MB recommended

#### **CD-R Format:**

ISO 9660 and JOLIET.

#### DVD±R/RW Format:

ISO 9660 (UDF Bridge format)

#### Maximum Files/Folder:

Less than 2000

#### Notes on JPEG file

- Progressive and lossless compression JPEG image files are not supported.
- Depending on the size and number of the JPEG files, it may take several minutes to read the contents of the media.

#### **View Slide Shows**

- 1. Select [Slide Show] option on the [Photo List] menu (Refer to "Photo List menu options" on page 28).
- 2 Proce ENTER

The Slide Show menu appears.



3. Use  $\blacktriangleleft$  /  $\blacktriangleright$  /  $\blacktriangleright$  to set the options.

[Speed] option:

Sets the Slide Show speed to [Slow], [Normal], or [Fast].

4. Select the [Start] option then press ENTER to start the Slide Show.

The slide show continues until you press STOP.

5. Press STOP to stop the Slide Show and returns to the Photo List menu.

#### To Pause the Slide Show

- 1. Press PAUSE/STEP (II) to pause slide show.
- 2. When you want to continue slide show, press PLAY (►).

## Recording

#### **About DVD recording**

#### Notes:

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

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

This recorder can play various kinds of DVD discs: pre-recorded DVD-Video discs, DVD-RW, DVD-R, DVD+RW and DVD+R discs.

The disc format for DVD-R, DVD+R, DVD+RW discs is always "Video format"—the same as pre-recorded DVD-Video discs. This means that once finalized, you can play a DVD-R, DVD+R, or DVD+RW in a regular DVD player.

By default, the DVD-RW disc format is Video format, though you can change this to Video Recording (VR) format, if required. (Reinitializing the disc will erase the contents of the disc.)

The recording mode is closely related to the disc format. If the disc format is Video Recording format, then the recording mode is VR mode; if the disc format is Video mode, then the recording mode is Video mode (except for DVD-Video, which is not recordable, and so does not have a recording mode). Within the recording modes (which are fixed for them whole disc) are the record settings. These can be changed as required for each recording and determine the picture quality and how much space the recording will take up on the disc.

#### Notes for recording

- The recording times shown are not exact because the recorder uses variable bit-rate video compression. This means that the exact recording time will depend on the material being recorded.
- When recording a TV broadcast, if the reception is poor or the picture contains interference, the recording times may be shorter.
- If you record still pictures or audio only, the recording time may be longer.
- The displayed times for recording and time remaining may not always add up to exactly the length of the disc.
- The recording time available may decrease if you heavily edit a disc.

- If using a DVD-RW disc, make sure you change the recording format (Video mode or VR mode) before you record anything on the disc. See page 20 (Initialize) for how to do this.
- When using a DVD-R or DVD+R disc, you can keep recording until the disc is full, or until you finalize the disc. Before you start a recording session, check the amount of recording time left on the disc.
- When using a DVD-RW disc in Video mode, recording time available will only increase if you erase the last title recorded on the disc.
- The Delete Title option in the Title List (Original)
  menu only hides the title, it does not actually erase
  the title from the disc and increase the recording
  time available (except for the last recorded title on a
  DVD-RW disc in Video mode).
- Overwrite recording is available using DVD+RW discs
- When using a DVD+R/RW, the recorder will execute the Menu-making operation to update the new title and editing when removing the disc from the recorder or turn off the recorder.

#### Recording time and picture quality

There are four preset recording quality modes:

- XP Highest quality setting, gives about 1 hour of recording time on a DVD (4.7GB).
- SP Default quality, sufficient for most applications, gives about 2 hours of recording time on a DVD (4.7GB).
- LP Slightly lower video quality, gives about 4 hours of recording time on a DVD disc (4.7GB).
- EP Low video quality, gives about 6 hours of recording time on a DVD (4.7GB).
- MLP The longest recording time with the lowest video quality, gives about 11 hours of recording time on a DVD (4.7GB).

#### Notes:

- You may see a fragmented picture or distorted subtitle during playing back the contents recorded in EP and MLP mode.
- If you fully record a recordable DVD disc in MLP mode with only one title, the recordable time is limited as 10 hours.

#### **Restrictions on copying**

Some video material is copy-once protected: If you want to record copy-once protected material to DVD, you must use a VR mode DVD-RW disc compatible with CPRM Ver. 1.1.

- NTSC format signals from the analog input are not recorded correctly with this recorder.
- Video signals in SECAM format (from the built-in TV tuner or from the analog inputs) are recorded in PAL format
- Video that is 'copy-once only' can only be recorded using DVD-RW disc in VR mode with CPRM (see below).

#### What is 'CPRM'?

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

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

#### Copyright

- Recording equipment should be used only for lawful copying and you are advised to check carefully what is lawful copying in the area in which you are making a copy. Copying of copyright material such as films or music is unlawful unless permitted by a legal exception or consented to by the rights owner.
- This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only, unless otherwise authorized by Macrovision corporation. Reverse engineering or disassembly is prohibited.
- 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 625 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 625p DVD RECORDER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.

#### **Basic Recording from a TV**

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

#### Notes:

- You must load a recordable disc for DVD recording.
- This unit can record only a mono audio content from the built-in tuner system.
- Set a recording mode as necessary by pressing REC MODE repeatedly. (XP, SP, LP, EP or MLP)
- 2. Use PR/CH (+/-) buttons to select the TV channel to record.
- Press REC (●) once.
   Recording will start. (The REC indicator lights in the display window.)
  - Recording continues until you press STOP (■) or the disc is full.
  - To record for a fixed length of time, see Instant Timer Recording on right.
- 4. Press STOP (■) to stop recording.

#### To Pause the Recording

- 1. Press PAUSE/STEP (II) to pause recording.
- When you want to continue recording, press PAUSE/STEP (■■).

## To record one TV program while watching another

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

#### **Instant Timer Recording**

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

- Follow steps 1-2 as shown left (Basic Recording from a TV).
- 2. Press REC (●) repeatedly to select the recording time length.



Recording starts after the first press. Each subsequent press increases the recording time within free space.

The recording time is displayed on the TV screen. At the end of the recording, the recorder will stop recording and shut off.

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

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

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

#### To Extend the Recording Time

The recording time can be extended anytime by pressing REC  $(\bullet)$ .

Each subsequent press increases the recording time within free space.

#### Caution

If the recorder is unplugged (or there is a power failure) while the recorder is recording, the recording will be lost.

#### **Timer Recording**

This recorder can be programmed to record up to 16 programs within a period of 1 month. For unattended recording, the timer needs to know the channels to be recorded, the starting and ending time.

#### Note:

If you use a completely blank disc for timer recording, you must format the disc before starting timer recording. (Refer to "Initialize" on page 20.)

- 1. Press HOME and select [TV] option.
- Press ▲ / ▼ to select [Timer Record] option then press ENTER.

The [Timer Record List] menu will appear.

Press ▲ / ▼ to select [NEW] option then press ENTER.

The [Timer Record] menu will appear.



- [PR] Choose a memorized program number, or one of the external inputs from which to record.
- [Date] Choose a date up to 1 month in advance or desired repeat (Monday ~ Friday, or Every Sun~Sat).
- [Start Time] Set the start time.
- [End Time] Set the end time.
- [Mode] Choose a record mode (XP, SP, LP, EP, MLP or AT).

AT (Auto) mode determines how much disc time is available and switches record mode, if necessary, to complete recording the program.

- 4. Enter the necessary information for your timer recording(s).
  - ◀ / ► (left/right) move the cursor left/right
  - ▲ / ▼ (up/down) change the setting at the current cursor position
  - Press RETURN (5) to return to the [Timer Record list].

- Press ENTER, the program will be memorized by the recorder.
  - To check the programming, the Timer Record List will appear.
  - Check field's "Rec. OK" on the Timer Record List indicates that the timer recording is programmed correctly.
- 6. Press RETURN (3) to exit the [Timer Record list].
- Make sure that you load a recordable disc for DVD recording and press POWER to switch your unit to Standby.

#### Notes:

- The clock must be set before setting the timer recording.
- The timer indicator lights in the display window when the recorder is in standby with the timer active. (Nothing is displayed while the [Power Save Mode] is ON.)
- You must press POWER to stop the timer recording.

## **Checking Timer Recording Details**

Programming can be checked whenever the recorder is turned on.

- 1. Press HOME and select [TV] option.
- Press ▲ / ▼ to select [Timer Record] option then press ENTER.

The [Timer Record List] will appear.

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



#### Canceling a Timer Recording

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

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

Press CLEAR and the confirm message will appear. Press ENTER while the [OK] is selected to erase the recording.

#### Stopping a Timer Recording in Progress

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

• Press POWER.

#### **Timer Recording Troubleshooting**

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

- There is no disc loaded.
- A non-recordable disc is loaded.
- [Disc Protect] option is set to [ON] in the Setup menu. (see page 21).
- Power is turned on.
- There are already 99 titles (DVD-RW, DVD-R),
   49 titles (DVD+R, DVD+RW) recorded on the disc.

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

- · A recording is already underway.
- The time you're trying to set has already passed.
- There are already 16 timer programs set.

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

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

If the disc is damaged, the recording may not complete successfully. In this case even though the Check field shows "Rec. OK", it may not be.

## Recording from an External Input

#### **Recording from External Components**

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

- Make sure that the component you want to record from is connected properly to the recorder. See page 12-13.
- 2. Press AV/INPUT repeatedly to select the external input to record from.
  - Tuner: Built-in tuner
  - AV1: AV1 scart jack mounted on back panel
  - AV2: AV2 DECODER scart jack mounted on back panel
  - AV3: AV IN 3 (VIDEO, AUDIO (L/R)) mounted on the front panel
- Select the recording mode as necessary by pressing REC MODE repeatedly. (XP, SP, LP, EP or MLP)
- Press REC (●) once.
   Recording will start. (The REC indicator lights in the display window.)
  - Recording continues until you press STOP (■) or the disc is full.
  - To record for a fixed length of time, see "Instant Timer Recording" on page 32.
- 5. Press STOP (■) to stop recording.

#### Note:

If your source is copy-protected using CopyGuard, you will not be able to record it using this recorder. See Copyright on page 31 for more details.

## **Editing**

#### Title List and Chapter List Menu Overview

Using the Title List menu you can edit video content. The editing features available in the Title List menu depend on whether you are editing video on DVD, and whether you're editing Original content, or a Playlist.

There are two ways to edit VR mode DVD-RW discs. You can directly edit the Original content of the disc, or you can create and edit a Playlist. The Playlist doesn't actually change any of the content on the disc, but just controls how the content is played back.

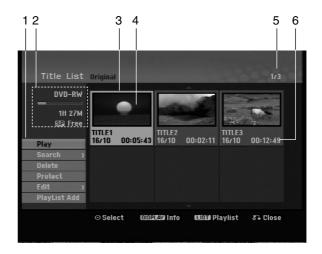
- 1. Press MENU/LIST to display the Title List menu. Playback should be stopped when you do this.
  - You can also access it using HOME menu, select [Movie] option then select [DISC] option and press ENTER.
  - When selecting titles, use the ▲ / ▼ buttons to display the previous/next page if there are more than six titles.
  - If you are editing a VR mode disc, press MENU/LIST to switch between Original and Playlist menu.

On the left side of the screen are the menu options. The main part of the screen shows thumbnails of the titles (or chapter) on the DVD. You can change these thumbnails using the THUMBNAIL button—see Changing Title Thumbnails on page 36.

Press DISPLAY to display the information of selected title on the Title List Original menu.

After selecting a title or chapter on the Title List or Chapter List menu, then press ENTER. The menu options appears on the left side of the menu. Use

- $\blacktriangle$  /  $\blacktriangledown$  to select a option then press ENTER to confirm your selection.
- 2. To exit the Title List menu, press RETURN (か) repeatedly.



- Menu options: To display menu option, select a title or chapter then press ENTER. The options displayed differ depending on the disc type.
  - [Combine] Combines two chapters into one (page 40).
  - [Delete] Deletes the title or chapter. (page 38)
  - [Delete Part] Deletes a part of the Title (page 38).
  - [Divide] Divides a title into two (page 40).
  - [Full Play] Starts playback of the selected title including the hidden chapters.
  - [Hide (Show)] Hides (or Shows) the selected title or chapter. (page 41)
  - [Move] Moves a chapter on the Chapter List-Playlist menu to a position on the menu. (page 41)
  - [Play] Start playback of the selected title or chapter. The hidden titles and chapters on the DVD+R/RW cannot be play back.
  - [Playlist Add] Adds the title or chapter to the Playlist. (page 37)
  - [Protect] Protects accidental recording, editing or deleting of the title. (page 41)
  - [Title Name] Edits the title name. (page 39)
  - [Search]
    - [Chapter]; Displays Chapter List of the Title.
    - [Time]; Search time for you want start point of the title. (page 39)
  - [Title] Displays Title List of the chapter.
- 2. Indicates the disc name, record mode, free space, and elapsed time progress bar.
- 3. Currently selected title.
- 4. Thumbnail
- Shows the selected title number and total number of titles.
- Shows the title name, recorded date, and recording length.

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

#### Titles, Chapters and Parts

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

#### Caution

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

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

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

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

#### -RWvr

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

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

#### Adding Chapter Markers



-RWvr +RW +R

You can create chapters within a title by inserting chapter marks at the desired points.

#### Note:

Chapter markers are inserted at regular intervals automatically. You can change this interval from the Initial Setup menu (see "Auto Chapter" on page 19).

During recording or playing back, at the point you want to start a new chapter, press CHP ADD. A chapter marker icon appears on the TV screen.

#### Changing the Title Thumbnails

C Thumbnail

-RWvr +RW +R

Each title displayed in the Title List menu is represented by a thumbnail picture taken from the start of that title or chapter.

If you prefer, select a different still picture from within a title.

Press THUMBNAIL to make the currently displayed picture the one that appears in the Title List menu. The still picture that you choose appears in both the Original or Playlist menu.

# Making a New Playlist

#### -RWvr

Use this function to add an Original title or chapter to the Playlist. When you do this, the whole title or chapter are put into the Playlist (you can delete bits you don't need later — see Deleting an Original or Playlist title/chapter on page 38)

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

You can add up to 999 chapters to one disc.

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

The menu options appears on the left side of the menu.



 Use ▲ / ▼ to select [Playlist Add] option then press ENTER.



Select [New Playlist] then press ENTER.
 The new title appears in the updated Playlist. All chapters of the title are added to the Playlist.



# Adding Additional Title/Chapters to the Playlist -RWW

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

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

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



 Use ▲ / ▼ to select [Playlist Add] from menu options then press ENTER.



- Choose a Title List-Playlist that is already registered to insert a title or chapter, then press ENTER.
- 4. Repeat steps 1-3 to add additional title or chapter on the Playlist.

You can view the added chapters on the Chapter List-Playlist menu.



5. Press RETURN (ふ) to exit, or MENU/LIST to go back to the Title List-Original menu.

# Deleting an Original or Playlist Title/Chapter

When you erase a title or chapter from the Playlist menu, you only remove it from the Playlist; the title/chapter remains in the Original menu.

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

#### Note:

It may not be possible to delete chapters that are less than 3 seconds long.

- Use ◀ / ▶ / ▲ / ▼ to choose a chapter or title you want to delete on the Title List or Chapter List menu then press ENTER.
  - The menu options appears on the left side of the screen.
- Select [Delete] option from the options on the menu.



- Press ENTER to confirm.
   The confirm message for deleting will appear.
- Use ◀ / ▶ to select [OK] then press ENTER.
   The selected chapter or title is deleted.
   After pressing ENTER, the new, updated menu is displayed.
- Repeat steps 1 4 to continue to delete from the menu.
- 6. Press RETURN ( ) repeatedly to exit the menu.

#### Notes

- When DVD+RW recording, the deleted title's name is changed to 'Deleted Title'.
- If more than two titles are repeatedly deleted, the titles are combined into one.
- When you are deleting a title or chapter, only the last one on DVD+RW increases remaining recording time.

# Deleting a Part -RWVR

You can delete a part which you do not want in the title.

- Use ◀ / ▶ / ▲ / ▼ to choose a title you want to delete on the Title List menu then press ENTER. The options appears on the left side of the menu.
- Select [Delete Part] in the [Edit] option then press ENTER. Edit (Delete Part) menu appears on the TV screen. [Start Point] icon is highlighted.



- Use play, pause step, search and slow-motion to find the starting point.
- 4. Press ENTER at the starting point of the section you want to delete.

'End Point' icon is highlighted.

The part is indicated on the Progress Bar.

- 5. Use play, pause step, search and slow-motion to find the ending point.
- 6. Press ENTER at the ending point of the section you want to delete.
  - You can cancel the selected point, use  $\blacktriangle / \blacktriangledown$  to select [Cancel] icon then press ENTER.
- 7. If you finish to edit, select [Done] icon then press ENTER

The confirm message for deleting will appear.
Use ◀ / ▶ to select [OK] then press ENTER.
The selected part is deleted from the title and Title List menu appears.

#### Note:

It may not be possible to delete parts that are less than 3 seconds long.

# Naming a Title

You can name the titles. The names can be up to 32 characters long.

- Choose the title you want to name on the Title List menu, then press ENTER.
   The menu ontions appears on the left side of the
  - The menu options appears on the left side of the menu.
- Select [Title Name] in the [Edit] option then press ENTER.

Keyboard menu appears.



- Enter a name for the title. Use ◀ / ► / ▲ / ▼ to select a character then press ENTER to confirm your selection.
  - Use MENU/LIST button to change keyboard type.
  - OK: Select to finish.
  - Cancel: Cancels all entered characters.
  - Space: Inserts a space at the cursor position.
  - **Delete:** Deletes the previous character at the cursor position.
  - ◀ / ►: Moves cursor to left or right.

#### Tip:

Remote control buttons for entering a name PLAY (>): Inserts a space at the cursor position.

- **II** (PAUSE/STEP): Deletes the after character at the cursor position.
- (STOP), CLEAR: Deletes the previous character at the cursor position.

Idd / ▶►I: Moves cursor to left or right.

**Numbers (0-9):** Enters the corresponding character at the cursor position.

- 4. Choose OK then press ENTER to fix the name and return to the previous menu screen.
- 5. Press RETURN (3) repeatedly to exit the menu.

#### Notes:

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

### **Time Search**

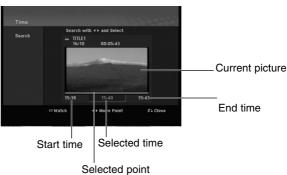
-RWVR -RWVideo +RW -R +R

You can select start point of the title.

- Use ◀ / ▶ / ▲ / ▼ to choose a title on the Title List menu then press ENTER.
   The options appears on the left side of the menu.
- 2. Select [Time] option then press ENTER.

[Search] menu appears on the TV screen.





- Use ◀ / ▶ to find the point you want to start.
   The point increase 1 minute step.
   If you press and hold ◀ / ▶ then the point increase 5 minute step.
- 4. Press ENTER to start selected point.

# **Divide One Titles Into Two**

#### +RW

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

- On the Title List menu, select a title you want to divide then press ENTER.
   The menu options appears on the left side of the screen.
- 2. Select [Divide] option.



Press ENTER.
 Edit (Divide) menu appears.
 [Divide] option is highlighted.

#### Current picture



The first title's thumbnail

The second title's thumbnail

- 4. Use play, pause step, search and slow-motion to find the point you want to divide the title.
- Select [Divide] option then press ENTER at the point.
  - To reset the point, select [Cancel] option then press ENTER. Repeat from step 3.
- Choose [Done] option then press ENTER to fix the dividing point.
  - The title is divided into two new titles. It take up to 4 minutes to divide.

#### Note:

You cannot select dividing point less than 3 seconds.

# Combining Two Chapters Into

One -RWVR +RW +R

Use this function to combine two adjacent chapters into one.

- On the Chapter List menu, select the second chapter of the two chapters you want to combine then press ENTER The menu options appears on the left side of the
  - screen.
- Use ▲ / ▼ to select [Combine] option.
   The combine indicator appears between the two chapters you want to combine.



3. Press ENTER.

#### Notes:

#### This function is not available when;

- There is only one chapter whthin the title.
- The first chapter is selected.

# Moving a Playlist Chapter -RWVR

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

#### Note:

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

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

The menu options appears on the left side of the menu.

Use ▲ / ▼ to select [Move] option from Playlist options then press ENTER.



 Use ◀ / ▶ / ▲ / ▼ to choose the place you want to move the chapter to then press ENTER. After pressing ENTER, the updated menu is displayed.

# Hide a Chapter/Title +RW +R

You can skip playing chapters or titles without deleting from the disc.

- Use ▲ ▼ ◀ ► to choose a chapter or title you want to hide on the Title List or Chapter List menu, then press ENTER.
  - Options appear on the left side of the screen.
- 2. Select [Hide] option.

Example: Title List (DVD+RW)



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

#### Tip:

If you select a hidden chapter or title on the Title List or Chapter List menu, you can 'show' it by choosing [Show] option on the menu. After doing that, you are able to see the chapter or title.

## **Protect a Title**

# +RW +R -RWvR

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

- 1. Press MENU/LIST to display the Title List menu.
- Use ▲ ▼ ◀ ▶ to choose a title you want to protect then press ENTER.
   Options appear on the left side of the screen.
- 3. Select [Protect] from the options.



Press ENTER to confirm.
 The lock mark will appears on the title's thumbnail.

#### Tip:

If you select a title that has already been protected on the Title List menu, you can 'unprotect' it by choosing [Protect] option from the Title List menu options. After doing that, you can edit and delete the title.

# Reference

# **Additional Information**

## Overwriting Recording FRW

To overwrite a new video recording on a previously recorded title, follow these steps. This feature is not available for DVD+Rs, that always record at the end of the Disc.

- Select input source you want to record (TV channel, AV1-3).
- 2. Press MENU/LIST to display the Title List menu.



- Use ▲ ▼ ◀ ► to choose a title you want to overwrite.
- Press REC (●) to start overwrite recording.
   Overwrite recording starts from the start point of
  the title.
- Press STOP (■) to stop the overwrite recording.
   The new title is created and updated menu is displayed.

#### Notes:

- This function is not available for a protected title.
- If you overwrite the longer recording than the current title on the fully recorded disc, the next title is overwritten.
- If next title is protected, the overwriting stops at the starting point of the title.

# Viewing Title List menu displayed on other DVD Recorders or Players

#### +RW +R

You can view the Title List menu displayed on the other DVD player that is capable of playing DVD+RW or DVD+R discs.

1. Insert DVD+R or DVD+RW disc recorded already.

Press TITLE in play or stop mode.
 Title List menu will appear as shown below.

#### Tip:

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



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

# Playing Your Recordings on Other DVD Players (Finalizing a Disc)

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

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

Finalizing a Video mode disc creates a menu screen for navigating the disc. The menu can be accessed by pressing MENU/LIST or TITLE.

To finalize a disc, refer to "Finalize" on page 20.

#### Notes:

- Unfinalized DVD+RW is playable on regular DVD players.
- The edited contents of a DVD+RW disc is compatible on regular DVD players only after finalization
- Any edited contents of the DVD+R disc are not compatible on regular DVD players. (Hide, chapter combine, added chapter mark, etc.)
- How long finalization takes depends on the type of disc, how much is recorded on the disc, and the number of titles on the disc.

# **Language Codes**

Use this list to input your desired language for the following initial settings: Disc Audio, Disc Subtitle, Disc Menu.

Language	Code	Language	Code	Language	Code	Language	Code
Abkhazian	6566	Fiji	7074	Lingala	7678	Singhalese	8373
Afar	6565	Finnish	7073	Lithuanian	7684	Slovak	8375
Afrikaans	6570	French	7082	Macedonian	7775	Slovenian	8376
Albanian	8381	Frisian	7089	Malagasy	7771	Somali	8379
Ameharic	6577	Galician	7176	Malay	7783	Spanish	6983
Arabic	6582	Georgian	7565	Malayalam	7776	Sudanese	8385
Armenian	7289	German	6869	Maltese	7784	Swahili	8387
Assamese	6583	Greek	6976	Maori	7773	Swedish	8386
Aymara	6588	Greenlandic	7576	Marathi	7782	Tagalog	8476
Azerbaijani	6590	Guarani	7178	Moldavian	7779	Tajik	8471
Bashkir	6665	Gujarati	7185	Mongolian	7778	Tamil	8465
Basque	6985	Hausa	7265	Nauru	7865	Tatar	8484
Bengali; Bangla	6678	Hebrew	7387	Nepali	7869	Telugu	8469
Bhutani	6890	Hindi	7273	Norwegian	7879	Thai	8472
Bihari	6672	Hungarian	7285	Oriya	7982	Tibetan	6679
Breton	6682	Icelandic	7383	Panjabi	8065	Tigrinya	8473
Bulgarian	6671	Indonesian	7378	Pashto, Pushto	8083	Tonga	8479
Burmese	7789	Interlingua	7365	Persian	7065	Turkish	8482
Byelorussian	6669	Irish	7165	Polish	8076	Turkmen	8475
Cambodian	7577	Italian	7384	Portuguese	8084	Twi	8487
Catalan	6765	Japanese	7465	Quechua	8185	Ukrainian	8575
Chinese	9072	Javanese	7487	Rhaeto-Romance	8277	Urdu	8582
Corsican	6779	Kannada	7578	Rumanian	8279	Uzbek	8590
Croatian	7282	Kashmiri	7583	Russian	8285	Vietnamese	8673
Czech	6783	Kazakh	7575	Samoan	8377	Volapük	8679
Danish	6865	Kirghiz	7589	Sanskrit	8365	Welsh	6789
Dutch	7876	Korean	7579	Scots Gaelic	7168	Wolof	8779
English	6978	Kurdish	7585	Serbian	8382	Xhosa	8872
Esperanto	6979	Laothian	7679	Serbo-Croatian	8372	Yiddish	7473
Estonian	6984	Latin	7665	Shona	8378	Yoruba	8979
Faroese	7079	Latvian, Lettish	7686	Sindhi	8368	Zulu	9085

# **Area Codes**

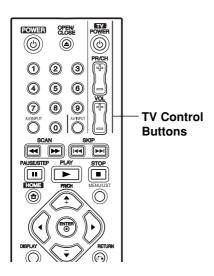
Choose an area code from this list.

Area	Code	Area	Code	Area	Code	Area	Code
Afghanistan	AF	Ethiopia	ET	Malaysia	MY	Saudi Arabia	SA
Argentina	AR	Fiji	FJ	Maldives	MV	Senegal	SN
Australia	AU	Finland	FI	Mexico	MX	Singapore	SG
Austria	AT	France	FR	Monaco	MC	Slovak Republic	SK
Belgium	BE	Germany	DE	Mongolia	MN	Slovenia	SI
Bhutan	BT	Great Britain	GB	Morocco	MA	South Africa	ZA
Bolivia	ВО	Greece	GR	Nepal	NP	South Korea	KR
Brazil	BR	Greenland	GL	Netherlands	NL	Spain	ES
Cambodia	KH	Heard and McDonald Islands	HM	Netherlands Antilles	AN	Sri Lanka	LK
Canada	CA	Hungary	HU	New Zealand	NZ	Sweden	SE
Chile	CL	India	IN	Nigeria	NG	Switzerland	CH
China	CN	Indonesia	ID	Norway	NO	Thailand	TH
Colombia	CO	Israel	IL	Oman	OM	Turkey	TR
Congo	CG	Italy	IT	Pakistan	PK	Uganda	UG
Costa Rica	CR	Jamaica	JM	Panama	PA	Ukraine	UA
Croatia	HR	Japan	JP	Paraguay	PY	United States	US
Czech Republic	CZ	Kenya	KE	Philippines	PH	Uruguay	UY
Denmark	DK	Kuwait	KW	Poland	PL	Uzbekistan	UZ
Ecuador	EC	Libya	LY	Portugal	PT	Vietnam	VN
Egypt	EG	Luxembourg	LU	Romania	RO	Zimbabwe	ZW
El Salvador	SV	-		Russian Federation	RU		

# **Controlling Your TV with the Supplied Remote Control**

You can control the sound level, input source, and power switch of your LG TV with the supplied remote.

You can control your TV using the buttons below.



By pressing	You can
POWER	Turn the TV on or off.
AV/INPUT	Switch the TV's input source between the TV and other input sources.
PR/CH +/-	Scans up or down through memorized channels.
VOL +/-	Adjust the volume of the TV.

### Controlling other TVs with the remote

You can control the sound level, input source, and power switch of non-LG TVs as well. If your TV is listed in the table below, set the appropriate manufacturer code.

- While holding down TV POWER button, press the number buttons to select the manufacturer code for your TV (see the table below).
- 2. Release TV POWER button.

#### Code numbers of controllable TVs

If more than one code number is listed, try entering them one at a time until you find the one that works with your TV.

Manufacturer	Code Number
LG / GoldStar	1 (Default), 2
Zenith	1, 3, 4
Samsung	6, 7
Sony	8, 9
Hitachi	4

#### Notes:

- Depending on your TV, some or all buttons may not function on the TV, even after entering the correct manufacturer code.
- If you enter a new code number, the code number previously entered will be erased.
- When you replace the batteries of the remote, the code number you have set may be reset to the default setting. Set the appropriate code number again.

# **Troubleshooting**

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

Symptom	Cause	Solution	
No power.	The power cord is disconnected.	Plug the power cord into the wall outlet securely.	
No picture.	TV/DVD mode for the recorder is set to TV.	Press TV/DVD on the remote control repeatedly to choose DVD mode. TV indicator disappears in the display window.	
	The TV is not set to receive recorder signal output.	Select the appropriate video input mode on the TV so the picture from the recorder appears on the TV screen.	
	The video cable is not connected securely.	Connect the video cable securely.	
	The connected TV power is turned off.	Turn on the TV.	
No sound.	The equipment connected with the audio cable is not set to receive recorder signal output.	Select the correct input mode on the audio receiver so you can listen to the sound from the recorder.	
	The audio cables are not connected securely.	Connect the audio cable securely.	
	The power of the equipment connected with the audio cable is turned off.	Turn on the equipment connected with the audio cable.	
	The audio connecting cord is damaged.	Replace it with new one.	
The playback picture is poor.	The disc is dirty.	Clean the disc.	
The recorder does not start playback.	No disc is inserted.	Insert a disc. (Check that the disc indicator in the display window is lit.)	
	An unplayable disc is inserted.	Insert a playable disc. (Check the disc type, color system, and regional code.)	
	The disc is placed upside down.	Place the disc with the playback side down.	
	The disc is not placed within the guide.	Place the disc on the disc tray correctly inside the guide.	
	The disc is dirty.	Clean the disc.	
	The Rating level is set.	Cancel the Rating function or change the rating level.	
The picture from the external input is distorted	The video signal from the external component is copy-protected.	You cannot connect via this recorder. Connect the component directly to your TV.	
Some channels are skipped over when using PR/CH (+/-).	Those channels are not stored in the recorder.	Restore channels. See "Program Edit" on page 16.	
The picture or sound of broadcasting channel is weak or missing.	Antenna or cables are loose.	Tighten connections or replace cable.	

Symptom	Cause	Solution		
Cannot play a disc	The disc was recorded in Video mode.	Finalize the disc. (page 20)		
recorded using this recorder on another player.	Some players will not play even a finalized disc recorded in Video mode.	No solution.		
	The disc was recorded in VR mode,	The other player must be RW compatible in order to play it.		
	Discs recorded with copy-once material cannot be played on other players.	No solution.		
Cannot record or did not record successfully.	The remaining blank space on the disc is insufficient.	Use another disc.		
	The source you are trying to record is copy protected.	You cannot record the source.		
	When setting the recording channel, the channel is tuned on the TV's own tuner.	Select the channel on the recorder's built-in TV tuner.		
	When recording to a Video mode disc, programs that are copy-once protected cannot be recorded.	Use a VR mode formatted disc for copy-once material.		
Timer recording is not possible.	Clock in recorder is not set to correct time.	Set clock to correct time.     See "Clock Set" on page 16.		
	Timer has been programmed incorrectly.	Reprogram Timer. See "Timer Recording" on page 33.		
	Timer record indicator light does not appear after programming timer.	Reprogram Timer.		
The remote control does not work properly.	The remote control is not pointed at the remote sensor of the recorder.	Point the remote control at the remote sensor of the recorder.		
	The remote control is too far from the recorder.	Operate the remote control within 7 m.		
	There is an obstacle in the path of the remote control and the recorder.	Remove the obstacle.		
	The batteries in the remote control are exhausted.	Replace the batteries with new ones.		

# Resetting the recorder

# If you observe any of the following symptoms...

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

### ...you can reset the recorder as follows:

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

# **Specifications**

#### General

Power requirements
Power consumption
Dimensions (approx.)
Net weight (approx.)
Operating temperature
Operating humidity
Television system
Recording format

AC 200-240V, 50/60 Hz
18W
430 X 54 X 275 mm (w x h x d) without foot
2.6 kg
5°C to 35°C
5 % to 90 %
PAL I, B/G, I/I, SECAM D/K, K1 color system
PAL

# Recording

Recording format
Recordable media
Recordable time

DVD Video Recording, DVD-VIDEO
DVD-ReWritable, DVD-Recordable, DVD+ReWritable, DVD+Recordable
DVD (4.7GB): Approx. 1 hour (XP mode), 2 hours (SP mode),
4 hours (LP mode), 6 hours (EP mode), 11 hours (MLP mode)

# Video recording format

Sampling frequency 27MHz
Compression format MPEG 2 (VBR support)

Audio recording format

Sampling frequency 48kHz
Compression format Dolby Digital

#### **Playback**

Frequency response

DVD (PCM 48 kHz): 8 Hz to 22 kHz, CD: 8 Hz to 20 kHz
DVD (PCM 96 kHz): 8 Hz to 44 kHz

Signal-to-noise ratio
Harmonic distortion
Dynamic range

DVD (PCM 48 kHz): 8 Hz to 22 kHz, CD: 8 Hz to 20 kHz
DVD (PCM 96 kHz): 8 Hz to 44 kHz

More than 100 dB (AUDIO OUT connector)

Less than 0.008% (AUDIO OUT connector)

More than 95 dB (AUDIO OUT connector)

### Inputs

ANTENNA IN
VIDEO IN
AUDIO IN
AUDIO IN
Antenna input, 75 ohms
1.0 Vp-p 75 ohms, sync negative, RCA jack x 1 / SCART x 2
2.0 Vrms more than 47 kohms, RCA jack (L, R) x 1 / SCART x 2

#### **Outputs**

VIDEO OUT SCART x 2 (Y) 1.0 V (p-p), 75  $\Omega$ , sync negative, RCA jack x 1 (PB)/(PR) 0.7 V (p-p), 75  $\Omega$ , RCA jack x 2

Audio output (digital audio) 0.5 V (p-p), 75  $\Omega$ , RCA jack x 1 2.0 Vrms (1 KHz, 0 dB), 600  $\Omega$ , RCA jack (L, R) x 1 / SCART x 2

## Accessory:

• Design and specifications are subject to change without notice.



P/NO: MFL36929077