LG

DVD PLAYER/ VIDEO CASSETTE RECORDER

OWNER'S MANUAL

MODEL : DC-2002W

DVD VIDEO™ **VHS** PAL **disc** COMPACT DIGITAL VIDEO **disc** COMPACT DIGITAL AUDIO

MP3 **dts** DIGITAL OUT **DD DOLBY** DIGITAL **3D** Surround Sound

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

WARNING

RISK OF ELECTRIC SHOCK DO NOT OPEN

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

WARNING: TO REDUCE THE RISK OF FIRE OR ELEC-
TRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO
RAIN OR MOISTURE.

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

CAUTION:

This Digital Video Disc Player employs a Laser System.

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

Use of controls, adjustments or the performance of procedures
other than those specified herein may result in hazardous
radiation exposure.

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

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

SERIAL NUMBER: The serial number is found on the back of
this unit. This number is unique to this unit and not available to
others. You should record requested information here and
retain this guide as a permanent record of your purchase.

Model No. _____

Serial No. _____

Features:

• Complete versatility to play DVD, VCDs, audio CDs or VHS
Tapes.

• Watch a DVD while recording a TV show to the VCR.

• Remote controls both DVD and VCR decks.

• Records from DVD to VHS (unless DVD is copy protected
with Macrovision).

• Hi-Fi Stereo VCR.

Important notes on controlling this unit

This unit uses one set of controls to operate both DVD
and VCR. The following buttons are helpful in
successfully controlling each part.

1 **POWER Button**
Press the POWER button on the remote control or
front panel to turn on this unit.

2 **DVD Button**
Press DVD button on the remote control when you
want to control the DVD.
The DVD indicator will light on the front panel
display to show that the DVD is selected.

3 **VHS Button**
Press the VHS button on the remote control when
you want to control the VCR.
The VHS indicator will light on the front panel
display to show that the VCR is selected.

4 **DVD/VCR Toggle**
Press the DVD/VHS SELECT button on the front
panel to toggle control between the DVD and the
VCR.

5 **OUTPUT SELECT Button**
Select one of your output sources to view on the
TV screen.

Introduction

Preparation

Operation

Reference

About the symbols for instructions

⚠ Indicates hazards likely to cause harm to the unit itself or other material damage.

𝔑 Indicates special operating features of this unit.

𝒯 Indicates tips and hints for making the task easier.

Playable Discs

DVD VIDEO™	DVD (8 cm / 12 cm disc)
disc COMPACT DIGITAL VIDEO	Video CD (VCD) (8 cm / 12 cm disc)
disc COMPACT DIGITAL AUDIO	Audio CD (8 cm / 12 cm disc)

In addition, this unit can play a CD-R or CD-RW that contains audio titles or MP3 files.

Notes

– Depending on the conditions of the recording equipment or the CD-R/RW disc itself, some CD-R/RW discs cannot be played on the unit.
– The unit cannot play the CD-R/RW discs that contain no data, or contain different kinds of formatted data other than MP3 and CD-DA data.
– Do not attach any seal or label to either side (the labeled side or the recorded side) of a disc.
– Do not use irregular shaped CDs (e.g., heart-shaped or octagonal). It may result in malfunctions.

Notes on DVDs and Video CDs

Some playback operations of DVDs and Video CDs may be intentionally fixed by software manufacturers. As this unit plays DVDs and Video CDs according to disc content designed by the software manufacturer, some playback features of the unit may not be available, or other functions may be added.
Refer also to the instructions applied with the DVDs and Video CDs. Some DVDs made for business purposes may not be played on the unit.

Regional code of the DVD player and DVDs

This DVD player is designed and manufactured for playback of region "2" encoded DVD software. The region code on the labels of some DVD discs indicates which type of player can play those discs. This unit can play only DVD discs labeled "2" or "ALL". If you try to play any other discs, the message "Check Regional Code" will appear on the TV screen. Some DVD discs may not have a region code label even though their playback is prohibited by area limits.

Disc-related terms

Title (DVD only)

The main film content or accompanying feature content or additional feature content, or music album. Each title is assigned a title reference number enabling you to locate it easily.

Chapter (DVD only)

Sections of a picture or a musical piece that are smaller than titles.
A title is composed of one or several chapters. Each chapter is assigned a chapter number, enable you to locate the chapter you want. Depending on the disc, no chapters may be recorded.

Track (Video CD and audio CD only)

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

Scene

On a video CD with PBC (Playback control) functions, moving pictures and still pictures are divided into sections called "Scenes". Each scene is displayed in the menu screen and assigned a scene number, enabling you to locate the scene you want.
A scene is composed of one or several tracks.

Types of video CDs

There are two types of video CDs:

Video CDs equipped with PBC (Version 2.0)

PBC (Playback control) functions allow you to interact with the system via menus, search functions, or other typical computer-like operations. Moreover, still pictures of high resolution can be played if they are included in the disc.

Video CDs not equipped with PBC (Version 1.1)

Operated in the same way as audio CDs, these discs allow playback of video pictures as well as sound, but they are not equipped with PBC.

Precautions

Handling the unit

When shipping the unit
The original shipping carton and packing materials come in handy. For maximum protection, re-pack the unit as it was originally packed at the factory.

When setting the unit
The picture and sound of a nearby TV or radio may be distorted during playback. In this case, position the unit away from the TV or radio, or turn off the unit after removing the disc.

To keep the surface clean
Do not use volatile liquids, such as insecticide spray, near the unit. Do not leave rubber of plastic products in contact with the unit for a long period of time. They will leave marks on the surface.

Cleaning the unit

To clean the cabinet
Use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution. Do not use strong solvents, such as alcohol, benzine, or thinner, as these might damage the surface of the unit.

To obtain a clear picture
The DVD player is a high-tech, precision device. If the optical pick-up lens and disc drive parts are dirty or worn down, the picture quality will be poor.
Regular inspection and maintenance are recommended after every 1,000 hours of use. (This depends on the operating environment.)
For details, please contact your nearest dealer.

Notes on Discs

Handling discs

Do not touch the playback side of the disc.
Hold the disc by the edges so that fingerprints will not get on the surface.
Do not stick paper or tape on the disc.

Storing discs

After playing, store the disc in its case.
Do not expose the disc to direct sunlight or sources of heat, or leave it in a parked car exposed to direct sunlight, as there may be a considerable temperature increase inside the car.

Cleaning discs

Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center out.
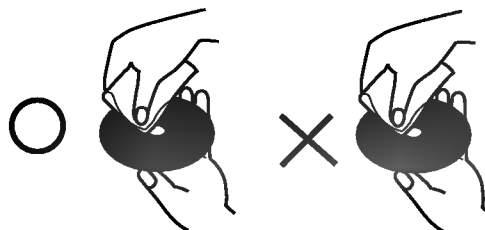
Do not use strong solvents such as alcohol, benzine, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.

About Symbols

About the ⊘ symbol display

" ⊘ " may appear on the TV screen during operation. This icon means the function explained in this owner's manual is not available on that specific DVD video disc.

About the disc symbols for instructions

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

DVD

Video CDs with the PBC (playback control) function.

Video CDs without the PBC (playback control) function.

Audio CDs.

MP3 disc.

Tape Eject

PAUSE (❙❙/❙❙►)
Pause playback temporarily / press repeatedly
for frame-by-frame playback.

STOP (■)
Stops playback.

Forward Skip/Scan, Fast-Forward (►►/►►❙)
Go to NEXT chapter/track.
Press and hold for two seconds for a fast forward search.
Winds the tape forwards.

PLAY (►)
Starts playback.

DVD OPEN/CLOSE (▲)
Opens or closes the disc tray.

Reverse Skip/Scan, Rewind (❙◄◄/◄◄)
Go to beginning of current chapter/track
or to PREVIOUS chapter/track.
Press and hold for two seconds for a fast
reverse search
Rewinds the tape.

Disc Tray
Insert a disc here.

POWER
Switches the unit to
ON or OFF.

Tape Compartment

Video IN Jack

Audio IN (L/R) Jacks

DVD/VHS Indicator

DVD/VHS Selector

DVD to VHS Copy Button

Display window
Shows the current
status of the unit.

VCR Record

Channel Programme Selectors

Remote Sensor
Point the remote control here.

TITLE Indicates current title number

PROG. Programmed playback active

Channel programme

MP3 MP3 disc inserted

🎥 ANGLE active

Bilingual mode

Indicates repeat mode

CD Audio CD inserted
■ DVD inserted
VCD Video CD inserted

The current TV
show or video is
broadcast in stereo

CHP/TRK Indicates current chapter or track number

VCR's internal tuner is engaged

A timer recording is programmed or in progress

VCR recording is engaged

Indicates total playing time/elapsed time

Child Lock is engaged

DVD to VHS copy is in progress

The Hi-Fi track of a VHS
tape is playing

Cassette-In indicator

The VCR Record
Speed is set to SP
or LP

A↔B   🎥   PROG. TITLE CHP/TRK VCR TIMER ▬ O┐ CDREC ▬ ♂♂

ALL MP3

VCD
DVD   BIL PR   SP LP

ST

DVD/VHS select button
Selects operational mode of remote control.
POWER
Switch this unit ON or OFF.
TV/VCR
Switch between your TV's tuner and the VCR's internal tuner.
DISPLAY
CLK/CNT
Access the On-Screen Display. Shows you the current time or counter.
◄ ► ▲ ▼ (left/right/up/down)
- Select an item in the menu
- Select channel programme of VCR.
SETUP/ⓘ
Access or remove setup menu.
TITLE ·
Display the title menu of the disc if available.
PAUSE/STEP (II) ·
Pause playback temporarily / press repeatedly for frame-by-frame playback.
STOP (■) ·
Stops playback.
0-9 numerical buttons
Select numbered items in a menu.
AUDIO ·
Select an audio language (DVD) or an audio channel (CD).
SUBTITLE ·
Select a subtitle language.
MARKER ·
Mark any point during playback.
SEARCH ·
Display MARKER SEARCH menu.
ANGLE ·
Select DVD camera angle if available
RETURN ·
- Remove the setup menu.
- Displays the menu of a video CD with PBC.
CHILD LOCK
Switch the Child Lock on and off.
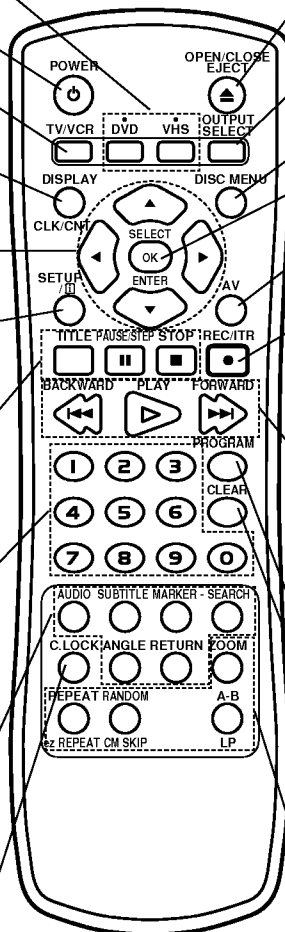
OPEN/CLOSE
EJECT
- Open or close the the disc tray.
- Tape Eject.
OUTPUT SELECT
Select one of your output sources to view on the TV screen.
DISC MENU
Access menu of a DVD disc.
SELECT/ENTER/OK
Acknowledge menu selection.
AV
Select input source for recording into tape.
REC/ITR
Record your input sources into tape.
· **Forward SKIP/SCAN (►►I)/**
  Fast - Forward
  - Search forward* / go to next chapter or track.
  - Winds the tape forwards.
  * Press and hold button for about two seconds.
· **PLAY (►)**
  Starts playback.
· **Reverse SKIP/SCAN (I◄◄)/**
  Rewind
  - Search backward* / go to beginning of current chapter or track or go to previous chapter or track.
  - Rewinds the tape.
  * Press and hold button for about two seconds.
PROGRAM
Access or remove program menu.
CLEAR
- Clear a track number on the program menu or a mark on the MARKER SEARCH menu.
- Reset tape counter to zero.
· **REPEAT/ez REPEAT**
  - Repeat chapter, track, title, all.
  - ez REPEAT
· **A-B/LP**
  - Repeat sequence.
  - Select the recording speed of the tape.
· **RANDOM/CM SKIP**
  - Play tracks in random order.
  - CM SKIP
· **ZOOM**
  Enlarge video image.

Remote Control Operation Range

Point the remote control at the remote sensor and press the buttons.
● **Distance:** About 23 ft (7 m) from the front of the remote sensor
● **Angle:** About 30° in each direction of the front of the remote sensor

Remote control battery installation
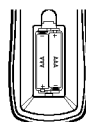
Detach the battery cover on the rear of the remote control, and insert two R03 (size AAA) batteries with ⊕ and ⊖ aligned correctly.

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

AUDIO OUT (Left/Right)
Connect to an amplifier, receiver or stereo system.

COMPONENT VIDEO OUT (Y Pb Pr)
Connect to a TV with Y Pb Pr inputs.

COAXIAL (Digital audio out jack)
Connect to digital (coaxial) audio equipment.

AERIAL
Connect the aerial using this jack.

AC Power Cord
Connect to a power source.

EURO AV1 AUDIO/VIDEO (VHS IN+OUT/DVD OUT)
Connect to your TV set or another video recorder.

RF.OUT
Connect to your TV using this jack.

5.1 CHANNEL AUDIO OUT
Connect to a 5.1 channel receiver
– center speaker connection
– subwoofer connection
– front speakers connections
– rear (surround) speakers connections

VIDEO OUT
Connect to a TV with video inputs.

⚠

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

𝒯 Tips

● Depending on your TV and other equipment you wish to connect, there are various ways you could connect the unit.
● Please refer to the manuals of your TV, Stereo System or other devices as necessary to make the best connections.
● For better sound reproduction, connect this unit's AUDIO OUT jacks to the audio in jacks of your amplifier, receiver, stereo or audio/video equipment. See "Connecting to optional equipment" on page 10.

⚠ Caution

– Make sure this unit is connected directly to the TV. Set the TV to the correct video input channel.
– Do not connect this unit's AUDIO OUT jack to the phono in jack (record deck) of your audio system.

Connecting to a TV

● Make one of the following connections, depending on the capabilities of your existing equipment.
● When using the COMPONENT VIDEO OUT jacks, set TV's INPUT to COMPONENT VIDEO.

Basic connection (AV)

1 Connect the **EURO AV1 AUDIO/VIDEO** on the rear panel of this unit to the RCA input socket on the TV using a SCART to RCA lead.

Basic connection (RF)

1 Connect the RF antenna cable from your indoor/ outdoor antenna to AERIAL jack on the rear panel of this unit.

2 Connect the supplied RF antenna cable from the RF.OUT jack on the rear panel of this unit to your television's Antenna Input.

Component Video (Color Stream®) connection (for DVD)

1 Connect the COMPONENT VIDEO OUT jacks on the unit to the corresponding in jacks on the TV using an optional Y Pb Pr cable.

2 Connect the Left and Right AUDIO OUT jacks of the unit to the audio left/right in jacks on the TV using the audio cables.

DVD exclusive out connection

● You can only watch the DVD playback.

1 Connect the VIDEO OUT jack on this unit's DVD EXCLUSIVE OUT to the video in jack on the TV using the video cable.

2 Connect the Left and Right AUDIO OUT jacks of this unit's DVD EXCLUSIVE OUT to the audio left/ right in jacks on the TV using the audio cables.

Rear of this unit (DVD exclusive out connection)
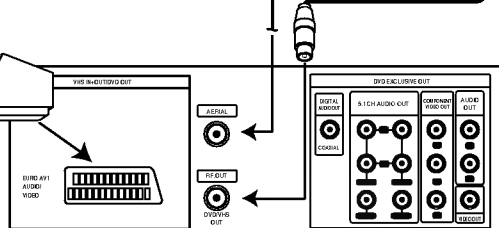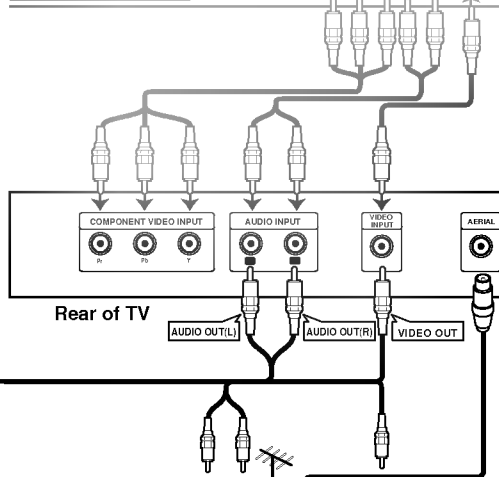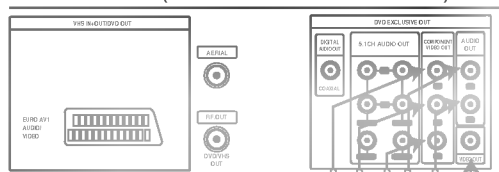
Rear of TV

Rear of this unit (Basic connection)

Connecting to Optional Equipment

Connecting to an amplifier equipped with two channel analog stereo or Dolby Surround

Connect the Left and Right AUDIO OUT jacks on this unit to the audio left and right in jacks on your amplifier, receiver or stereo system, using the audio cables.

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

1 Connect this unit's DIGITAL AUDIO OUT jack (COAXIAL) to the corresponding in jack on your amplifier. Use an optional coaxial audio cable.
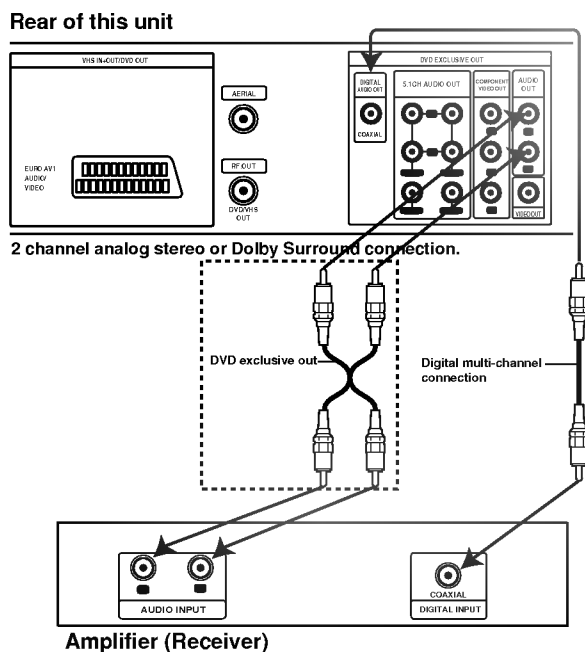
2 You will need to activate this unit's digital output. (See "Digital Audio Output" on page 18).

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 unit (MPEG 2, Dolby Digital and DTS). Check the receiver manual and the logos on the front of the receiver.

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

Rear of this unit

2 channel analog stereo or Dolby Surround connection.

DVD exclusive out

Digital multi-channel connection

Amplifier (Receiver)

𝓝 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.

Analog connection to a multi-channel A/V receiver with 6 Channel connectors (Dolby Digital, DTS)

This DVD Player contains a multi-channel decoder. This enables playback of DVDs recorded in Multi-channel Surround without the need for an optional decoder.

1 Connect the CENTER and WOOFER jacks for the Center speaker and the Subwoofer to the corresponding in jacks on your receiver.

2 Connect the Left and Right FRONT speaker jacks to the corresponding in jacks on your receiver.

3 Connect the Left and Right REAR speaker jacks to the corresponding in jacks on your receiver.

4 Make the appropriate Sound settings for Analog Output and Speaker Settings in the setup menu. See page 18.

Rear of this unit

Amplifier (Receiver)
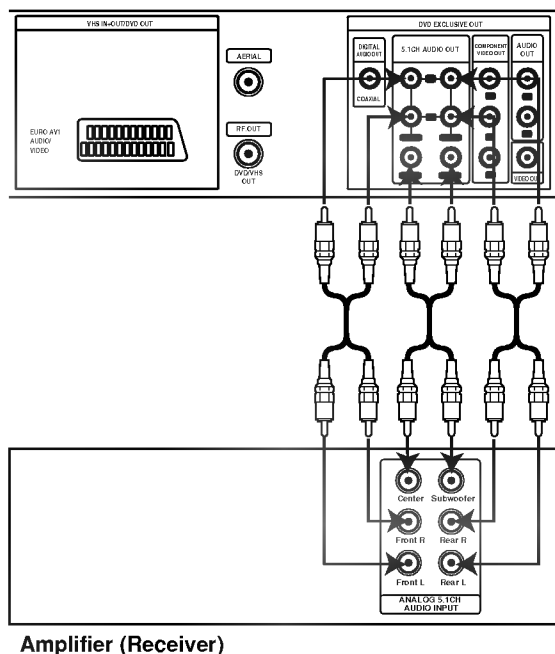
Using your VCR very first time

Following picture will display on the TV screen when you have just connected your video recorder for the very first time.

To make tuning TV stations, please follow stages 3 to 4 as shown "ACMS" (see p.13).

ACMS

Tuning in a video channel on your TV

Notes

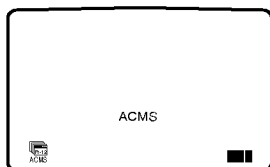● The output frequency of this video recorder (VCR) is set at UHF channel 36. If channel 36 is already used by another TV station, or if the picture is distorted, you can change the transmitter channel of your VCR. Stages 5 ~ 8 will show you how to change the output frequency of your VCR.

● Your TV receives signals from the video recorder (VCR) like another TV station. You have to select a channel number on your TV and tune it in so that you may watch video tapes. If you have used **AUDIO** and **VIDEO** cables then your TV should already have a dedicated video channel built into it, usually called **AV**.

1 Make sure that you have correctly installed your VCR as described earlier in this book.
Press **POWER** to turn on your VCR.
Turn on your TV.

2 Insert a pre-recorded video tape into your VCR and press **PLAY** on the remote control.
Select a TV channel number on which you wish to watch video's.
Don't worry if you don't have a video-tape to play at this stage! If you switch your VCR on and continue stages **3 ~ 4**, instead of seeing video playback tune your TV until you see a bright blue screen.

3 Tune this channel until the video picture is sharp and the sound is clear.
If you have used a **AUDIO** and **VIDEO** cables you will not have to tune your TV, simply select the AV channel. The **AV** channel is already pre-tuned for optimum video playback on your TV.

4 Store this channel on your TV.
You will need to look at the TV instruction book if you do not know how to do this.

5 **Only carry out stages 5 ~ 8 if you cannot obtain clear video playback as described in stages 1 ~ 4.**
Select a TV channel number on which you wish to watch video's.
Make sure that your VCR is in standby pressing **POWER** on the remote control (only the clock will be displayed).

6 Press **PROG.** ▲ or ▼ on the front of your VCR for more than 4 seconds.
RF36 will appear in the display window.
The following picture will be displayed on the TV screen.

RF CHANNEL 36
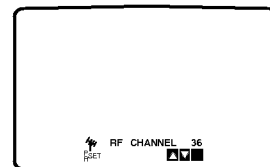
7 Press **PROG.** ▲ or ▼ to select another video channel.
You may select any channel number between 22 and 68.
You can also set it to "OFF" if there is any interference when your TV is connected to the VCR with a SCART to RCA lead.

8 Select a TV channel number on which you wish to watch video's.

Press ⏻ POWER on the front of your VCR when you have finished.
Tune this channel so that a bright blue screen appears.
Store this channel on your TV.

Notes

Make sure that you have correctly installed your VCR and successfully tuned in a dedicated video channel on your TV. If you do not tune in a dedicated video channel on your TV you will be unable to view and record video tapes!

Setting the clock Manually

The clock in your VCR controls time and date settings for your VCR.

1 Press **i**.
Press ◀ or ▶ to select **TIME DATE**.
Press **OK**.

```
        HH  MM  DD  MM  YY
       ■ : - -  - - . - - . - -  - - -
 ▣
 TIME
 DATE                      ▲▼◀▶■
```

2 Use the **numbered buttons** on the remote control to alter the **HOURS, MINUTES, DAY, MONTH** and **YEAR**.
Please note your VCR uses a 24 hour clock. e.g. 1pm will be displayed as 13:00.
The day of the week will appear automatically when you enter the year.

```
        HH  MM  DD  MM  YY
        8 : 00   1 . 01 . ■   TUE
 ▣
 TIME
 DATE                      ▲▼◀▶■
```
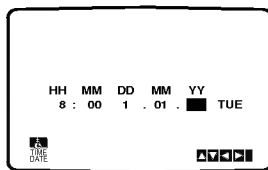
3 If you make a mistake press ◀ or ▶ and enter the correct details.

4 Press **i**.

To set the colour system

1 Press **i**.

2 The main menu will appear on the TV screen.

3 Press ◀ or ▶ to select the **SYSTEM** and press **OK**.

4 Press ▲ or ▼ to select according to the **COLOUR** system used.

```
  ↻         ⊡ A,B ▥     ⊡
 REC          OSD  Dr.
 7cs
 ON
 OFF  4:3   OPR            ▲▼◀▶■
```
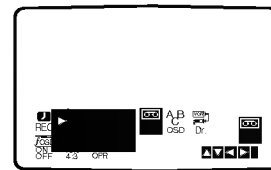
5 Press ◀ or ▶ to select the RF AUDIO.
Press ▲ or ▼ to select according to the RF AUDIO used.

```
  ↻         ⊡ A,B ▥     ⊡
 REC          OSD  Dr.
 7cs
 ON
 OFF  4:3   OPR            ▲▼◀▶■
```
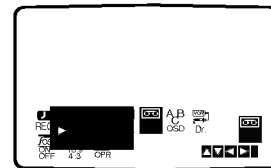
6 Press **i** to remove the menus from the TV screen.

How to using the main menu

This VCR can easily be programmed by using the menus displayed on screen.
The menus are controlled from the Remote Control Handset.

1 Switch on your TV set and video recorder by pressing the **POWER** button.

2 Press **i** button.
The main menu will appear on the TV screen.

- **REC** - Timer recording setting (see p. 22).
- **PR SET** - Manual tuning setting (see p. 14).
- **ACMS** - ACMS (Automatic Channel Memory System) (see p. 13).
- **TIME DATE** - Date & clock setting (see p. 12).
- **SYSTEM** - To set the Colour TV System (see p. 12).
- **ABC OSD** - To change the language setting for OSD.
  You can select the language among English, Russian, Deutsch, Français and Polski.
- **Dr.** - To check a problem with your VCR (see p. 28).
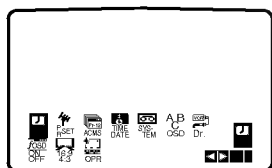- **F.OSD ON/OFF** - To display the operational mode of your VCR (see p. 28).
- **16:9/4:3** - To select the aspect ratio of your TV (see p.29).
- **OPR** - To improve the playback picture (see p. 20).

3 Press ◄ and ► to select the desired menu.
Press **OK** and press ▲ or ▼ to select.

4 Press "**i**" to return to a TV picture.

Tuning in TV Stations Automatically

If the TV broadcast signal is weak your VCR may not detect the necessary information and will be and to store them correctly. To overcome this problem please turn to the MANUAL TUNING section on page 14.

1 Press **POWER** to turn on your VCR.

2 Press **i** button.
The main menu will appear on the TV screen.
Press ◄ or ► to select the **ACMS**.
Press **OK**.
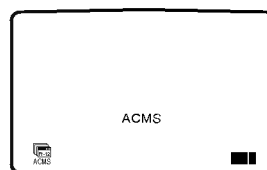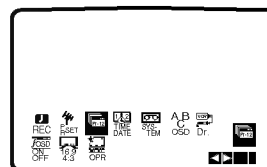
3 Press **OK** again to start the automatic tuning process.
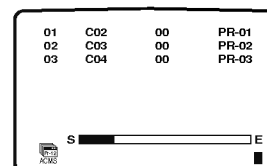
4 The **TV STATION TABLE** will appear when tuning is complete.
Press **i** to save your settings.
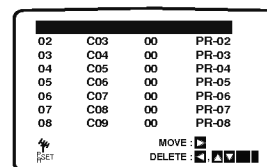
Tuning in TV Stations Manually

In certain areas of the country broadcast signals may be too weak for your VCR's automatic tuning process to find or assign TV stations correctly. You must tune in these weaker broadcast stations manually in order for your VCR to store them.

1 Press **i**.
The main menu will appear on the TV screen.
Press ◀ or ▶ to select the **PR SET**.
Press **OK**.

PR	CH	MFT	STATION
01	■	00	PR-01

CHANNEL/CABLE : AV
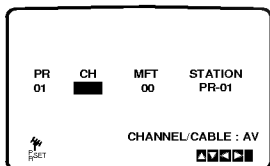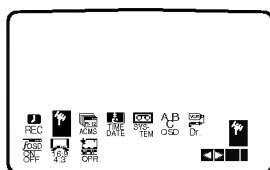
2 Press **i**.
The station table will appear.
Press ▲ or ▼ to select the programme number that you want to tune (for example, PR 09).

02	C03	00	PR-02
03	C04	00	PR-03
04	C05	00	PR-04
05	C06	00	PR-05
06	C07	00	PR-06
07	C08	00	PR-07
08	C09	00	PR-08

MOVE : ▶
DELETE : ◀, ▲▼

3 Press **OK**.
Press AV to select **C** (Standard stations) or **S** (Cable stations):
C02 - C69, S01 - S41.
Enter the channel number of station that you want to tune with **the numbered buttons** or use ▲ or ▼ to find the required station.

| PR	CH	MFT	STATION
09	■	--	----

CHANNEL/CABLE : AV
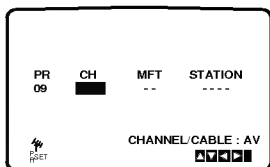
4 Searching will stop when it locates a station.
Press ▶ to select **MFT**.
Press ▲ or ▼ to adjust.

PR	CH	MFT	STATION
09	C10	■	

CHANNEL/CABLE : AV
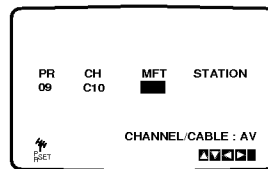
5 Press ▶ to select **STATION** so that you may name your TV station.
Press **OK**.

PR	CH	MFT	STATION
09	C10	00	■
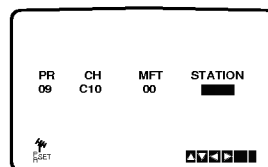
6 Press ▲ or ▼ to select **letters** and **numbers** for the new station name.
Press ◀ or ▶ to move back and forth between characters.
Press **OK**.

PR	CH	MFT	STATION
C09	C10	00	■
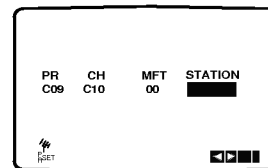
7 Press **i**, confirm the station placement.
Press **i** again.
Your new TV station has now been tuned into your VCR.
If you wish to manually tune other stations repeat stages **1 - 7**.

10	--	--	-----
11	--	--	-----
12	--	--	-----
13	--	--	-----
14	--	--	-----
15	--	--	-----
16	--	--	-----

MOVE : ▶
DELETE : ◀, ▲▼

Changing the order of TV Stations

After tuning TV stations into your VCR you may wish to change the order in which they are stored without having to retune them against! The instructions given on this page will show you how you can simply move them into your desired order.

1 Press **i**.
The main menu will appear on the TV screen.
Press ◄ or ► to select the **PR SET**.
Press **OK**.

| PR	CH	MFT	STATION
01	■	00	PR-01

CHANNEL/CABLE : AV
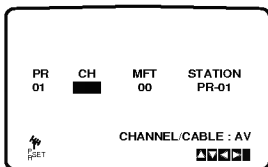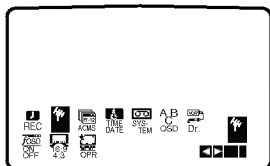
2 Press **i**.
Press ▲ or ▼ to select the **programme number** you want to move (for example, PR 03).
Press ►.

02	C03	00	PR-02
03	C04	00	PR-03
04	C05	00	PR-04
05	C06	00	PR-05
06	C07	00	PR-06
07	C08	00	PR-07
08	C09	00	PR-08

MOVE : ►
DELETE : ◄

| 01	C02	00	PR-01
02	C03	00	PR-02
03			
04	C05	00	PR-04
05	C06	00	PR-05
06	C07	00	PR-06
07	C08	00	PR-07
08	C09	00	PR-08

3 Press ▲ or ▼ to select the **programme number** you want to move to (for example, PR 05).

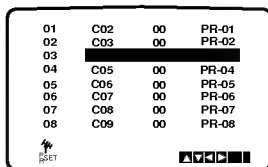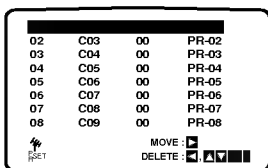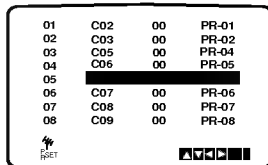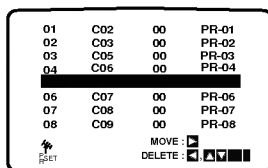| 01	C02	00	PR-01
02	C03	00	PR-02
03	C05	00	PR-04
04	C06	00	PR-05
05			
06	C07	00	PR-06
07	C08	00	PR-07
08	C09	00	PR-08

4 Press **OK**.
The selected **programme** will be moved to **the new programme number**.
If you wish to move other TV stations repeat stages 1 - 4.
Press **i** to remove the menus from the TV screen.

01	C02	00	PR-01
02	C03	00	PR-02
03	C05	00	PR-03
04	C06	00	PR-04
06	C07	00	PR-06
07	C08	00	PR-07
08	C09	00	PR-08

MOVE : ►
DELETE : ◄

Deleting TV Stations

After tuning TV stations into your VCR you may wish to delete a station.
The instructions given on this page will show you how easily delete any unwanted TV stations.

1 Press **i**.
The main menu will appear on the TV screen.
Press ◄ or ► to select the **PR SET**.
Press **OK**.

PR	CH	MFT	STATION
01	■	00	PR-01

CHANNEL/CABLE : AV
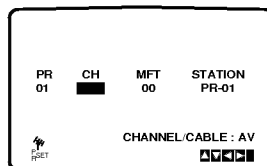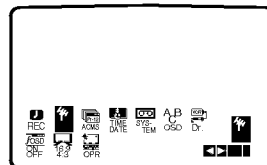
2 Press **i**.
Press ▲ or ▼ to select the **programme number** you want to delete. (for example, PR 03)

02	C03	00	PR-02
03	C04	00	PR-03
04	C05	00	PR-04
05	C06	00	PR-05
06	C07	00	PR-06
07	C08	00	PR-07
08	C09	00	PR-08
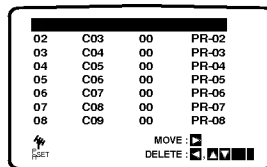
MOVE : ►
DELETE : ◄

3 Press ◄.
After a short while, the selected station will be deleted.

01	C02	00	PR-01
02	C03	00	PR-02
04	C06	00	PR-04
05	C04	00	PR-05
06	C07	00	PR-06
07	C08	00	PR-07
08	C09	00	PR-08
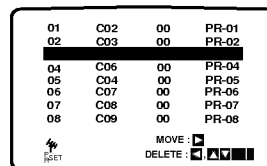
MOVE : ►
DELETE : ◄

4 Press **i** to remove the menus from the TV screen.
If you wish to delete other TV stations repeat stages **1 - 3**.

01	C02	00	PR-01
02	C03	00	PR-02
04	C04	00	PR-04
05	C07	00	PR-05
06	C08	00	PR-06
07	C09	00	PR-07
08	C10	00	PR-08

MOVE : ►
DELETE : ◄
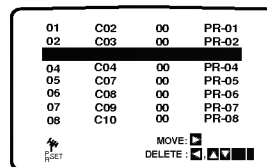
How to selecting Stored TV stations:

Stored TV stations can be selected in either of two ways.
Press PROG. ▲ or ▼ to select different stations that are tuned into your VCR.
You may also directly select stations using the **numbered buttons** on the remote control.

General Explanation

This manual gives the basic instructions for operating this unit. 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 this unit or is not available on the disc.

On-Screen Display

The general playback status can be displayed on the TV screen. Some items can be changed on the menu.

On-screen display operation
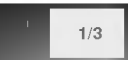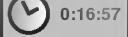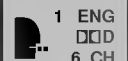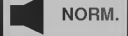
1 **Press DISPLAY during playback.**

2 **Press ▲ or ▼ to select an item.**
The selected item will be highlighted.

3 **Press ◄ or ► to change the setting of an item.**
The number buttons can be also be used for setting numbers (e.g., title number). For some functions, press SELECT/ENTER to execute the setting.
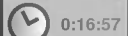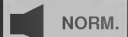
Temporary Feedback Field Icons

TITLE	Repeat Title
CHAPT	Repeat Chapter
TRACK	Repeat Track (non-PBC Video CDs only)
ALL	Repeat All Tracks (non-PBC Video CDs only)
A B	Repeat A-B
OFF	Repeat Off
	Resume play from this point
⊘	Action prohibited or not available

♪ Notes

- Some discs may not provide all of the below On-Screen Display.
- If no button is pressed for 10 seconds, the On-Screen Display disappears.

Items		Function (Press ▲/▼ to select desired item)	Selection Method
Title Number	1/3	**Shows the current title number and total number of titles, and** skips to the desired title number.	◄ / ►, or Numbers, SELECT/ENTER
Chapter Number		**Shows the current chapter number and total number of chapters, and** skips to the desired chapter number.	◄ / ►, or Numbers , SELECT/ENTER
Time search	0:16:57	**Shows the elapsed playing time, and** searches the point by the elapsed time directly.	Numbers , SELECT/ENTER
Audio language and Digital Audio Output mode	1 ENG DⅮD 6 CH	**Shows the current audio soundtrack language, encoding method, and channel number, and** changes the setting.	◄ / ►
Subtitle language	OFF	**Shows the current subtitles language, and** changes the setting.	◄ / ►
Angle	1/1	**Shows the current angle number and total number of angles, and** changes the angle number.	◄ / ►
Sound	NORM.	**Shows the current sound mode, and** changes the setting.	◄ / ►

Items		Function (Press ▲/▼ to select desired item)	Selection Method
Track Number	1/4	**Shows the current track number, total number of tracks and PBC On mode, and** skip to the desired track number.	◄ / ►, or Numeric, SELECT/ENTER
Time	0:16:57	**Shows the elapsed playing time (Display only)**	–
Audio Channel		**Shows the audio channel, and** changes the audio channel.	◄ / ►
Sound	NORM.	**Shows the current sound mode, and** changes the setting.	◄ / ►

Initial Settings

You can set your own Personal Preferences on this unit.

Initial Settings General Operation

1 **Press SETUP.**
The setup menu appears.
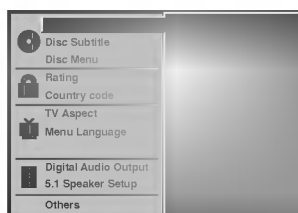
2 **Press ▲/▼ to select the desired item.**
The screen will show the current setting for the selected item, as well as alternate setting(s).

3 **While the desired item is selected, press ▶, then ▲/▼ to select the desired setting.**

4 **Press SELECT/ENTER to confirm your selection.**
Some items require additional steps.

5 **Press SETUP, RETURN or PLAY to exit the setup menu.**

Language

Disc Language

Select a language for the disc's Menu, Audio, and Subtitle.
Original : The original language set for the disc is selected.
Other : To select another language, press number buttons to enter the corresponding 4-digit number according to the language code list on page 34. If you enter the wrong language code, press CLEAR.

Menu Language

Select a language for the setup menu. This is the menu you see when you press SETUP.

Picture

TV Aspect

4:3 Letterbox: Select when a standard 4:3 TV is connected. Displays theatrical images with masking bars above and below the picture.
4:3 Panscan: Select when a standard 4:3 TV is connected. Displays pictures cropped to fill your TV screen. Both sides of the picture are cut off.
16:9 Wide: Select when a 16:9 wide TV is connected.
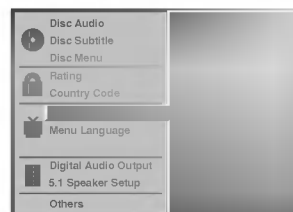
Sound

Digital Audio Output

Each DVD disc has a variety of audio output options.
Set the player's Digital Audio Output according to the
type of audio system you use.
DOLBY DIGITAL/PCM: Select "DOLBY DIGITAL/PCM"
if you connected this unit's DIGITAL OUT jack to a
Dolby Digital decoder (or an amplifier or other equip-
ment with a Dolby Digital decoder).
Stream/PCM: Select "Stream/PCM" if you connected
this unit's DIGITAL OUT jack to an amplifier or other
equipment with a DTS decoder, Dolby Digital decoder
or MPEG decoder.
PCM: select when connected to a 2-channel digital
stereo amplifier. This unit outputs sounds in the PCM
2ch format when you play a DVD video disc recorded
on the Dolby Digital, MPEG1, or MPEG2 recording sys-
tem.
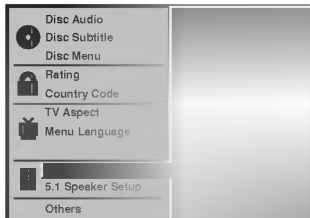
Sample Frequency

To change the Sample Frequency setting, first select
the desired Digital Audio Output as indicated as above.
If your receiver or amplifier is NOT capable of handling
96KHz signals, select 48KHz. When this choice is
made, this unit will automatically convert any 96KHz
signals to 48KHz so your system can decode them.
If your receiver or amplifier is capable of handling
96KHz signals, select 96KHz. When this choice is
made, this unit will pass each type of signal through
without any further processing.

5.1 Speaker settings

Select speaker settings, including volume balance and
delay time, or test the speaker settings.
Speaker settings are only active on the Analog Multi-
Channel Output. (See "Speaker Settings", page 33.)

Others

The DRC, Vocal and PBC settings can be changed.
● Press ▲/▼ to select the desired item and press
SELECT/ENTER. The setting of the selected item is
changed between On and Off.

Dynamic Range Control (DRC)

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

Vocal

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

PBC

Set Playback Control (PBC) to On or Off.
On: Video CDs with PBC are played according to the PBC.
Off: Video CDs with PBC are played the same way as Audio
CDs.

Parental Control

Rating 🔴

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

1 Select "Rating" on the Setup menu using the ▲ and ▼ buttons.

2 While "Rating" is selected, press ▶.

3 When you have not entered a password yet.
Enter a 4-digit password using the numbered buttons to create a personal 4-digit security password, then press SELECT/ENTER. Enter the 4-digit password again and press SELECT/ENTER to verify.
When you have already entered a password;
Enter a 4-digit password using the numbered buttons to confirm the personal 4-digit security password, then press SELECT/ENTER.

If you make a mistake before pressing SELECT/ENTER, press CLEAR and enter 4-digit security password again.

4 Select a rating from 1 to 8 using the ▲/▼ buttons. One (1) has the least playback restrictions. Eight (8) has the most playback restrictions.
Unlock: If you select Unlock, Parental Control is not active. The disc will play in full.
Ratings 1 to 8: Some discs contain scenes not suitable for children. If you set a rating for the player, all disc scenes with the same rating or lower will be played. Higher rated scenes will not be played unless an alternative scene is available on the disc. The alternative must have the same rating or a lower one. If no suitable alternative is found, playback will stop. You must enter the 4-digit password or change the rating level in order to play the disc.

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

Country Code 🔴

Enter the code of a country/area whose standards were used to rate the DVD video disc, referring to the list (See "Country Code List", page 35.).

1 Select Country Code using the ▲/▼ buttons on the setup menu.

2 While Country Code is selected, press ▶.

3 Follow step 3 of "Rating" on left.

4 Select the first character using the ▲/▼ buttons.

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

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

🅝 Note
Confirmation of the 4-digit password is necessary when the code is changed (see "Changing the 4-digit code" below).

Changing the 4-digit code

1 Follow Steps 1-2 as shown above to the left (Rating).
2 Enter the old code, then press SELECT/ENTER.
3 Select Change using the ▲/▼ buttons then press SELECT/ENTER.
4 Enter the new 4-digit code, then press SELECT/ENTER.
5 Enter exactly the same code a second time and verify by pressing SELECT/ENTER.
6 Press SETUP to exit the menu.

If you forget your 4-digit code

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

1 Press SETUP to display the setup menu.
2 Use the Number buttons to enter the 6-digit number "210499".
The 4-digit password is cleared.
3 Enter a new code as shown above to the left (Rating).

Playing a tape

You will only be able to load and eject video cassettes when your VCR is plugged into the mains.
Your VCR may also playback recordings from NTSC tapes (on PAL TV).

Getting a better picture

When a cassette is inserted and playback started, the automatic tracking function works to get the best possible picture automatically. If the quality of the recording is poor, repeatedly press ▲ or ▼ on the remote control to manually adjust the tracking until any distortions have been removed. Press numbered **0** on the remote control to switch automatic tracking back on again.

1 Make sure that you have correctly connected your VCR as described earlier in this book.
Turn on your TV.
Press **POWER** to turn on your VCR.
Insert the video cassette into your VCR.
The video cassette should have the window side facing up and the arrow facing away from you.

2 Press **PLAY** to start playing your tape.
If you load a video cassette which has had its record protection tab removed, playback of the cassette will start automatically.

AUTO TRACKING
Your VCR will automatically adjust the tracking to give the best picture quality.

3 Press **PAUSE/STEP** to still a picture.
Press **PAUSE/STEP** repeatedly to advance the tape frame by frame.
If you hold down **FORWARD**, the picture will be slowed down at about 1/19 times the normal playback.
Tapes can be paused for up to 5 minutes. After 5 minutes your VCR will stop the tape to prevent damaging the tape or your VCR .
Still picture quality can be improved slightly by pressing ▲ or ▼.

4 Press **PLAY** to continue playing your tape.
Picture search:
During playing back press either **FORWARD** or **BACKWARD** to this will enable you to rapidly wind the tape (7 times normal playback) see where you are on the tape.

Logic search:
During fast forwarding or rewinding press and hold **FORWARD** or **BACKWARD** the picture will be played back at 7 times normal playback speed.

5 **Slow motion playback**, **Shuttle :**
During playing back or still picture press ◄ or ►.
You can reach the following playback speeds.
(-7xplay, -3xplay, -play, still, 1/19 slow, play, 2xplay, 7xplay)
To switch off the slow motion and shuttle, press the desired function.
During slow motion and shuttle, the noise bars may appear on the picture according to the status of tape.
If distortions can be seen in the picture, reduce them with ▲ or ▼.

6 Press **STOP** to end playback.
Press **EJECT**.
If the end of the tape is reached, your VCR will stop playback automatically, rewind, stop, eject the tape.

CM (Commercial Message) Skip:

This feature enables you during playback of a tape to skip a commercial break in a few seconds, then resume normal playback.
While tape is playing press **CM SKIP** on the remote control to skip commercial (or another programme material).
Repeatedly press **CM SKIP** to skip:
1 Press 30 seconds
2 Press 60 seconds
3 Press 90 seconds
4 Press 120 seconds
5 Press 150 seconds
6 Press 180 seconds

OPR (Optimum Picture Response)

This feature automatically improves playback picture quality by adjusting your VCR to the condition of the tape.

1 Press i.

2 Press ◄ or ► to select OPR.

3 Press OK.
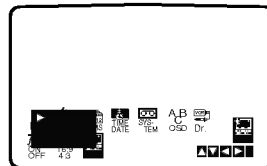
4 Press ▲ or ▼ repeatedly to select: **OFF**, **SOFT** or **SHARP**.
Please note you may only set OPR when playing a tape.

5 Press i return to screen.

Instant Timer Recording (ITR)

Your VCR allows you to make recordings using a variety of simple methods:
Instant Timer Recording (ITR) start recording immediately for a set period of time or until the video cassette runs out.

Your VCR incorporates Long Play (LP) which enables you to record up to twice the amount of time on a video cassette. For example an E-180 will record up to 180 minutes using Standard Play (SP); using LP you will be able to record up to 360 minutes. Please note there will be a slight loss in picture and sound quality when using LP.

1 Make sure that you have correctly connected your VCR as described earlier in this book.
Press **POWER** to turn on your VCR.

2 Insert a video cassette with protection tab into your VCR.
The video cassette should have the window side facing up and the arrow facing away from you.

3 Press ▲ or ▼ to select the **programme number** you wish to record.
You may also directly select programme number using the **numbered buttons** on the remote control.

4 If you wish to record directly from the SCART or RCA sockets repeatedly press **AV** until the socket you wish to record from is displayed.

AV 1 for recording from EURO AV1 SCART socket on the rear of your unit.
AV 2 for recording from VIDEO 2 and AUDIO 2 (Left & Right) sockets on the front of your unit.

5 Press **LP** if you wish to record in Long Play or Standard Play.
SP will produce improved picture and sound quality, however LP will provide twice as much recording time as SP.

6 Press **REC/ITR** to start recording.
RECORD will appear on the TV screen.
Press **REC/ITR** several times. Each successive press will increase the record time by 30 minutes until you reach a maximum of 9 hours.

7 Press **PAUSE/STEP** to avoid recording unwanted scenes.
Press **PAUSE/STEP** to continue recording.
Tapes can be paused for up to 5 minutes; RECP will be displayed when a tape is paused. After 5 minutes your VCR will stop recording to prevent damaging the tape or your VCR.

8 Press **STOP** to end recording.
Press **EJECT**.
EJECT will appear on the TV screen for a few seconds.

Notes

- If you do not wish to record on a tape (this can happen quite easily by accident!) remove the protection tab on the back edge of the video cassette.
- It is possible to record on a video cassette with the record protection tab removed by covering the hole with self adhesive tape.
- Remember you can record one programme while watching another by starting your instant recording, press **TV/VCR** to select TV mode and then selecting a different channel on your TV.

Timer recording using On Screen Display

You may set up to seven timer record events within one month of the current date.

𝕹 Note

Before setting the timer make sure that you have set the VCR clock correctly and you know which stations you have tuned TV stations on your VCR.

1 Insert a video cassette with protection tab into your VCR.
The video cassette should have the window side facing up and the arrow facing away from you.

2 Press **i**.
Press ◄ or ► to select **REC**.
Press **OK**.

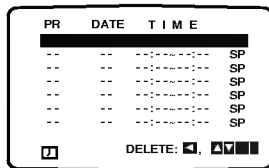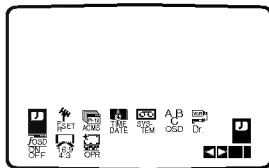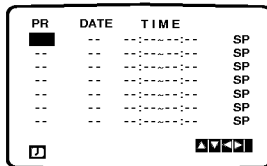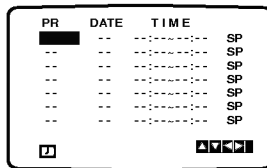| PR	DATE	T I M E	
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP

DELETE: ◄, ▲▼◼◼

3 Press **OK** to start setting the timer record event.
If all timer record events are full press ▲ or ▼ to select the event that you wish to remove and replace.
Press ◄ to delete the event.

PR	DATE	T I M E	
◼	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP

▲▼◄►◼

4 Press the **numbered buttons** to enter the station that you wish to record.
When selecting stations 1 - 9, press 0 first, then the channel number; for example Stations 3 - 03. You may also select Channels by pressing ▲ or ▼.
Once selected press ►.
If you wish to record from AUDIO 2 (L/R) and VIDEO 2 on the front or from the EURO SCART socket on the back of your unit, press AV to select for correct display (AV1 or AV2).

PR	DATE	T I M E	
◼	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP

▲▼◄►◼

5 Press the **numbered buttons** to enter the date of the programme.
If you press **OK** before entering the date you may select one of the following automated recording features. Press ◄ or ► to select, then press **OK** to confirm.
DLY To record every day (except Saturday and Sunday) at the same time.
Weekly To record at the same time every week.

PR	DATE	T I M E	
PR-01	◼	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP

◼ SU MO TU WE TH FR SA

◄►◼◼
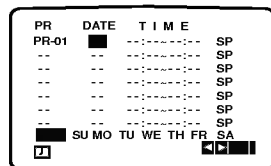
6 Press the **numbered buttons** to enter the recording start and end times of the programme that you wish to record.
Please note your VCR uses a 24 hour clock. e.g. 1pm will be displayed as 13:00.
You may also select the the start and end times by pressing ▲ or ▼.

PR	DATE	T I M E	
PR-01	16	19:00~20:◼	SP
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP

▲▼◄►◼
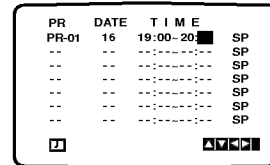
7 Press ► to select the recording speed.
Press ▲ or ▼ to select the desired tape speed (SP, IP, or LP).
IP mode determines how much tape is left and switches speed from SP to LP, if necessary, to complete recording the program.

PR	DATE	T I M E	
PR-01	16	19:00~20:00	◼
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP
--	--	--:-- ~ --:--	SP

▲▼◄►◼
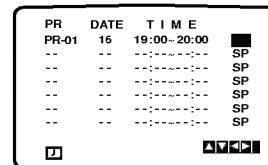
8 Check that the timer event details are correct.
Press **i** twice.
If **PLEASE CHECK** is displayed, you have entered incorrect and will need to re-enter the data.
Press **POWER** to switch your VCR Standby.
TIMER will appear in the display window while your VCR waits to make the recording.

𝕹 Notes

● If at a later date you wish to **delete** or **change** any of the settings in timer event memory you may do so without having to enter all the timer event information again. Simply display the timer event screen. Press ▲ or ▼ to select the event that you wish to **delete** or **change**.
Press ◄ to delete the event...or
Press **OK** to change; then press ◄ or ► to select; Station, Date, Start and End times and LP. Press ▲ or ▼ to enter the correct information.

● **If Timer record events Overlap...**
Make sure that the preset times of the timer recording events do not overlap. If they do, the earlier programme will always be given priority.
Example:
Programme 1 is programmed to start at 16:00 and end at 17:00.
Programme 2 is programmed to start at 16:30 and end at 17:30.
(In this case, Programme 1 will be recorded in its entirety, but only the last 30 minutes of Programme 2 will be recorded.)

● To watch a DVD while performing a timer recording, press **TV/VCR.**

Playing a DVD and Video CD

🎬 Playback Setup ⬛ ⬛ ⬛

● Turn on the TV and select the video input source connected to the DVD player.
● Audio system: Turn on the audio system and select the input source connected to the DVD player.

1 **Press OPEN/CLOSE to open the disc tray.**

2 **Load your chosen disc in the tray, with the label facing up.**
When a double-sided DVD is inserted, make sure the side you want to play is facing up.

3 **Press OPEN/CLOSE to close the tray.**
READING appears on the TV screen, and playback starts automatically. If playback does not start, press PLAY.
In some cases, the disc menu might appear instead.

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

⬛

Use the ◄ ► ▲ ▼ buttons to select the title/chapter you want to view, then press SELECT/ENTER to start playback.
Press TITLE or DISC MENU to return to the menu screen.

⬛

● 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 also may set PBC to Off under setup. See page 18.

🅽 Notes
– 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 "Parental Control", on page 19).
– DVDs may have a region code.
– Your player will not play discs that have a region code different from your player. The region code for this player is 2 (two).
– To watch a DVD while performing a timer recording, press **TV/VCR.**

General Features

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

Moving to another TITLE ⬛

| 1/3 |

When a disc has more than one title, you can move to another title as follows:
● Press DISPLAY when playback is stopped, then press the appropriate numbered button (0-9) to select a title number.

Moving to another CHAPTER/TRACK

⬛ ⬛ | 1/12 | | 1/3 |

When a title on a disc has more than one chapter or a disc has more than one track, you can move to another chapter/track as follows:
● Press I◄◄ or ►►I briefly during playback to select the next chapter/track or to return to the beginning of the current chapter/track.
● Press I◄◄ twice briefly to step back to the previous chapter/track.
● To go directly to any chapter during DVD playback, press DISPLAY. Then, press ▲/▼ to select C (chapter) (or for a Video CD, select T for track). Then, enter the chapter/track number using the numbered buttons (0-9).

🅽 Note
For two-digit numbers, press the buttons in rapid succession.

Slow Motion ⬛ ⬛ ⬛

1 Press I◄◄ or ►►I during pause.
The player will enter SLOW mode.
2 Use the I◄◄ or ►►I to select the required speed: ◄I 1/16, ◄I 1/8, ◄I 1/4 or ◄I 1/2 (backward), or I► 1/16, I► 1/8, I► 1/4 or I► 1/2 (forward).
3 To exit slow motion mode, press PLAY.

🅽 Note
Slow motion playback in reverse is not applicable for Video CD.

General Features (continued)

Still Picture and Frame-by-frame playback

▬▬ ▬▬ ▬▬

1 Press PAUSE during playback.
   The player will now go into PAUSE mode.
2 You can advance the picture frame-by-frame by pressing PAUSE repeatedly on the remote control.

Search ▬▬ ▬▬ ▬▬

1 Press and hold ◄◄ or ►►► for about two seconds during playback.
   The player will now go into SEARCH mode.
2 Press and hold ◄◄ or ►►► repeatedly to select the required speed: ◄◄X2, ◄◄X4, ◄◄X16, ◄◄X100 (backward) or ►►X2, ►►X4, ►►X16, ►►X100 (forward).
   With a Video CD, the Search speed changes: ◄◄X2, ◄◄X4, ◄◄X8 (backward) or ►►X2, ►►X4, ►►X8 (forward).
3 To exit SEARCH mode, press PLAY.

Random ▬▬▬▬ ▬▬

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

𝕋 Tips

By pressing ◄◄ or ►►► during Random playback, the unit selects another title (track) and resumes Random playback.

𝓝 Note

This function only works with DVD Karaoke discs and video CD without PBC.

Repeat ▬▬ ▬▬ ▬▬

CHAPT	TITLE

TRACK	ALL	OFF

DVD Video Discs - Repeat Chapter/Title/Off

1 To repeat the currently playing chapter, press REPEAT.
   The Repeat Chapter icon appears on the TV screen.
2 To repeat the title currently playing, press REPEAT a second time.
   The Repeat Title icon appears on the TV screen.
3 To exit Repeat mode, press REPEAT a third time.
   The Repeat Off icon appears on the TV screen.

Video CDs - Repeat Track/All/Off

1 To repeat the track currently playing, press REPEAT.
   The Repeat Track icon appears on the TV screen.
2 To repeat the disc currently playing, press REPEAT a second time.
   The Repeat All icon appears on the TV screen.
3 To exit Repeat mode, press REPEAT a third time.
   The Repeat Off icon appears on the TV screen.

𝓝 Note

On a Video CD with PBC, you must set PBC to Off on the setup menu to use the Repeat function. See page 18.

Repeat A-B ▬▬ ▬▬ ▬▬

A ·	A B	OFF

To repeat a sequence in a title:

1 Press A-B at your chosen starting point.
   A- appears briefly on the TV screen.
2 Press A-B again at your chosen end point.
   A-B appears briefly on the TV screen, and the repeat sequence begins (a-b repeat appears on the player's display).
3 To cancel the sequence, press A-B.

Time Search ▬▬ | 0:16:57 | | -:--:-- |

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

1 Press DISPLAY during playback. The on-screen display appears on the screen.
   The Time Search box shows the elapsed playing time of the current disc.
2 Within 10 seconds, press ▲/▼ to select the Time Search icon in the on-screen display.
   The "-:--:--" appears in the Time Search box.
3 Within 10 seconds, use the number buttons to enter the required start time. Enter hours, minutes, and seconds from left to right in the box.
   If you enter the wrong numbers, press CLEAR to remove the numbers you entered. Then enter the correct numbers.
4 Within 10 seconds, press SELECT/ENTER to confirm the start time.
   Playback starts from the selected time on the disc. If you enter an invalid time, playback will continue from the current point.

3D Surround ▬▬ | NORM. | | 3D SUR |

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

1 Press DISPLAY during playback.
2 Press ▲/▼ to select "NORM." or "3D SUR".
3 Press ◄/► repeatedly until the desired sound is selected.

General Features (continued)

Zoom ⬤⬤ ⬤⬤ ⬤⬤

The Zoom function allows you to enlarge the video image and to move through the enlarged image.

1 Press ZOOM during playback or still playback to activate the Zoom function.
   If you press ZOOM repeatedly, the magnification level increases up to six times.

2 Use the ◀ ▶ ▲ ▼ buttons to move through the zoomed picture.

3 Press CLEAR to resume normal playback or return to the paused image.

🅽 Note
● The zoom function may not work for some DVDs.
● The zoom function may not work on multi-angle scenes.

Marker Search ⬤⬤ ⬤⬤ ⬤⬤

| | 1/9 | | MARKER SEARCH ◀- - - - - - - -▶ |

You can start playback from a memorized point. Up to nine points can be memorized.
To enter a mark, follow these steps.

1 During disc playback, press MARKER when playback reaches the spot that you want to memorize.
   The Marker icon will appear on the TV screen briefly.

2 Repeat step 1 to enter up to nine Marker points on a disc.

To Recall a Marked Scene

1 During disc playback, press SEARCH.
   The MARKER SEARCH menu will appear on the screen.

2 Within 10 seconds, press ◀/▶ to select a Marker number that you want to recall.

3 Press SELECT/ENTER.
   Playback will start from the Marked scene.

4 To remove the MARKER SEARCH menu, press SEARCH.

To clear a Marked Scene

1 During disc playback, press SEARCH.
   The MARKER SEARCH menu will appear on the screen.

2 Press ◀/▶ to select the Marker number that you want to erase.

3 Press CLEAR.
   The Marker number will be erased from the list.

4 Repeat steps 2 and 3 to erase additional Marker numbers.

5 To remove the MARKER SEARCH menu, press SEARCH.

Special DVD Features ⬤⬤

Checking the contents of DVD Video discs: Menus

DVDs may contain menus that allow you to access special features. To use the disc menu, press MENU. Then, press the appropriate number button to select an option. Or, use the ◀/▶/▲/▼ buttons to highlight your selection, then press SELECT/ENTER.

Title Menu ⬤⬤

1 Press TITLE.
   If the current title has a menu, the menu will appear on the screen. Otherwise, the disc menu may appear.

2 The menu can list camera angles, spoken language and subtitle options, and chapters for the title.

3 To remove the title menu, press TITLE again.

Disc Menu ⬤⬤

1 Press DISC MENU.
   The disc menu is displayed.

2 To remove the disc menu, press DISC MENU again.

Camera Angle ⬤⬤ | 1/1 |

If the disc contains scenes recorded at different camera angles, you can change to a different camera angle during playback.
● Press ANGLE repeatedly during playback to select a desired angle.
   The number of the current angle appears on the display.

## Changing the Audio Language ⬤⬤

| 1 ENG ⬜⬜⬜ 6 CH |

Press AUDIO repeatedly during playback to hear a different audio language or audio track.

Subtitles ⬤⬤ | 1 ENG |

Press SUBTITLE repeatedly during playback to see the different subtitle languages.
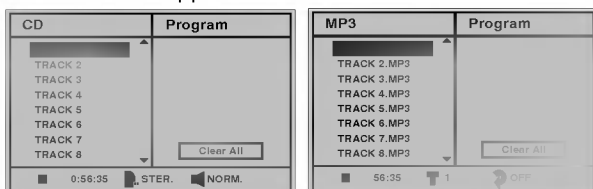
🅽 Note
If ⊘ appears, the feature is not available on the disc.

Playing an Audio CD and MP3 discs

The DVD Player can play MP3 formatted recordings on CD-ROM, CD-R, or CD-RW discs.
Before playing MP3 recordings, read the notes on MP3 Recordings on page 30.

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

CD	Program
TRACK 2	
TRACK 3	
TRACK 4	
TRACK 5	
TRACK 6	Clear All
TRACK 7	
TRACK 8	
■ 0:56:35 STER. NORM.	

MP3	Program
TRACK 2.MP3	
TRACK 3.MP3	
TRACK 4.MP3	
TRACK 5.MP3	
TRACK 6.MP3	Clear All
TRACK 7.MP3	
TRACK 8.MP3	
■ 56:35 1 OFF	

Audio CD menu   **MP3 menu**

2 **Press ▲/▼ to select a track then press PLAY.**
Playback starts.
During playback, the current track's elapsed playing time will appear on the display.
Playback will stop at the end of the disc.

3 **To stop playback at any other time, press STOP.**

Pause

1 Press PAUSE during playback.
2 To return to playback, press PLAY or press PAUSE again.

Moving to another Track

● Press BACKWARD I◀◀ or FORWARD ▶▶I briefly during playback to go to the next track or to return to the beginning of the current track.
● Press I◀◀ twice briefly to step back to the previous track.
● In case of audio CD, to go directly to any track, enter the track number using the numbered buttons (0-9) during playback.

Repeat Track/All/Off

1 To repeat the track currently playing, press REPEAT.
The Repeat Track icon appears on the menu screen.
2 To repeat all tracks on a disc, press REPEAT a second time.
The Repeat ALL icon appears on the menu screen.
3 To cancel Repeat mode, press REPEAT a third time.
The Repeat OFF icon appears on the menu screen.

Search

1 Press and hold BACKWARD I◀◀ or FORWARD ▶▶I for about two seconds during playback.
The player will now go into SEARCH mode.
2 Press and hold BACKWARD I◀◀ or FORWARD ▶▶I repeatedly to select the required speed: ◀◀X2, ◀◀X4, ◀◀X8 (backward) or ▶▶X2, ▶▶X4, ▶▶X8 (forward).
3 Search speed and direction are indicated on the menu screen.
4 To exit SEARCH mode, press PLAY.

Random

1 Press RANDOM during playback or when playback is stopped.
The unit automatically begins Random Playback and "RAND." appears on the menu screen.
2 To return to normal playback, press RANDOM repeatedly until "RAND." disappears on the menu screen.

Repeat A-B

To repeat a sequence.
1 During disc playback, press A-B at your chosen starting point.
The Repeat icon and "A -" appears on the menu screen.
2 Press A-B again at your chosen end point.
The Repeat icon and "A B" appears on the menu screen, and the sequence begins to play repeatedly.
3 To exit the sequence and return to normal play, press A-B again.
The Repeat icon and "OFF" appear on the menu screen.

3D Surround

This unit can produce a 3D Surround effect, which simulates multi-channel audio playback from two conventional stereo speakers, instead of the five or more speakers normally required to listen to multi-channel audio from a home theater system.
1 Press DISPLAY or AUDIO during playback.
2 Press ◀/▶ to select "NORM." or "3D SUR".
3 Press ▲/▼ repeatedly until the desired sound is selected.

Changing the Audio Channel

Press AUDIO repeatedly during playback to hear a different audio channel (STEREO, LEFT, or RIGHT).

Programmed Playback with Audio CD and MP3 Discs

Program allows you to store your favorite tracks for a particular disc in the player memory.

Program can contain 32 tracks (Audio CD) or 60 tracks (MP3 disc).

1 Insert the disc and close the tray.
The menu is displayed on the TV screen.

2 Press PROGRAM during playback or in the stop mode to enter the Program Edit mode.
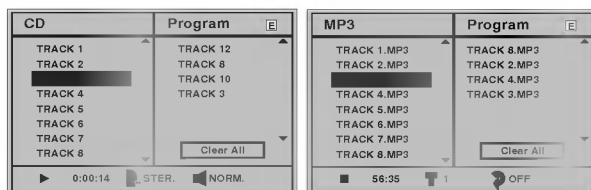The E mark will appear to the right of the word Program on the right side of the menu screen.

N Note
Press PROGRAM to exit the Program Edit mode; the E mark will disappear.

3 Press ▲/▼ to select a track, then press SELECT/ENTER to place the selected track on the Program list.

4 Repeat step 3 to place additional tracks on the Program list.

CD	Program	E
TRACK 1	TRACK 12	
TRACK 2	TRACK 8	
	TRACK 10	
TRACK 4	TRACK 3	
TRACK 5		
TRACK 6		
TRACK 7		
TRACK 8	Clear All	
▶ 0:00:14 STER. NORM.		

Audio CD menu

MP3	Program	E
TRACK 1.MP3	TRACK 8.MP3	
TRACK 2.MP3	TRACK 2.MP3	
	TRACK 4.MP3	
TRACK 4.MP3	TRACK 3.MP3	
TRACK 5.MP3		
TRACK 6.MP3		
TRACK 7.MP3		
TRACK 8.MP3	Clear All	
■ 56:35 1 OFF		

MP3 menu

5 Press ▶.
The programmed track you selected last is highlighted on the program list.

6 Press ▲/▼ to select the track you want to start playing.
Press TITLE to move to the next page.
Press DISC MENU to move to the previous page.

7 Press PLAY to start.
Playback begins in the order in which you programmed the tracks and "PROG." appears on the display window. Playback stops after all of the tracks on the Program list have played once.

Programmed Playback with Video CD

N Note
On a Video CD with PBC, you must set PBC to Off on the setup menu to use the Program function. See page 18.

1 Insert Video CD and close the tray.

2 Press PROGRAM while playback is stopped.
The VCD Program menu will appear.

VCD	Program	E
TRACK 2		
TRACK 3		
TRACK 4		
TRACK 5		
TRACK 6		
TRACK 7		
TRACK 8	Clear All	
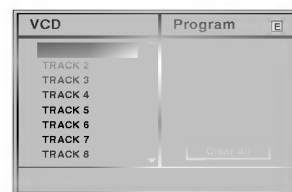
N Note
Press RETURN or PROGRAM to exit the Program menu.

3 Follow steps 3-7 of "Programmed Playback with Audio CD and MP3 Disc" on left.

Repeat Programmed Tracks

● To repeat the track currently playing, press REPEAT.
The Repeat Track icon appears on the menu screen.
● To repeat all tracks on the program list, press REPEAT a second time.
The Repeat All icon appears on the menu screen.
● To cancel Repeat mode, press REPEAT a third time.
The Repeat Off icon appears on the menu screen.

Erasing a Track from Program List

1 Press PROGRAM during playback or in the stop mode to enter the Program Edit mode.
The E mark will appear.
2 Press ▶ to move to the Program list.
3 Use ▲/▼ to select the track that you wish to erase from the Program list.
4 Press CLEAR.
The track will be erased from the Program list.

Erasing the Complete Program List

1 Follow steps 1-2 of "Erasing a Track from Program List" as above.
2 Use ▲/▼ to select "Clear All", then press SELECT/ENTER.
The complete Program for the disc will be erased.
The programs are also cleared when the disc is removed.

To resume normal playback from programmed playback

Press and hold PROGRAM for 3 seconds until "PROG." indicator disappears in the display window.

On Screen Display

You may easily display the current time or tape counter, amount of tape left, day, month, year, day of week, programme channel, tape speed and operational mode of your VCR will appear on the TV screen. If a recording is taking place these On Screen Displays will not be recorded onto the tape.

1 Press **CLK/CNT** to display.
Press **CLK/CNT** repeatedly to cycle through the display options. The tape counter and amount of tape left will appear if there is a tape loaded.

2 After 3 seconds the majority of the On Screen Displays will clear leaving only the clock or tape counter and the amount of tape left on the screen. Press **CLK/CNT** again to remove all displays from the TV screen.

Tape Counter Memory Stop

The **Digital Tape Counter** can be displayed on the display window instead of the time by pressing **CLK/CNT** on the remote control. The Digital Tape Counter indicates the relative positions of recordings on the tape.

1 Press **CLK/CNT**.
Press **CLEAR** to set the counter to 0:00:00.
Press **PLAY** or start recording.
The tape counter will display the actual play time in hours, minutes and seconds.

2 Press **STOP** when playback or recording is complete.
Press **BACKWARD**.
The tape will rewind and automatically stop when the counter returns to 0:00:00.

Child Lock

The control buttons on the front of the VCR can be switched off so that your VCR can only be operated using the remote control.

1 Press **C.LOCK**.
☩ will appear in the display window.
None of the buttons on the front of your VCR will work (except **STOP and EJECT**).
If any buttons on the front of your unit are pressed ☩ will flicker in the display window for a few seconds.

2 Press **C.LOCK** again to switch off the child lock.
☩ will disappear in the display window.

Video Doctor (Self-Diagnosis)

This feature informs you that there is a problem with your VCR. These error messages will appear on the TV screen.

1 Press **i**.
Press ◄ or ► to select **Dr**.
Press **OK**.
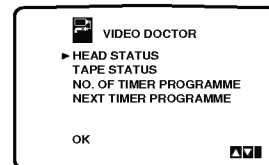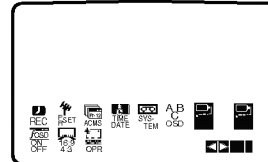
2 Press ▲ or ▼ to check a problem.
HEAD STATUS
● **PLEASE CLEAN:**
Clean your video heads.

TAPE STATUS
● **NOT RECORDABLE:**
Insert a tape with its protection tab in place

NO. OF TIMER PROGRAMME
● **2**
Shows the number of timer recording.

NEXT TIMER PROGRAMME
● **PR-01 26 10:00~11:00 SP**
Shows the current status of timer recording.

Press **i**.

ez (easy) repeat

By pressing & holding **ez REPEAT** during play back, the holding section is replayed twice automatically.

1 During play back, press & hold **ez REPEAT** at the point where repeat play is to be concluded.
Then, your VCR will go into reverse search.

2 Release **ez REPEAT** at the point where repeat play is to start.
The holding section is replayed twice automatically.

N Note
● Pressing **ez REPEAT** again during repeat play, will return to normal play.

Hi-Fi Stereo Sound System

Your VCR will record and playback Hi-Fi stereo sound. This allows you to record and playback the sound in several different ways. Video cassettes recorded on your VCR will have a normal mono audio track and two VHS Hi-Fi stereo audio tracks. These stereo tracks allow you to make audio recordings in Hi-Fi stereo or bilingual mode from a TV broadcast, stereo audio system, video disc or another Hi-Fi VCR.

1 Your VCR's allows you to enjoy broadcasts with standard stereo, bilingual and mono sound. The particular type of sound received or that recorded will be briefly displayed on the TV screen for a couple of seconds:
STEREO
Sound is automatically recorded on the Hi-Fi stereo and mono tracks of the video tape.
BIL
Both audio channels will be recorded on the Hi-Fi stereo tracks. The primary language channel (left) will be recorded on the mono track of the video tape.
MONO
The sound is recorded on the Hi-Fi tracks and the mono track of the video tape without any separation.

**2** Press **AUDIO** repeatedly until the desired audio mode appears.

3 The choice is **STEREO**, **LEFT**, **RIGHT** and **MONO**. In **BIL** playback the primary language is output on the left channel and the secondary channel is output simultaneously from the right channel when audio output is set to **STEREO**. The primary language will be output from both channels when the audio setting is **MONO**.
Please note that when adjusting the tracking control Hi-Fi stereo sound may revert to **MONO**.

Wide Screen Compatibility 16:9

Your VCR can record and play back wide screen aspect ratio programmes (16:9). To record a wide screen format programme successfully the correct type of wide screen signal must be broadcast by the TV station.

1 Switch on your VCR.
Press **i**.
Press ◄ or ► to select **16:9/4:3**.
Press **OK**.
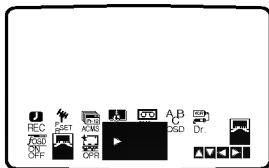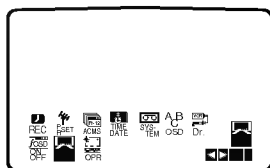
2 Press ▲ or ▼ repeatedly to select: **AUTO, 4:3** or **16:9**.
AUTO:
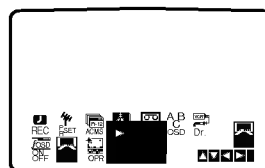Automatically plays back Wide-Screen programmes as Wide-Screen and Normal programmes as normal.
4:3
Only for playing back and recording Normal format recordings (4:3).
16:9:
Only for playing back and recording Wide-Screen format recordings (16:9).

3 Press **i** to remove the menus from the TV screen. To enjoy Wide-Screen playback you must connect your VCR to the TV using a SCART to RCA cable.

Last Condition Memory

● ● ●

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

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

Screen Saver

The screen saver picture appears when you leave the DVD Player in stop mode for about five minutes.

Video Mode Setting ● ● ●

● With certain discs, the playback picture may be flickering or Dot Crawl is shown on straight lines. That means Vertical interpolation or De-interlace is not perfectly matched with the disc. In this case, the picture quality may be improved by changing the video mode.

● To change the video mode, press and hold DISPLAY about 3 seconds during disc playback. The new video mode number selected is displayed on the TV screen. Check whether the video quality has improved. If not, repeat the above procedure until picture quality is improved.

● Video mode change sequence:
  MODE1 → MODE2 → MODE3 → MODE4 →
  MODE5 → MODE1

● If you turn off the the power, the video mode will be back to initial state (MODE1).

Notes on MP3 Discs

About MP3
● An MP3 file is audio data compressed by using MPEG1, the audio layer-3 file-coding scheme. We call files that have the ".mp3" file extension "MP3 files".
● The player can not read an MP3 file that has a file extension other than ".mp3".
● The player can not read a fake MP3 file that has a file extension ".mp3".

MP3 Disc compatibility with this player is limited as follows:
1. Sampling Frequency / only at 44.1kHz
2. Bit rate/ within 32 - 320kbps
3. CD-R physical format should be "ISO 9660"
4. If you record MP3 files using the software which cannot create a FILE SYSTEM, for example "Direct-CD" etc., it is impossible to playback MP3 files. We therefore recommend that you use "Easy-CD Creator", which creates an ISO9660 file system.
5. A single session disc requires MP3 files in the first track. If there is no MP3 file in the 1st track, it cannot playback MP3 files. If you wish to playback MP3 files, format all the data in the disc or use a new one.
6. We do not recommend using CD-RW discs. Please use finished CD-R discs only.
7. File names should be named using 8 letters or less and must incorporate the ".mp3" extension e.g. "********.MP3".
8. Do not use special characters such as "_?!><+*}{`[@]:;V.," etc.
9. Total number of files on the disc should be less than 200.
10. Use 74 minute CD-R discs (650M), do not use 80 minute CD-R (700M) software.

This DVD player requires discs/recordings to meet certain technical standards in order to achieve optimal playback quality. Pre-recorded DVDs are automatically set to these standards. There are many different types of recordable disc formats (including CD-R containing MP3 files).

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

Copying from DVD To VCR

This unit allows you to copy the contents of a DVD to a VHS tape with a press of the COPY button.

N Note
- If the DVD you are attempting to copy is copy protected, you may not be able to copy the disc.

1 Insert Disc
Insert the disc you wish to copy in the DVD deck and close the disc tray.

2 Insert VHS Tape
Insert a blank VHS videotape into the VCR deck.

3 Copy the DVD to VHS Tape
Press the COPY button on the unit front panel.
- The DVD will go into Play mode and the VCR will go into Record mode.
- If the DVD disc menu appears, you may need to press the Play button manually to begin copying.

4 Stop the Copy Process
When the DVD is finished playing, press the VHS button on the remote control and then press the STOP button to end the copy.
- You must stop the Copy process manually when the DVD movie ends, or the unit may replay and record over and over again.

Recording from another video recorder

With this video recorder you can make recordings from an external source, such as copying from another video recorder or a camcorder.

N Note
In the following description, this video recorder will be one used for recording and will be referred to as VCR B. The other appliance will be used for playback and will be referred to as VCR A.

1 VCR A should be connected to the SCART socket on the rear panel of your unit or the AV sockets on the front panel of your unit.

2 Insert the recorded tape into VCR A and a blank tape into VCR B.

3 To start recording, press the REC/ITR on VCR B and PLAY on VCR A.

4 When you want to finish copying, press the STOP on both video recorders.

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

Symptom	Cause	Correction
DVD or VCR do not work properly.	• DVD or VHS button is not switched properly.	• Refer to page 2.
No power.	• The power cord is disconnected.	• Plug the power cord into the wall outlet securely.
The power is on, but the DVD player does not work.	• No disc is inserted.	• Insert a disc. (Check that the DVD or, audio CD indicator in the display window is lit.)
No picture.	• The TV is not set to receive DVD signal output.	• Select the appropriate video input mode on the TV so the picture from the DVD player appears on the TV screen.
	• The video cable is not connected securely.	• Connect the video cable into the jacks securely.
No sound.	• The equipment connected with the audio cable is not set to receive DVD signal output.	• Select the correct input mode of the audio receiver so you can listen to the sound from the DVD player.
	• The audio cables are not connected securely.	• Connect the audio cable into the jacks securely.
	• The power of the equipment connected with the audio cable is turned off.	• Turn on the equipment connected with the audio cable.
	• The Digital Audio Output is set to the wrong position.	• Set the Digital Audio Output to the correct position, then turn on the DVD player again by pressing POWER.
The picture is poor.	• The disc is dirty. • The TV channels are not tuned in properly.	• Clean the disc. • Check tuning, carry out tuning again.
The DVD player does not start playback.	• An unplayable disc is inserted.	• Insert a playable disc. (Check the disc type 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 remote control does not work properly.	• There is an obstacle in the path of the remote control and this unit.	• Remove the obstacle.
	• The batteries in the remote control are exhausted.	• Replace the batteries with new ones.
Video tape cannot be inserted.	• Is the cassette compartment empty?	• Eject the tape in.
No Hi-Fi sound	• Audio mode is not set properly.	• Select "STEREO" by repeatedly pressing "AUDIO" on the remote control.

Video Head Cleaning
Dirt accumulating on the head after a long period of time can cause the playback picture to become blurred or broken up. High quality video cassette tapes will not normally deposit dirt onto the video head, but old or damaged tapes might. Clean the video heads with a commercially available video heads cleaning tape.

Make the following settings for the built-in 5.1 channel surround decoder.

1 Select "5.1 Speaker Setup" using the ▲/▼ buttons on the setup menu.

2 While "5.1 Speaker Setup" is selected, press ▶ button.

3 Press ◀/▶ buttons to select the desired speaker.

4 Adjust options by using ▲/▼/▼/▶ buttons.

Speaker selection

Select a speaker that you want to adjust. (Front speakers (Left), Front speakers (Right), Center Speaker, Rear speakers (Left), Rear speakers (Right), or Subwoofer)

📝 **Note**
Certain speaker settings are prohibited by the Dolby Digital licensing agreement.

Volume

Press ◀ / ▶ to adjust the output level of the selected speaker. (-10dB ~ 0dB)

Size

● Press ◀ / ▶ to set a mode. (Large, Small or None)

● If you have connected the system to a speaker with a low frequency of 100Hz or below, select "Large."

● If you have connected the system to a speaker without a low frequency of 100Hz or below, select "Small." If you have not connected a subwoofer, always select "Large" for Front speaker (L/R).

● When you do not have a certain speaker connected, select "None."

● Front L/R speaker's size can be set to "Large" or "Small."

● If Front L/R speaker's size is set to "Small," Rear and Center speaker's size can be set to "Small" or "None."

● Subwoofer's size can be set only to "Large" or "None.

Delay

● Press ◀ / ▶ to customize the sound to confirm to the acoustics of your room by adding a delay effect to the Center Speaker and Rear (Surround) Speakers.

● When 5.1 Channel Surround is played, you can enjoy the best sound if the distance between you and each speaker is the same. You can set the Delay time in the Center/Rear (Surround) Speakers to customize the sound to the acoustics of your room.
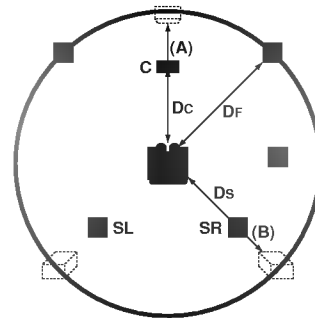
Setting the delay (Center Speaker)
If the distance of Dc is equal to or longer than the DF in the below figure, set the mode as 0ms. Otherwise, change the setting according to the table below.
(A) = DF - Dc

Distance of (A)(cm)	Setting(ms)
34	1
68	2
102	3
136	4
170	5

Setting the delay (Rear (Surround) Speaker)
If the distance of Df is equal to the distance of Ds in the above, set the mode as 0ms. Otherwise, change the setting according to the table below.
(B) = DF - Ds

Distance of (B)(cm)	Setting(ms)
170	5
340	10
510	15

Test

Press SELECT/ENTER to test the signals of each speaker. Adjust the volume to match the volume of test signals memorized in the system.
● Front Left (L) → Front Right (R) → Center → Rear Left (L) → Rear Right (R)

Return

Press SELECT/ENTER to return to the previous menu.

Enter the appropriate code number for the initial settings "Disc Audio", "Disc Subtitle" and/or "Disc Menu"
(See page 17).

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

Enter the appropriate code number for the initial setting "Country Code" (See page 19).

Code	Country	Code	Country	Code	Country	Code	Country
AD	Andorra	ER	Eritrea	LC	Saint Lucia	SC	Seychelles
AE	United Arab Emirates	ES	Spain	LI	Liechtenstein	SD	Sudan
AF	Afghanistan	ET	Ethiopia	LK	Sri Lanka	SE	Sweden
AG	Antigua and Barbuda	FI	Finland	LR	Liberia	SG	Singapore
AI	Anguilla	FJ	Fiji	LS	Lesotho	SH	Saint Helena
AL	Albania	FK	Falkland Islands	LT	Lithuania	SI	Slovenia
AM	Armenia	FM	Micronesia	LU	Luxembourg	SJ	Svalbard and Jan Mayen
AN	Netherlands Antilles	FO	Faroe Islands	LV	Latvia		Islands
AO	Angola	FR	France	LY	Libya	SK	Slovak Republic
AQ	Antarctica	FX	France (European	MA	Morocco	SL	Sierra Leone
AR	Argentina		Territory)	MC	Monaco	SM	San Marino
AS	American Samoa	GA	Gabon	MD	Moldavia	SN	Senegal
AT	Austria	GB	Great Britain	MG	Madagascar	SO	Somalia
AU	Australia	GD	Grenada	MH	Marshall Islands	SR	Suriname
AW	Aruba	GE	Georgia	MK	Macedonia	ST	Saint Tome and Principe
AZ	Azerbaidjan	GF	French Guyana	ML	Mali	SU	Former USSR
BA	Bosnia-Herzegovina	GH	Ghana	MM	Myanmar	SV	El Salvador
BB	Barbados	GI	Gibraltar	MN	Mongolia	SY	Syria
BD	Bangladesh	GL	Greenland	MO	Macau	SZ	Swaziland
BE	Belgium	GM	Gambia	MP	Northern Mariana Islands	TC	Turks and Caicos Islands
BF	Burkina Faso	GN	Guinea	MQ	Martinique (French)	TD	Chad
BG	Bulgaria	GP	Guadeloupe (French)	MR	Mauritania	TF	French Southern
BH	Bahrain	GQ	Equatorial Guinea	MS	Montserrat		Territories
BI	Burundi	GR	Greece	MT	Malta	TG	Togo
BJ	Benin	GS	S. Georgia & S. Sandwich	MU	Mauritius	TH	Thailand
BM	Bermuda		Isls.	MV	Maldives	TJ	Tadjikistan
BN	Brunei Darussalam	GT	Guatemala	MW	Malawi	TK	Tokelau
BO	Bolivia	GU	Guam (USA)	MX	Mexico	TM	Turkmenistan
BR	Brazil	GW	Guinea Bissau	MY	Malaysia	TN	Tunisia
BS	Bahamas	GY	Guyana	MZ	Mozambique	TO	Tonga
BT	Bhutan	HK	Hong Kong	NA	Namibia	TP	East Timor
BV	Bouvet Island	HM	Heard and McDonald	NC	New Caledonia (French)	TR	Turkey
BW	Botswana		Islands	NE	Niger	TT	Trinidad and Tobago
BY	Belarus	HN	Honduras	NF	Norfolk Island	TV	Tuvalu
BZ	Belize	HR	Croatia	NG	Nigeria	TW	Taiwan
CA	Canada	HT	Haiti	NI	Nicaragua	TZ	Tanzania
CC	Cocos (Keeling) Islands	HU	Hungary	NL	Netherlands	UA	Ukraine
CF	Central African Republic	ID	Indonesia	NO	Norway	UG	Uganda
CG	Congo	IE	Ireland	NP	Nepal	UK	United Kingdom
CH	Switzerland	IL	Israel	NR	Nauru	UM	USA Minor Outlying
CI	Ivory Coast	IN	India	NU	Niue		Islands
CK	Cook Islands	IO	British Indian Ocean	NZ	New Zealand	US	United States
CL	Chile		Territory	OM	Oman	UY	Uruguay
CM	Cameroon	IQ	Iraq	PA	Panama	UZ	Uzbekistan
CN	China	IR	Iran	PE	Peru	VA	Vatican City State
CO	Colombia	IS	Iceland	PF	Polynesia (French)	VC	Saint Vincent &
CR	Costa Rica	IT	Italy	PG	Papua New Guinea		Grenadines
CS	Former Czechoslovakia	JM	Jamaica	PH	Philippines	VE	Venezuela
CU	Cuba	JO	Jordan	PK	Pakistan	VG	Virgin Islands (British)
CV	Cape Verde	JP	Japan	PL	Poland	VI	Virgin Islands (USA)
CX	Christmas Island	KE	Kenya	PM	Saint Pierre and Miquelon	VN	Vietnam
CY	Cyprus	KG	Kyrgyzstan	PN	Pitcairn Island	VU	Vanuatu
CZ	Czech Republic	KH	Cambodia6	PR	Puerto Rico	WF	Wallis and Futuna Islands
DE	Germany	KI	Kiribati	PT	Portugal	WS	Samoa
DJ	Djibouti	KM	Comoros	PW	Palau	YE	Yemen
DK	Denmark	KN	Saint Kitts & Nevis Anguilla	PY	Paraguay	YT	Mayotte
DM	Dominica	KP	North Korea	QA	Qatar	YU	Yugoslavia
DO	Dominican Republic	KR	South Korea	RE	Reunion (French)	ZA	South Africa
DZ	Algeria	KW	Kuwait	RO	Romania	ZM	Zambia
EC	Ecuador	KY	Cayman Islands	RU	Russian Federation	ZR	Zaire
EE	Estonia	KZ	Kazakhstan	RW	Rwanda	ZW	Zimbabwe
EG	Egypt	LA	Laos	SA	Saudi Arabia		
EH	Western Sahara	LB	Lebanon	SB	Solomon Islands		

General

Power requirements	AC 110-240V, 50/60 Hz
Power consumption	23W
Dimensions (approx.)	430 X 97.5 X 360 mm (w/h/d)
Mass (approx.)	5.4 kg
Operating temperature	5˚C to 35˚C (41˚F to 95˚F)
Operating humidity	5 % to 90 %
Timer	24 hours display tape
RF Modulator	UHF 22 - 68 (Adjustable)

System

Laser	Semiconductor laser, wavelength 650 nm
Video Head system	Double azimuth 4 heads, helical scanning.
Signal system	PAL
Frequency response	DVD (PCM 96 kHz): 8 Hz to 44 kHz
	DVD (PCM 48 kHz): 8 Hz to 22 kHz
	CD: 8 Hz to 20 kHz
Signal-to-noise ratio	More than 100dB (ANALOG OUT connectors only)
Harmonic distortion	Less than 0.008%
Dynamic range	More than 100 dB (DVD)
	More than 95 dB (CD)

Inputs (VHS)

Audio	-6.0dBm, more than 10 kohms (SCART)
	-6.0dBm, more than 47 kohms (RCA)
Video	1.0 Vp-p, 75 ohms, unbalanced (SCART/RCA)

Outputs (DVD)

VIDEO OUT	1 Vp-p 75 ohms, sync negative
COMPONENT VIDEO OUT	(Y) 1.0 V (p-p), 75 Ω, negative sync., RCA jack x 1
	(Pb)/(Pr) 0.7 V (p-p), 75 Ω, RCA jack x 2
Audio output (digital audio)	0.5 V (p-p), 75 Ω, RCA jack x 1
Audio output (analog audio)	2.0 Vrms (1 KHz, 0 dB), 330 Ω, RCA jack (L, R)x1/SCART (TO TV)

Outputs (VHS)

Audio	-6.0dBm, less than 1 kohms (SCART)
Video	-1.0Vp-p, 75 ohms, unbalanced (SCART)

● Design and specifications are subject to change without notice.

LG Electronics Inc.