

# DVD PLAYER/ VIDEO CASSETTE RECORDER

# **OWNER'S MANUAL**

MODEL: DC596W/DC590W/DC591W





















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

Internet Address:http://www.lg.ru служба LG Electronics (095)742-77-77

## **Safety Precautions**



#### 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 ELECTRIC 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.

## Notes on copyrights:

It is forbidden by law to copy, broadcast, show, broadcast via cable, play in public, or rent copyright material without permission.

This product features the copy protection function developed by Macrovision. Copy protection signals are recorded on some discs.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

**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.

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## About the symbols for instructions

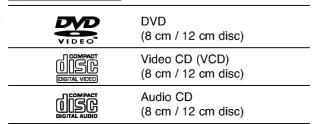
Indicates hazards likely to cause harm to the unit itself or other material damage.

Indicates special operating features of this unit.

Indicates tips and hints for making the task easier.

#### **Before Use**

#### **Playable Discs**



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 "5" 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 "5" 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.

## Before Use (Cont'd)

#### **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.



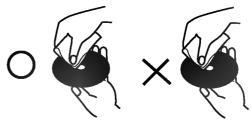


#### Storing discs

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

" No 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.

DV

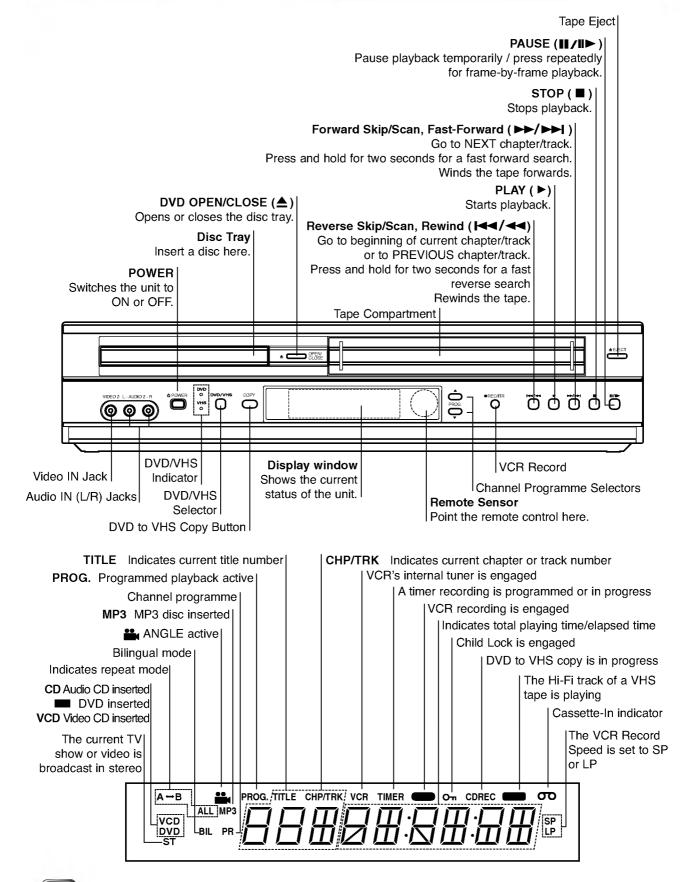
Video CDs with the PBC (playback control)

Video CDs without the PBC (playback control) function.

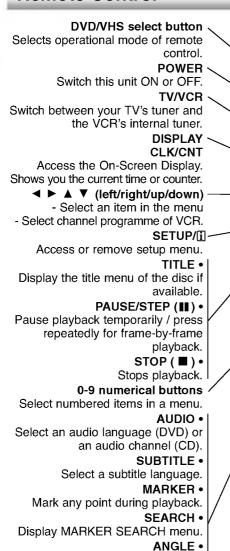
Audio CDs.

MP3 disc.

## **Front Panel and Display Window**



#### **Remote Control**



#### 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.

#### ΑV

(6)

(8)(9)

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

Select DVD camera angle if available

- Displays the menu of a video CD

Switch the Child Lock on and off.

- Remove the setup menu.

Point the remote control at the remote sensor and press the buttons.

**RETURN •** 

with PBC.

**CHILD LOCK** 

- **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



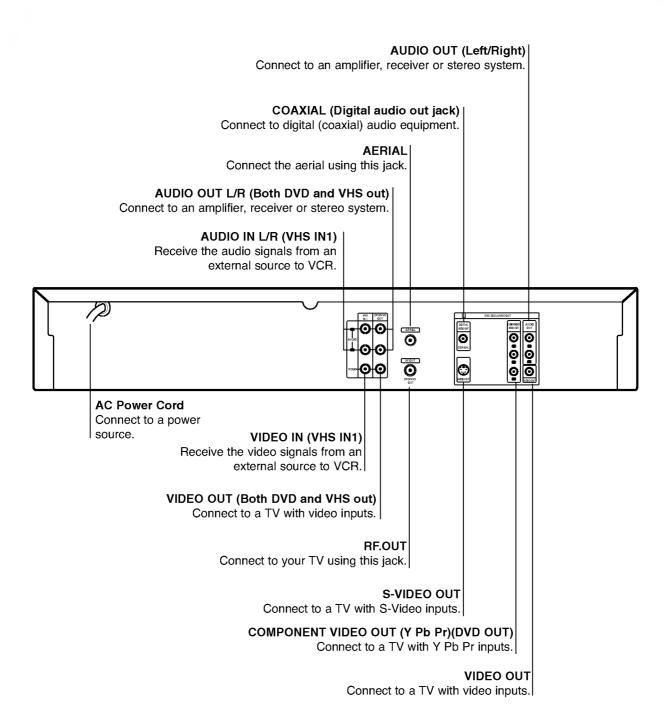
Detach the battery cover on the rear of the remote control, and insert two R03 (size AAA) batteries with ⊕ and ⊕ aligned correctly.

#### 

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



### **Rear Panel**



 $\Lambda$ 

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

### **Connections**

## **T**Tips

- Depending on your TV and other equipment you wish to connect, there are various ways you could connect the unit. Use only one of the connections described below.
- 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.

## **A**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.
- For using S-VIDEO OUT or COMPONENT VIDEO OUT jack, set the "TV Output Select" mode on the SETUP menu to corresponding mode. See page 17.

#### **Basic connection (AV)**

- Connect the VIDEO OUT jack on this unit's DVD/VHS OUT to the video in jack on the TV using the video cable supplied.
- 2 Connect the Left and Right AUDIO OUT jacks of this unit's DVD/VHS OUT to the audio left/right in jacks on the TV using the supplied audio cables.

#### **Basic connection (RF)**

- Connect the RF antenna cable from your indoor/ outdoor antenna to AERIAL jack on the rear panel of this unit.
- Connect the supplied RF antenna cable from the RF OUT jack on the rear panel of this unit to your television's Antenna Input.

#### S-Video connection (for DVD)

- Connect the S-VIDEO OUT jack on this unit to the S-Video in jack on the TV using the optional S-Video cable.
- Connect the Left and Right AUDIO OUT jacks of this unit to the audio left/right in jacks on the TV using the supplied audio cables.

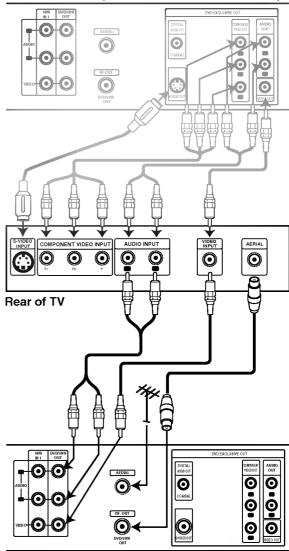
# Component Video (Color Stream®) connection (for DVD)

- Connect the COMPONENT VIDEO OUT jacks on the unit to the corresponding in jacks on the TV using an optional Y Pb Pr cable.
- Connect the Left and Right AUDIO OUT jacks of the unit to the audio left/right in jacks on the TV using the supplied audio cables.

#### **DVD** exclusive out connection

- You can only watch the DVD playback.
- Connect the VIDEO OUT jack on this unit's DVD EXCLUSIVE OUT to the video in jack on the TV using the video cable supplied.
- 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 supplied audio cables.

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



Rear of this unit (Basic connection)

## Connections (Cont'd) / Important notes on controlling this unit

## **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 supplied 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)

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 17).

#### **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 | VISTA | DIGITAL | DIGITAL

#### Amplifier (Receiver)



#### 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.
- To see the audio format of the current DVD in the On-Screen Display, press AUDIO.

# 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.

#### POWER Button

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

#### 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.

#### 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.

#### DVD/VCR Toggle

Press the DVD/VHS SELECT button on the front panel to toggle control between the DVD and the

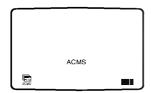
#### OUTPUT SELECT Button

Select one of your output sources to view on the TV screen.

## 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).



## 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.
- 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.
- 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.

Tune this channel until the video picture is sharp and the sound is clear.

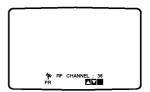
If you have used a **AUDIO** and **VIDEO** cables you will not have to tune your TV, simply select the AV channel. The **AV** channel is already pre-tuned for optimum video playback on your TV.

- 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.
- 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).

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.



- Press PROG. ▲ or ▼ to select another video channel. You may select any channel number between 22 and 68.
- Select a TV channel number on which you wish to watch video's.

Press OPOWER 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.

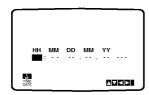
## Notes

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.

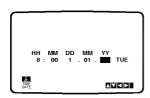
Press i.
Press ◀ or ▶ to select TIME DATE.
Press OK.



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.

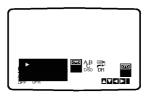


If you make a mistake press ◀ or ▶ and enter the correct details.



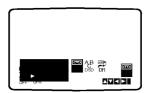
## To set the colour system

- Press i.
- The main menu will appear on the TV screen.
- Press ◀ or ▶ to select the SYSTEM and press OK.
- Press ▲ or ▼ to select according to the COLOUR system used.



Press ◀ or ▶ to select the RF AUDIO.

Press ▲ or ▼ to select according to the RF AUDIO used.



Press i to remove the menus from the TV screen.

## How to using the main menu

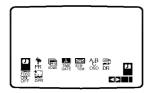
This VCR can easily be programmed by using the menus displayed on screen.

The menus are controlled from the Remote Control Handset.

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

Press i button.

The main menu will appear on the TV screen.



- REC Timer recording setting (see p. 22).
- PR 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).

RF AUDIO - To select the channel of audio output according to your TV type ("I/I" for PAL I/I TV, "B/G" for PAL B/G TV, "D/K" for PAL D/K TV) (see p.12).

 ABC OSD - To change the language setting for OSD.
 You can select the language among

You can select the language among English, Russian, Deutsch, Français, and Polski.

- **DR** To check a problem with your VCR (see p. 29).
- F.OSD ON/OFF To display the operational mode of your VCR (see p. 29).
- **OPR** To improve the playback picture (see p. 20).

Press ◀ and ▶ to select the desired menu.

Press OK and press ▲ or ▼ to select.

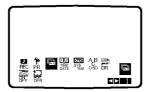
Press "i" to return to a TV picture.

## **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.

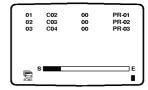
Press POWER to turn on your VCR.

Press i button.
The main menu will appear on the TV screen.
Press ◀ or ▶ to select the ACMS.
Press OK.



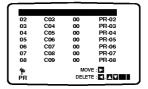


Press **OK** again to start the automatic tuning process.



The TV STATION TABLE will appear when tuning is complete.

Press i to save your settings.



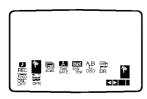
## **Tuning in TV Stations Manually**

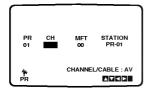
In certain areas of the country broadcast signals may be too weak for your VCR's automatic tuning process to find or assign TV stations correctly. You must tune in these weaker broadcast stations manually in order for your VCR to store them.

The main menu will appear on the TV screen.

Press ◀ or ▶ to select the PR.

Press OK.

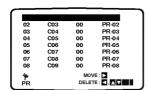




Press i.

The station table will appear.

Press ▲ or ▼ to select the programme number that you want to tune (for example, PR 09).

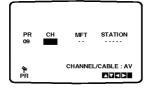


Press OK.

Press AV to select C (Standard stations) or S (Cable stations):

C02 - C70, S01 - S41.

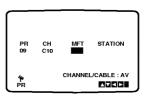
Enter the channel number of station that you want to tune with the numbered buttons or use ▲ or ▼ to find the required station.



Searching will stop when it locates a station.

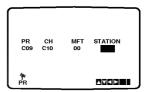
Press ▶ to select MFT.

Press ▲ or ▼ to adjust.



Press ▶ to select **STATION** so that you may name your TV station.

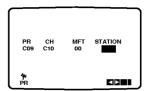
Press OK.



Press ▲ or ▼ to select letters and numbers for the new station name.

Press ◀ or ▶ to move back and forth between characters.

Press OK.



Press i, confirm the station placement. Press i again.

Your new TV station has now been tuned into your

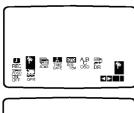
If you wish to manually tune other stations repeat stages 1 - 7.

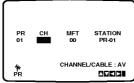


## **Changing the order of TV Stations**

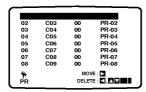
After tuning TV stations into your VCR you may wish to change the order in which they are stored without having to retune them against! The instructions given on this page will show you how you can simply move them into your desired order.

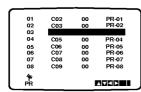
Press i. The main menu will appear on the TV screen. Press ◀ or ► to select the PR. Press OK.





Press i. Press ▲ or ▼ to select the programme number you want to move (for example, PR 03). Press ►.





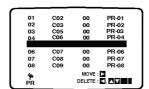
Press ▲ or ▼ to select the **programme number** you want to move to (for example, PR 05).

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.			
PR		1	

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.

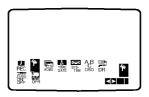


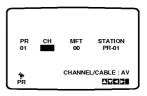
## **Deleting TV Stations**

After tuning TV stations into your VCR you may wish to delete a station.

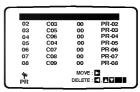
The instructions given on this page will show you how easily delete any unwanted TV stations.

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





Press i. Press ▲ or ▼ to select the programme number you want to delete. (for example, PR 03)



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

01 02	C02 C03	00 00	PR-01 PR-02
04 05 06	C06 C04 C07	00 00	PR-04 PR-05 PR-06
07 08	C08 C09	00 00	PR-07 PR-08
<b>%</b> PR	_	MOVE DELETE	

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

01 02	C02 C03	00	PR-01 PR-02
04	C04	00	PR-04
05 06	C07	00	PR-05
06	C08	00 00	PR-06 PR-07
08	C10	őő	PR-08
₩ PR		MOVE: DELETE :	

#### How to selecting Stored TV stations:

Stored TV stations can be selected in either of two ways. Press PROG.  $\blacktriangle$  or  $\blacktriangledown$  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  $\bigcirc$  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

Press DISPLAY during playback.

Press ▲ or ▼ to select an item.

The selected item will be highlighted.

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**

Repeat Title

CHAPT Repeat Chapter

Repeat Track (non-PBC Video CDs only)

Repeat All Tracks (non-PBC Video CDs only)

Repeat A-B

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	Shows the current title number and skip to the desired title number.	<b>√/</b> ▶, or Numeric,SELECT/ENTER
Chapter Number		Shows the current chapter number and skip to the desired chapter number.	<b>√/</b> ▶, or Numeric, SELECT/ENTER
Time search	0:16:57	Shows the elapsed playing time, and search the point by the elapsed time directly.	Numeric, SELECT/ENTER
Audio language and Digital Audio Output mode	1 ENG DCID 6 CH	Shows the current audio soundtrack language, encoding method, channel number and changes the setting.	<b>∢</b> ∕⊳, audio
Subtitle language	OFF	Shows the current subtitles language and changes the setting.	<b>∢/</b> ▶, SUBTITLE
Angle		Shows the current angle number and changes the angle number.	<b>∢/</b> ▶, ANGLE
Sound	-	Shows the current sound mode and changes the setting.	<b>√</b> /►

Items		Function (Press ▲/▼ to select desired item)	Selection Method
Track Number	1	Shows the current track number, and skip to the desired track number.	<b>√/⊳</b> , or Numeric, SELECT/ENTER FORWARD
Time	0:16:57	Shows the elapsed playing time (Display only)	
Audio Channel	-	Shows the audio channel and search the desired audio channel.	<b>∢/≻</b> , AUDIO
Sound		Shows the current sound mode, and change the setting.	<b>√</b> ▶



## Before Operation (Cont'd) - DVD part

## **Initial Settings**

You can set your own Personal Preferences on this unit.

## **Initial Settings General Operation**

1 PI

Press SETUP.

The setup menu appears.



Press ▲/▼ to select the desired item.

The screen will show the current setting for

The screen will show the current setting for the selected item, as well as alternate setting(s).

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

Press SELECT/ENTER to confirm your selection.

Some items require additional steps.

Fress 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. Either 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 this unit's Digital Audio Output according to the type of audio system you use.

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 equipment 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 system.



#### TV Output Select



It is used to select the video output source, either S-VIDEO OUT jack or COMPONENT VIDEO OUT jacks.

S-Video: Select when you use S-VIDEO jack for TV

**Component**: Select when you use COMPONENT VIDEO OUT jacks for TV connection.



## Before Operation (Cont'd) - DVD part

#### **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.

#### **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.

#### Pseudo PAL On/Off

On: A NTSC DVD disc can be played back with the PAL colour system TV set, depending on the disc.

Off: A NTSC DVD disc cannot be played back with the PAL colour system TV set.

#### 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.

#### **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.



- Select "Rating" using the ▲/▼ buttons on the setup menu.
- While "Rating" is selected, press ►.
- Select a rating from 1 to 8 using the A/V 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.
- 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.
- Press SELECT/ENTER to confirm your rating selection, then press SETUP to exit the menu.

## **Note**

When you have already entered a password;

Enter 4-digit password using the numerical buttons to confirm the personal 4-digit security password, then press SELECT/ENTER.

## Before Operation (Cont'd) - DVD part

#### Setting your password (DVD only)



If you change the rating level to "7" or lower, you must enter a 4-digit "password" to prevent playback of discs with higher ratings.

Select "Password" using the ▲/▼ buttons on the setup menu, then press ▶.



Input a 4-digit password and press SELECT/ENTER.

Example: 1234

Do not forget your password.

Input the 4-digit password again and press SELECT/ENTER to verify.

Setting is finished.

 The rating is locked. Any discs whose rating is higher than the setting cannot be played back unless the correct password is entered.

#### To change/clear memorized password

**1** At the SETUP screen, press ▼ to select "Password" and press ▶.

nput your password and press SELECT/ENTER.



To change or clear your password, press ▲/▼ to select the "Change" or "Clear" and press SELECT/ENTER.

To change the rating level/password, follow the steps on page 18-19 again.

#### To clear your 4-digit password

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

#### At the SETUP screen

- **1** Press ▼ to select "Password" item.
- **2** Enter 6-digit number "210499" and then press SELECT/ENTER.

The 4-digit password is cleared.

3 Enter a new password Refer to "Setting your password" section on the left.

## Operation with tape

## 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.

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.

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.

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  $\blacktriangle$  or  $\blacktriangledown$ .

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.

Press i to remove the menus from the TV screen.

#### 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.



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).

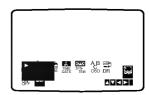
Repeatedly press CM SKIP to skip:

- 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.
- Press ◀ or ▶ to select OPR.
- Press OK.



Press ▲ or ▼ repeatedly to select: OFF, SOFT or SHARP.

Please note you may only set OPR when playing a tape.

Press i return to screen.

## Operation with tape

## **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.

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

- 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.
- If you wish to record directly from the AUDIO L/R (VHS IN 1)/ VIDEO (VHS IN 1) or AUDIO 2 (L/R)/ VIDEO 2 terminals repeatedly press **AV** until the socket you wish to record from is displayed.

**AV 1** for recording from AUDIO L/R (VHS IN 1)/VIDEO (VHS IN 1) terminals on the rear of your unit

**AV 2** for recording from AUDIO 2 (L/R)/ VIDEO 2 terminals on the front of your unit.

- 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.
- 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.

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.

## Operation with tape

## Timer recording using On Screen Display

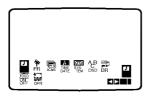
You may set up to seven timer record events within one month of the current date.

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.

Insert a video cassette with protection tab into your

The video cassette should have the window side facing up and the arrow facing away from you.

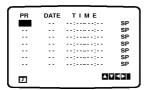
Press ◀ or ▶ to select REC. Press OK.





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

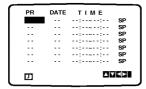
Press ◀ to delete the event.



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 L/R (VHS IN 1)/ VIDEO (VHS IN 1) or AUDIO 2 (L/R)/VIDEO 2 on the front or from the back of your unit, press AV to select for correct display (AV1 or AV2).

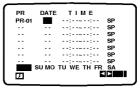


Press the numbered buttons to enter the date of the programme

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

**DLY** To record every day (except Saturday and Sunday) at the same time.

Weekly To record at the same time every week.



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 ▼.

$\overline{}$			$\overline{}$
PR	DATE	TIME	
PR-01	16	19:00~20:	SP
		:	SP
		::	SP
		:	SP
		::	SP
		::	SP
		:	SP
四			

Press ▶ to select the recording speed. Press ▲ or ▼ to select the desired tape speed (SP or LP).

PR	DATE	TIME	
PR-01	16	19:00~20:00	
		(	SP
		::	SP
卫			722

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

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 A 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.

Examplé:

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

(In this case, Programme 1 will be recorded in its entirety, but only the last 30 minutes of Programme 2 will be recordéd.)



## Playing a disc

## **T** Getting to play **●**



- Turn on the TV and select the video input source connected to this unit.
- When you want to enjoy the sound of discs or from the audio system, turn on the audio system and select the input source connected to this unit.

## 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.

#### Press OPEN/CLOSE to close the tray.

Playback starts automatically. If playback does not start, press PLAY.

In some cases, the disc menu might appear instead.

## When the 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 play-

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 18).
- DVDs may have a region code.
- Your player will not play discs that have a region code different from your unit. The region code for this unit is 5 (five).

#### **General Features**

#### Note

Unless stated, all operations described are based on remote control use. Some operations can be carried out using the setup menu.

#### Moving to another TITLE





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 numerical button (0-9) to select a title number.

#### Moving to another CHAPTER/TRACK









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 BACKWARD ◄◄ or FORWARD ►►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 numerical buttons (0-9).

## **Note**

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

#### Slow Motion









1 Press BACKWARD ► or FORWARD ► during pause.

This unit will enter SLOW mode.

- 2 Use the BACKWARD ► or FORWARD ► to select the required speed: ► 1/16, ► 1/8, ► 1/4 or
  - **◄I** 1/2 (backward), or **I▶** 1/16, **I▶** 1/8, **I▶** 1/4 or
  - **▶** 1/2 (forward).

With a Video CD, the Slow Motion changes: ▶ 1/16,

- **▶** 1/8, **▶** 1/4 (Forward only)
- 3 To exit slow motion mode, press PLAY.

## Note

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



## General Features (cont'd)

#### Still Picture and Frame-by-frame playback



- Press PAUSE/STEP during playback.
   This unit will now go into PAUSE mode.
- 2 You can advance the picture frame by frame by pressing PAUSE/STEP repeatedly on the remote control.

#### Search



- 1 Press and hold BACKWARD ►► or FORWARD ►► for about two seconds during playback. The player will now go into SEARCH mode.
- 2 Press and hold BACKWARD ► or FORWARD ► 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). With a Audio CD, the Search speed changes : ►►X2 (Forward only)

3 To exit SEARCH mode, press PLAY.

# Repeat 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.

## **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









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







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 numerical 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.

#### 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 two 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 on multi-angle scenes.

## General Features (cont'd)

#### 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 during playback.
- 2 Press ▲/▼ to select NORM.
- 3 Press ◆► repeatedly until the desired sound is selected.

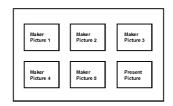
#### Marker Search



You can start playback from a memorized point. Up to five 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 five Marker points on a disc.

#### To Recall or clear a Marked Scene

- 1 During disc playback, press SEARCH. The MARKER SEARCH menu will appear on the screen.
- 2 Press ◆►/▲/▼ to select a Marker that you want to recall or clear.
- 3 Press PLAY or SELECT/ENTER to recall a marker. Or press CLEAR to clear a marker. Play resumes from the point corresponding to the selected marker, or the selected marker is cleared.
- 4 To remove the MARKER SEARCH menu, press PLAY or SELECT/ENTER.

#### Random play







## **Note**

This function only works with karaoke DVD and with audio CD discs. Random does not work with DVD movies.

You can playback titles, or tracks in random order. (Random playback)

The DVD player automatically selects the titles in a DVD video karaoke disc only and plays them back random.

#### Random play (DVD)

- 1 Press RANDOM during stop.
  The DVD player starts random playback.
- If you press RANDOM during normal playback, the DVD player will randomly select another title and begin random playback immediately.
- 2 To resume normal playback, press RANDOM.

#### Random play (VCD/CD)

The player plays the tracks on the disc in random order

- 1 Press RANDOM during stop.
  - The random playback screen appears on the TV screen.
- If you press the RANDOM button during normal playback, the DVD player immediately selects another track and begins random playback.
- 2 To resume normal playback, press RANDOM during random playback.

## Notes Notes

- Random playback may not be possible on certain discs or VCDs (Version2.0).
- If you press the FORWARD ► button during random playback, the DVD player goes to another track randomly and starts playback.

#### 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 DISC MENU. Then, press the appropriate numerical button to select an item. 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





If the disc contains sequences recorded from different camera angles, the angle icon blinks on the display. You can then change the camera angle if you wish.

 Press ANGLE repeatedly during playback to select a desired angle.

The number of the current angle appears on the display.

#### Subtitles





Press SUBTITLE repeatedly during playback to see the different subtitle languages.

## **Note**

If  $\bigcirc$  appears, the feature is not available on the disc.

#### Changing the Audio Language



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

## Programmed Playback with CD and Video CD



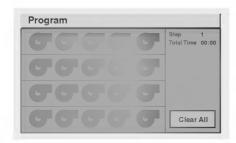


Program allows you to store your favorite tracks for a particular disc in the player memory.

Program can contain 20 tracks.

# Press PROGRAM during playback or in the stop

The Program menu will appear.



Press PLAY or PROGRAM to exit the Program menu.

Press ▲/▼/◀▶ and press the numeric button(s), to select the desired track number.

Repeat step 2 to place additional tracks on the Program menu.



#### Press PLAY or SELECT/ENTER to start.

Playback begins in the order in which you programmed the tracks.

Playback stops after all of the tracks on the Program menu have played once.

#### **Repeat Programmed Tracks**

- To repeat the track currently playing, press REPEAT. The Repeat Track icon appears on the TV screen.
- To repeat all tracks of program menu, press REPEAT a second time.

The Repeat All icon appears on the TV screen.

To exit Repeat mode, press REPEAT a third time. The Repeat Off icon appears on the TV screen.

#### **Erasing a Track from Program menu**

1 Press PROGRAM during playback or in the stop mode.

The Program menu will appear.

- 2 Use ▲/▼/◀▶ to select the track that you wish to erase from the Program menu.
- 3 Press CLEAR.

The track will be erased from the Program menu.

4 Press PLAY or SELECT/ENTER.

#### **Erasing the Complete Program menu**

1 Press PROGRAM during playback or in the stop mode.

The Program menu will appear.

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.

3 Press PLAY or SELECT/ENTER.

## **Operation with MP3 Disc**

## **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 compatible 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.
- 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.
- File names should be named using 8 letters or less and must incorporate ".mp3" extension e.g. "\*\*\*\*\*\*\*\*\*.MP3".
- 8. Do not use special letters such as "\_?!><+\*}{ [@ ];;V.," etc.
- 9. Total number of files on the disc should be less than
- 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).

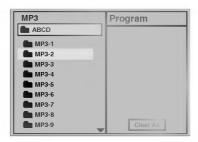
Customers should also note that permission is required in order to download MP3 files and music from the Internet. Our company has no right to grant such permission. Permission should always be sought from the copyright owner.

## Playing an MP3 disc

This unit can play MP3 format recordings on CD-ROM, CD-R or CD-RW discs.

Before playing MP3 recordings, read the notes of MP3 Recordings on the left.

**1 Load an MP3 disc.** The MP3 menu is displayed.



- Press ▲/▼ buttons to select the directory where MP3 files that you want to play are located and then press SELECT/ENTER.
- Press ▲▼ button to select the desired MP3 file of the selected directory on your disc.

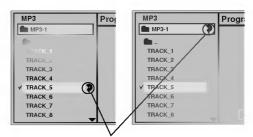
  If you want to return to the previous menu, press the RETURN button.
- Press SELECT/ENTER or PLAY to start playback of a file.

#### For your reference

- Press FORWARD → or BACKWARD ← to play the next file or previous file during playback.
- Press TITLE to move to 1st page of current directory during playback and press TITLE again to move to the next page within 5 seconds.
- Press MENU to move to the Root Directory during playback.

#### To play an MP3 file repeatedly

- If you press REPEAT button once during play, the current MP3 file will play repeatedly.
- If you press REPEAT button twice during play, the directory will play repeatedly.
- If you press REPEAT button three times, the repeat play will be cancelled.



REPEAT symbol

## Programmed Playback with MP3 disc

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

Program can contain 60 tracks.

Follow steps 1 to 2 on previous page.

Select an MP3 file to program with ▲/▼.

Press PROGRAM button to add an MP3 file to the program list.

- · Repeat steps 2 3 to select another track.
- · Up to 60 files can be programmed.

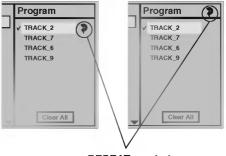


Press ▶ button and select the desired MP3 file and press SELECT/ENTER or PLAY button to play.

If you want to enter the main menu, press ◀ button.

#### To play a programmed MP3 file repeatedly

- If you press REPEAT button once during play, the current MP3 file will play repeatedly.
- If you press REPEAT button twice during play, the all MP3 files on the program list will play repeatedly.
- If you press REPEAT button three times, the repeat play will be cancelled.



**REPEAT symbol** 

#### **Erasing a Track from Program list**

- 1 Press ▶ to move to the Program list.
- 2 Use ▲/▼ to select the track that you wish to erase from the Program list.
- 3 Press CLEAR. The track will be erased from the Program list.

#### **Erasing the Complete Program List**

- 1 Press ▶ to move to the Program list.
- 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.

## **Additional Operation - VCR part**

## 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.

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.

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.

Press CLK/CNT.
Press CLEAR to s

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.

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.

Press C.LOCK.

**on** will appear in the display window. None of the buttons on the front of your VCR will work.

If any buttons on the front of your unit are pressed  $\pmb{\sigma} \pmb{\pi}$  will flicker in the display window for a few seconds.

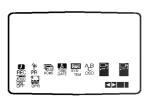
Press C.LOCK again to switch off the child lock.

on 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.

Press i.
Press ◀ or ▶ to select DR.
Press OK.





- 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

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.

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.

Release ez REPEAT at the point where repeat play is to start.

The holding section is replayed twice automatically.

## **Note**

 Pressing ez REPEAT again during repeat play, will return to normal play.

## **Additional Operation-VCR part**

## **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.



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**.

## **Additional Operation-DVD part**

#### **Last Condition Memory**



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



#### Load the DVD that was memorized.

It will appear on the TV screen as below.

 If the screen is left for more than 10 seconds, playback will start from the beginning of the title automatically.



# Press ◆▶ to select "YES" and press SELECT/ENTER.

The memorized settings are automatically recalled.

## **Notes**

- Settings are stored in memory for use any time.
- You can store settings for up to 1 DVD in memory. If you memorize settings for more than 1 DVD previously memorized settings are erased in order from the last recently memorized settings. Subsequently, if you try to call up these previously memorized settings, you will get the latest settings that have taken their place.
- Switching of the audio mode etc., is automatic on some discs.
- This unit does not store settings in memory, if you remove the disc from this unit or switch power to this unit OFF when DVD or title menu is displayed on the TV screen.

#### Screen Saver

The screen saver picture appears when you leave this unit in stop mode for about five minutes.





## **Special Recording**

## 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.

## **Notes**

- You must perform the ACMS (Automatic Channel Memory System) before starting a copy. (see p. 13)
- If the DVD is NTSC disc, you must set Pseudo PAL to Off (see page 18).
- If the DVD you are attempting to copy is copy protected, you may not be able to copy the disc.

#### Insert Disc

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

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

#### 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.

#### Stop the Copy Process

When the DVD is finished playing, press the VCR 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.

## **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.

- VCR A should be connected to the AUDIO L/R (VHS IN 1)/VIDEO (VHS IN 1) on the rear panel of your VCR or AUDIO 2 (L/R)/VIDEO 2 on the front panel of your VCR.
- Insert the recorded tape into VCR A and a blank tape into VCR B.
- To start recording, press the REC/ITR on VCR B and PLAY on VCR A.
- When you want to finish copying, press the STOP on both video recorders.

## **Troubleshooting**

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 10.
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, color system and Regional code.)
	The disc is placed upside down.	Place the disc with the playback side down.
	The disc is not placed within the guide.	Place the disc on the disc tray correctly inside the guide.
	The disc is dirty.	Clean the disc.
	The Rating level is set.	Cancel the Rating function or change the rating level.
The 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.

## **Language Code List**

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

## Specification

#### General

AC 110-240V, 50/60 Hz Power requirements

Power consumption 23W

Dimensions (approx.) 430 X 97.5 X 360 mm (w/h/d)

Mass (approx.) 5.4 kg

5°C to 35°C (41°F to 95°F) Operating temperature

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.

PAL/NTSC Signal system

Frequency response DVD (PCM 96 kHz): 2 Hz to 44 kHz

DVD (PCM 48 kHz): 2 Hz to 22 kHz

CD: 2 Hz to 20 kHz

Signal-to-noise ratio More than 100dB (ANALOG OUT connectors only)

Harmonic distortion Less than 0.008% More than 95 dB (DVD) Dynamic range

More than 95 dB (CD)

Wow and flutter Less than detected value (±0.001% W PEAK)

Inputs

Audio -6.0dBm, more than 47 kohms Video 1.0 Vp-p, 75 ohms, unbalanced

**Outputs** 

VIDEO OUT 1 Vp-p 75 ohms, sync negative

COMPONENT VIDEO OUT (Y) 1.0 V (p-p), 75  $\Omega$ , negative sync., RCA jack x 1

(Pb)/(Pr) 0.7 V (p-p), 75 Ω, RCA jack x 2

S-VIDEO OUT (Y) 1.0 V (p-p), 75  $\Omega$ , negative sync., Mini DIN 4-pin x 1

(C) 0.3 V (p-p) 75 ohms

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)

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• Design and specifications are subject to change without notice.



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