

DVD PLAYER/ VIDEO CASSETTE RECORDER

OWNER'S MANUAL

MODEL: VLK9320W















PROGRESSIVE S C A N



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



CAUTION SK OF ELECTRIC SHOCK



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



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



The exclamation 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.

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

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: VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED.

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.

CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 625 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 625p DVD PLAYER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.

SERIAL NUMBER: The serial number is found on the back
of this unit. This number is unique to this unit and not avail-
able to others. You should record requested information here
and retain this guide as a permanent record of your purchase.
Model No
Serial No

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. VCR Button

Press the VCR button on the remote control when you want to control the VCR.

The VCR indicator will light on the front panel display to show that the VCR is selected.

4. DVD/VCR Button

Press the DVD/VCR button on the front panel to toggle control between the DVD and the VCR.

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Introduction

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

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

Symbol Used in this Manual



The lightning flash symbol alerts you to the presence of dangerous voltage within the product enclosure that may constitute a risk of electric shock.



The exclamation point alerts you to the presence of important operating and maintenance / servicing instructions.



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

Note:

Indicates special notes and operating features.

Indicates tips and hints for making the task easier.

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

DVD DVD and finalized DVD±R/RW

Audio CDs

MP3 Discs

WMA Discs

JPEG Discs

DivX Discs

About the ○ **Symbol Display**

" \odot " may appear on your TV display during operation and indicates that the function explained in this owner's manual is not available on that specific DVD video disc.

Notes on Discs

Handling Discs

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



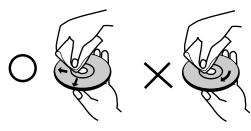


Storing Discs

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

Cleaning Discs

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



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

Selecting the Viewing Source

You must select one of your output sources (DVD or VCR) to view on the TV screen.

- · If you want to view DVD deck output source: Press DVD until DVD indicator in the display window lights and output source of DVD deck is viewed on the TV screen.
- · If you want to view VCR deck output source: Press VCR until VCR indicator in the display window lights and output source of VCR deck is viewed on the TV screen.

- If you insert a disc while the DVD+VCR is in the VCR mode, the DVD+VCR will switch to DVD mode automatically.
- If you insert a cassette tape without prevention tab while the DVD+VCR is in the DVD mode, the DVD+VCR will switch to VCR mode automatically.

Types of Playable Discs

VIDEO	DVD (8 cm / 12 cm disc)
DIGITAL AUDIO	Audio CD (8 cm / 12 cm disc)

In addition, this unit plays DivX file, DVD -R, DVD +R, DVD -RW, DVD +RW and CD-R / CD-RW that contains audio titles, MP3, WMA, and/or JPEG files.



This indicates a product feature that is capable of playing DVD-RW discs COMPATIBLE recorded with Video Recording format.

Notes:

- · Depending on the conditions of the recording equipment or the CD-R/RW (or DVD -R, DVD +R, DVD -RW, DVD +RW) disc itself, some CD-R/RW (or DVD -R, DVD +R, DVD -RW, DVD +RW) discs cannot be played on the unit.
- · Do not attach any seal or label to either side (the labeled side or the recorded side) of a disc.
- · Do not use irregularly shaped CDs (e.g., heart-shaped or octagonal) since they may result in malfunctions.

Notes on DVDs

Some playback operations of DVDs may be intentionally programmed by software manufacturers. This unit plays DVDs according to disc content designed by the software manufacturer, therefore some playback features may not be available or other functions may be added.

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

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

Regional code

This DVD player is designed and manufactured for playback of region "2" encoded DVD software. This unit can play only DVD discs labeled "2" or "ALL".



Notes on Regional Codes

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

Disc-related terms

DVD ±R / DVD ±RW

DVD -R and DVD +R are two different standards for recordable DVD drives and discs. This format allows information to be recorded onto the DVD disc only once. DVD +RW and DVD -RW are two standards for re-writable media, meaning the DVD content can be erased and re-recorded. Single-sided discs can hold 4.38 Gigabytes and double-sided discs hold twice as much. There are no dual layer single sided recordable discs.

MPEG

MPEG is an international standard for video and audio compression. MPEG-1 is used in encoding video for multichannel surround sound coding such as PCM, Dolby Digital, DTS and MPEG audio.

MP3

MP3 is a popular compression format used for digital audio files that yields very high near-CD quality.

$MM\Delta$

Windows media audio file. A type of coding / decoding developed by Microsoft Corp.

JPEG

Joint Pictures Expert Group. JPEG is a compressed file format that allows you to save images with no limit on the number of colors.

DivX

DivX is the name of a revolutionary new video codec which is based on the new MPEG-4 compression standard for video. You will be able to play DivX movies using this DVD player.

Title (DVD video discs only)

A title is generally a distinct section of a DVD disc. For example the main feature could be title 1, a documentary describing how the film was made could be title 2, and cast interviews could be title 3. Each title is assigned a reference number enabling you to locate it easily.

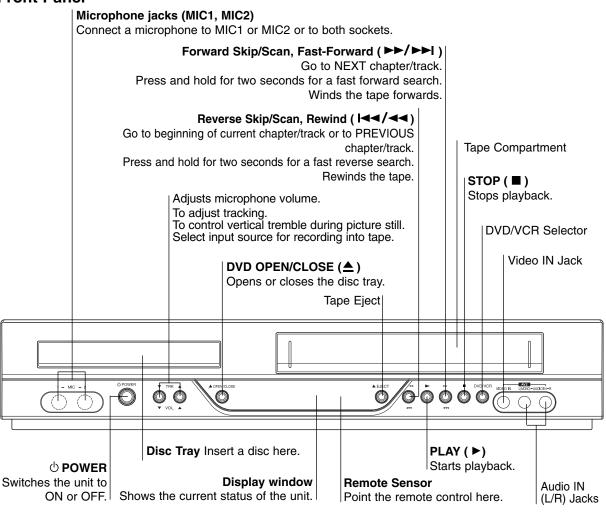
Chapter (DVD video discs only)

A chapter is a segment of a title such as a scene in a film or one interview in a series. Each chapter is assigned a chapter number, enabling you to locate the chapter you want. Depending on the disc, chapters may not be recorded.

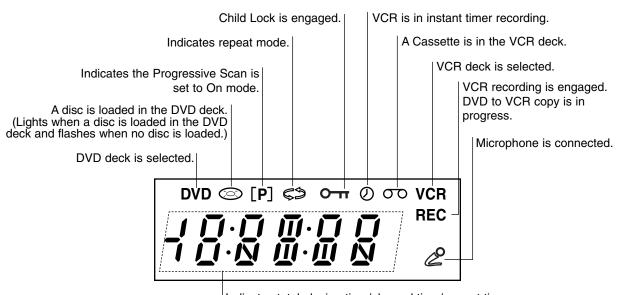
Track

A distinct element of audiovisual information, such as the picture or sound track for a specific language (DVD), or a musical piece on a audio CD. Each track is assigned a track number, enabling you to locate the track you want. DVD discs allow one track of several tracks of audio.

Front Panel



Display Window



Indicates total playing time/elapsed time/current time

Remote Control

POWER

Switch this unit ON or OFF. **DVD/VCR** select button Selects operational mode of remote control.

0-9 numerical buttons

Select numbered items in a menu.

KARAOKE

Accesses or removes KARAOKE menu.

BACKWARD / FORWARD (**◄**◀ / ▶▶)

- DVD: Search backward or forward. - VCR: Rewinds the tape during the STOP mode, for fast reverse picture search and Advances the tape during the STOP mode, fast forward picture search.

PAUSE/STEP (II) •

Pause playback temporarily / press repeatedly for frame-by-frame playback.

PLAY (▶) •

Starts playback.

STOP (■) •

Stops playback. **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

▲ ▼ (up/down)

Select input source for recording into tape.

TRK(+/-)

 To adjust tracking. - To control vertical tremble during picture still.

ENTER/OK

Acknowledge menu selection.

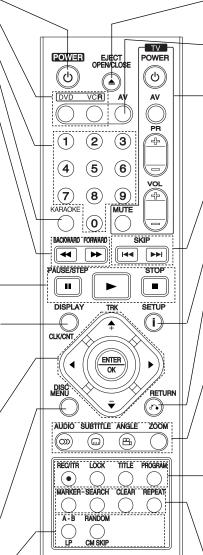
DISC MENU Access menu of a DVD disc.

A-B/LP •

- Repeat sequence.
- Select the recording speed of the tape.

RANDOM/CM SKIP •

- Play tracks in random order. - CM SKIP



OPEN/CLOSE **EJECT**

- Open or close the the disc tray.
- Tape Eject.

Select input source for recording into tape.

TV Control Buttons

(see p. 30)

TV POWER: Turns on or off the TV. TV AV: Selects the TV's source.

TV PR +/-: Selects TV's channel.

TV VOL +/-: Adjusts TV's volume. **MUTE:** Turns on or off TV sound.

SKIP (I◄◀ / ▶►I)

Go to next chapter or track. Returns to beginning of current chapter or track or go to previous chapter or track.

SETUP/i

Access or remove setup menu.

RETURN

Hides or displays the help menu while watching JPEG picture in full screen.

AUDIO

Select an audio language (DVD).

SUBTITLE

Select a subtitle language.

ANGLE

Select DVD camera angle if available • ZOOM

Enlarge video image.

• REC/ITR

Record your input sources into tape.

LOCK (Child Lock)

Switch the Child Lock on and off.

• TITLE

Display the title menu of the disc if available.

PROGRAM

Access or remove program menu.

MARKER

Mark any point during playback.

• SEARCH

Display MARKER SEARCH menu.

• CLEAR

- Clear a track number on the program menu or a mark on the MARKER SEARCH menu.

Reset tape counter to zero.

REPEAT

Repeat chapter, track, title, all.

Remote Control Operation

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



Do not mix old and new batteries and never mix different types of batteries such as standard, alkaline, etc.

Remote control battery installation



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

Rear Panel

AUDIO IN (Left/Right) (VCR IN AV1)

Receive the audio signals from an external source to VCR.

AUDIO OUT (Left/Right) (DVD/VCR OUT)

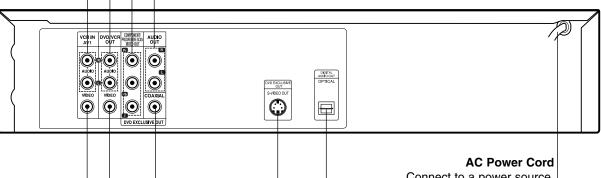
Connect to an amplifier, receiver or stereo system.

COMPONENT/PROGRESSIVE SCAN VIDEO OUT (Y Pb Pr) (DVD EXCLUSIVE OUT)

Connect to a TV with Y Pb Pr inputs.

AUDIO OUT (Left/Right) (DVD EXCLUSIVE OUT)

Connect to an amplifier, receiver or stereo system.



Connect to a power source.

OPTICAL (Digital audio out jack) (DVD EXCLUSIVE OUT)

Connect to digital (optical) audio equipment.

S-VIDEO OUT (DVD EXCLUSIVE OUT)

Connect to a TV with S-Video input.

COAXIAL (Digital audio out jack) (DVD EXCLUSIVE OUT)

Connect to digital (coaxial) audio equipment.

VIDEO OUT (DVD/VCR OUT)

Connect to a TV with video inputs.

VIDEO IN (VCR IN AV1)

Receive the video signals from an external source to VCR.



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

Installation and Setup

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 11.

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 & Decoder

- Make one of the following connections, depending on the capabilities of your existing equipment.
- When using the COMPONENT/PROGRESSIVE SCAN VIDEO OUT jacks, set TV's input to COMPONENT VIDEO.

 When using the S-VIDEO OUT jack, set the TV's input to S-VIDEO.

Basic connection (AV)

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

DVD exclusive out connection

- Component Video (Color Stream®) connection
- Connect the COMPONENT/PROGRESSIVE SCAN VIDEO OUT jacks on the DVD Player to the corresponding in jacks on the TV using the Y Pb Pr cable.
- Connect the Left and Right AUDIO OUT jacks of the DVD Player to the audio left/right in jacks on the TV using the audio cables.

S-Video connection

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

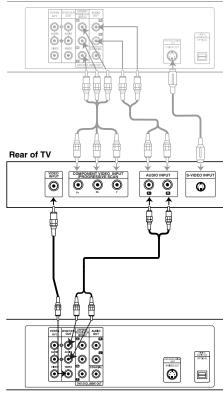
Progressive Scan connection

- If your television is a high-definition or "digital ready" television, you may take advantage of the DVD Player's progressive scan output for the highest video resolution possible.
- If your TV does not accept the Progressive Scan format, the picture will appear scrambled if you try Progressive Scan on the DVD Player.
- Connect the COMPONENT/ PROGRESSIVE SCAN VIDEO OUT jacks on the DVD Player to the corresponding in jacks on the TV using the Y Pb Pr cable.
- Connect the Left and Right AUDIO OUT jacks of the DVD Player to the audio left/right in jacks on the TV using the audio cables.

Notes:

- Set the Progressive to "On" on the setup menu for progressive signal, see page 15.
- Progressive scan does not work with the analog video connections (yellow VIDEO OUT jack) or S-VIDEO connection.

Rear of this unit (DVD exclusive out connection)



Rear of this unit (Basic connection)

Note:

If the TV has an S-video input, connect the DVD player with the S-video cable. When using an S-video cable, do not connect the yellow video cable.

Connecting to Optional Equipment

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

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)

- Connect this unit's DIGITAL AUDIO OUT jack (COAXIAL or OPTICAL) to the corresponding in jack on your amplifier. Use a digital (coaxial or optical) audio cable.
- 2. You will need to activate this unit's digital output. (See "AUDIO" on page 16).

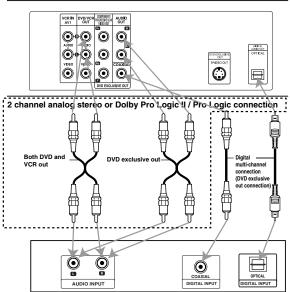
Digital Multi-channel sound

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



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.

Before Operation-VCR part

Setting the clock Manually

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

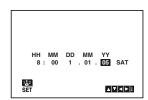
Press i.
 Press ◀ or ▶ to select SET.

 Press OK.

when you enter the year.



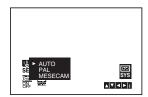
2. Use the ▲ or ▼ on the remote control to alter the HOURS, MINUTES, DAY, MONTH and YEAR. Please note your VCR uses a 24 hour clock. e.g. 1pm will be displayed as 13:00. The day of the week will appear automatically



- 4. Press i.

To set the colour system

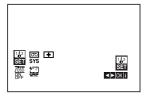
- 1. Press i.
- 2. The main menu will appear on the TV screen.
- 3. Press ◀ or ▶ to select the SYS and press OK.
- Press ▲ or ▼ to select according to the COLOUR system used.
- 5. Press i to remove the menus from the TV screen.



How to using the main menu

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

- 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.



- SET Date & clock setting (see p. 12).
- SYS To set the Colour TV System (see p. 12).
- **ID** (**Dr.**) To check a problem with your VCR (see p. 30).
- F.OSD ON/OFF To display the operational mode of your VCR (see p. 30).
- (OPR) To improve the playback picture (see p. 19).

Tip:

You can change the menu language on the DVD setup menu. (See the Menu Language on page 14.)

- 3. Press ◀ and ▶ to select the desired menu. Press **OK** and press ▲ or ▼ to select.
- 4. Press i to remove the menus from the TV screen.

Before Operation-DVD part

On-Screen Display

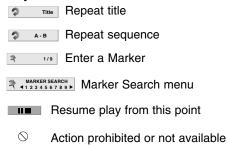
You can display the general playback status on the TV screen. Some items can be changed using the menu. To use the on-screen display:

- 1. Press DISPLAY during playback.
- Press ▲ / ▼ to select an item.
 The selected item is highlighted.
- Press ◀ / ▶ to change the setting. You can also use the number buttons if appropriate (e.g. inputting the title number). For some functions, press ENTER to execute the setting.

Notes.

- Some discs may not provide all of the features shown below.
- If no button is pressed for 10 seconds, the on-screen display disappears.

Playback Status/Restrictions



Example: On-Screen Display during playing DVD Video

Items			Selection Method
Title Number	⊕ •	1/3▶	√ / ►, Numbers ENTER
Chapter Number	II	1 / 12 ▶	
Time search	(b)	0:20:09	Numbers, ENTER
Audio language and Digital Audio Output mode	00 •	1 ENG □□D ► 3/2.1CH	√ / ► or AUDIO
Subtitle language	(ABC) ◀	1 ENG ▶	∢ / ▶ or SUBTITLE
Angle	100 4	1/3 ▶	√ / ► or ANGLE
Sound	O 4	3D SUR ▶	∢ /▶

Example: On-Screen Display during playing divx movie disc

Items			Selection Method
Track Number	⊕ 4	1/3▶	√ / ►, Numbers ENTER
Time search	•	0:20:09	Numbers, ENTER
Audio language and Digital Audio Output mode	10 4	1 MP3 2/0 CH	√ / ► or AUDIO
Subtitle language	ABC ◀	1 ENG ▶	√ / ► or SUBTITLE
Sound	. □ 4	3D SUR ▶	∢ /▶

Initial Settings

By using the Setup menu, you can make various adjustments to items such as picture and sound. You can also set a language for the subtitles and the Setup menu, among other things. For details on each Setup menu item, see pages 14 to 18.

To display and exit the Menu:

Press SETUP to display the menu. A second press of SETUP will take you back to initial screen.

To go to the next level:

Press ▶ on the remote control.

To go back to the previous level:

Press ◀ on the remote control.

General Operation

- 1. Press SETUP. The Setup menu appears.
- 2. Use ▲ / ▼ to select the desired option then press ▶ to move to the second level. The screen shows the current setting for the selected item, as well as alternate setting(s).
- 3. Use ▲ / ▼ to select the second desired option then press ▶ to move to the third level.
- 4. Use ▲ / ▼ to select the desired setting then press ENTER to confirm your selection. Some items require additional steps.
- Press SETUP or

 to exit the Setup menu.

LANGUAGE



Menu Language

Select a language for the Setup menu and on-screen

Disc Audio / Subtitle / Menu DVD



Select the language you prefer for the audio track (disc audio), subtitles, and the disc menu.

Original: Refers to the original language in which the disc was recorded.

Other: To select another language, press number buttons then ENTER to enter the corresponding 4-digit number according to the language code list in the reference chapter. If you enter the wrong language code, press CLEAR.

DISPLAY



TV Aspect DVD

4:3: Select when a standard 4:3 TV is connected.

16:9 Wide: Select when a 16:9 wide TV is connected.

Display Mode DVD

Display Mode setting works only when the TV Aspect mode is set to "4:3".

LetterBox: Displays a wide picture with bands on the upper and lower portions of the screen.

Panscan: Automatically displays the wide picture on the entire screen and cuts off the portions that do not fit.

Progressive Scan

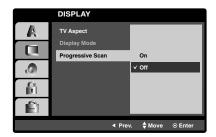
Progressive Scan Video provides the highest quality pictures with less flickering.

If you are using the Component Video jacks for connection to a TV or monitor that is compatible with a progressive scan signal, set Progressive Scan to On.

To turn On progressive scan:

Connect component out of this unit to the input of your monitor/television, set your television or monitor to Component Input.

 Select "Progressive Scan" on the DISPLAY menu then press ►.



- 2. Select "On" using the ▲ / ▼ buttons.
- 3. Press ENTER to confirm your selection. The confirm menu will appear.

Note:

If your TV does not accept the Progressive Scan format, the picture will appear scrambled if you try Progressive Scan on the DVD Player.

- When the confirm menu appears on your screen Cancel is highlighted as default. Use the ◀ button to highlight Enter.
- Pressing ENTER will set this unit to Progressive scan mode.

Caution:

Once the setting for progressive scan output is entered, an image will only be visible on a progressive scan compatible TV or monitor. If you set Progressive Scan to On in error, you must reset the unit.

- 1) Remove any disc from the unit and close the disc tray. See that "DISC" is displayed on the display window.
- Press STOP and hold it for five seconds before releasing it. The video output will be restored to the standard setting and a picture will once again be visible on a conventional analog TV or monitor.

AUDIO

Each DVD disc has a variety of audio output options. Set this unit AUDIO options according to the type of audio system you use.



Dolby Digital / DTS / MPEG DVD DivX

Bitstream: Select "Bitstream" if you connect the DVD Player's DIGITAL OUT jack to an amplifier or other equipment with a Dolby Digital, DTS or MPEG decoder.

PCM (for Dolby Digital / MPEG): Select when connected to a two-channel digital stereo amplifier. DVDs encoded in Dolby Digital or MPEG will be automatically downmixed to two-channel PCM audio.

Off (for DTS): If you select "Off", the DTS signal is not output through the DIGITAL OUT jack.

Sample Freq. (Frequency) DVD

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

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

Check the documentation for your amplifier to verify its capabilities.

Dynamic Range Control (DRC) DVD DivX

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

OTHERS

The PBC, Auto Play and DivX(R) VOD settings can be changed.



PBC

PBC(Playback Control)- Playback control provides special navigation features that are available on some disc. Select [On] to use this feature.

Auto Play DVD

You can set up the DVD Player so a DVD disc automatically starts playing whenever the DVD is inserted. If Auto Play mode is set to On, this DVD player will search for title that has the longest playback time and then play back the title automatically.

On: Auto Play function is active.

Off: Auto Play function is not active.

Notes.

The Auto Play function may not work for some DVDs.

DivX(R) VOD DivX

You can display the DivX DRM (Digital Rights Management) Registration code for your unit only.



The Registration code is used for VOD (Video-On-Demand) service agent. You can purchase or rent an encrypt move file.

Notes:

If you rent the DivX VOD file, it has several options of viewing limits as shown below.

· Display the number which you can watch the file.

View DivX(R) VOD Rental
This rental has 3 views left.
Do you want to use one
of your 3 views now?

(Yes) (No)

· The rental has been expired.

Rental Expired (Done)

· Display the authorization error.

Authorization Error

This player is not authorized to play this video.

(Done)

LOCK (Parental Control)



Rating DVD

Some movies contain scenes that may not be suitable for children to view. Many of these discs contain parental control information that applies to the complete disc or to certain scenes on the disc. Movies and scenes are rated from 1 to 8, depending on the country. Some discs offer more suitable scenes as an alternative.

The parental control feature allows you to block access to scenes below the rating you input, there by preventing your children from being able to view material you believe is unsuitable.

- Select "Rating" on the LOCK menu then press ►.
- To access the Rating, Password and Country Code features, you must input the 4-digit security code you created. If you have not yet entered a security code you are prompted to do so.

Input a 4-digit code and press ENTER. Enter it again and press ENTER to verify. If you make a mistake before pressing ENTER, press CLEAR.

3. Select a rating from 1 to 8 using the ▲ / ▼ buttons.

Rating 1-8: Rating one (1) has the most restrictions and rating eight (8) is the least restrictive.

Unlock

If you select unlock, parental control is not active and the disc plays in full.

Notes:

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

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

Password (Security Code)

You can enter or change password.

- 1. Select Password on the LOCK menu then press ▶.
- Follow step 2 as shown left (Rating). "Change" or "New" is highlighted.
- 3. Enter the new 4-digit code, then press ENTER. Input it again to verify.
- 4. Press SETUP to exit the menu.

If you forget your Security Code

If you forget your security code you can clear it using the following steps:

- 1. Press SETUP to display the Setup menu.
- Input the 6-digit number "210499" and the security code is cleared.
- 3. Enter a new code as described above.

Area Code DVD

Enter the code of the country/area whose standards were used to rate the DVD video disc, based on the list in the reference chapter.

- Select "Area Code" on the LOCK menu then press
 .
- 2. Follow step 2 as shown left (Rating).
- 3. Select the first character using ▲ / ▼ buttons.
- Press ENTER and select the second character using ▲ / ▼ buttons.
- Press ENTER to confirm your country code selection.

Operation

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 TRK + 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
 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 press **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 TRK + or -.

4. Press ➤ to continue playing your tape.

Double speed playback

Press the " (X2)" button during normal playback. The tape will play back at double speed and without sound.

Press the "► (X2)" button to return to playback at normal speed

Picture search:

During playing back press either **FORWARD** or **BACKWARD** and this will enable you to rapidly wind the tape (7 times normal playback) and 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. (REV, PB5-, PB1-, still, SLW, PLAY, 2PLY, CUE). 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 TRK + 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

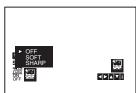
OPR (Optimum Picture Response)

This feature automatically improves playback picture quality by adjusting your VCR to the condition of the tape. Please note that the OPR icon () will only appear in play that mode when playing a tape.

- 1. Press i
- 2. Press ◀ or ▶ to select OPR.
- 3. Press OK.
- 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.



Recording

Your VCR allows you to make recordings connecting to a TV equipped with audio out and video out sockets.

Your VCR start recording immediately for a set period of time (ITR: Instant Timer Recording) 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. Connect the AUDIO(L/R)/VIDEO (VCR IN AV1) on the rear panel of this unit or AUDIO IN (L(MONO)/R)/ VIDEO IN on the front of this unit to the audio out and video out sockets on the TV using the audio and video cables.
- 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. Your unit will switch on automatically. You can also switch it on with the POWER button.
- 3. Select the channel you wish to record with the TV's channel selector.
- 4. Press AV until the socket you wish to record from is displayed.

AV 1 for recording from AUDIO (L/R)/VIDEO (VCR IN AV1) terminals on the rear of your unit. AV 2 for recording from AUDIO IN (L(MONO)/R)/ VIDEO IN terminals 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.
 - SP or LP will be displayed in your VCR display to let you know which you have selected.
- 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. If you press PAUSE/STEP during ITR, this unit will enter the record pause mode and the recording mode will be back to normal recording mode. 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.

7. Press STOP to end recording.

Press **EJECT**.

EJECT will appear on the TV screen for a few

If the end of the tape is reached, your VCR will stop recording automatically, rewind, stop, eject the tape.

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.

Playing a DVD

Playback Setup

- Turn on the TV and select the video input source connected to the DVD player.
- 2. Turn on the audio system (if applicable) and select the input source connected to the DVD player.
- Press OPEN/CLOSE to open the disc tray and load your chosen disc in the tray, with the playback side down.
- Press OPEN/CLOSE to close the tray. Playback starts automatically. If playback does not start, press ►.

In some cases, the disc menu might appear instead:

DVD

Use the $\blacktriangleleft \blacktriangleright \blacktriangle \blacktriangledown$ buttons to select the title/chapter you want to view, then press ENTER to start. Press TITLE or DISC MENU to return to the menu screen.

Notes:

- If parental control is set and the disc is not within the rating settings you must input the password. (See "Lock Menu" on page 18.)
- DVDs may have a region code. Your player does 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 during timer recording standby mode, press POWER and DVD to switch to DVD mode.

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 DVD

When a disc has more than one title, you can move to another title. Press DISPLAY while playback is stopped then the appropriate number (0-9) or use ◀ / ▶ to move to another title.

You can play any title by inputting its number while playback is stopped.

Moving to another CHAPTER/TRACK

DVD DivX

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 or birefly 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 and press ▲ / ▼ to select the chapter/track icon. Then, input the chapter/track number or use ◀ / ►.

Search DVD DivX

- 1. Press **◄** or **▶▶** during playback.
- - DVD, DivX disc; X2, X4, X16 or X100
- To exit SEARCH mode, press ►.

Still Picture and Frame-by-Frame Playback DVD DivX

- Press PAUSE/STEP on the remote control during playback. Advance the picture frame-by-frame by pressing PAUSE/STEP repeatedly.
- 2. To exit still motion mode, press ►.

Slow Motion DVD DivX

- Press PAUSE/STEP (II) during playback.
 The DVD player will now go into PAUSE mode.
- 2. Use ◀◀ or ▶▶ 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).

With a Divx discs, the Slow speed changes: I► 1/16, I► 1/8, I► 1/4 or I► 1/2 (forward).

3. To exit Slow Motion mode, press ►.

Note:

Slow motion playback in reverse is not possible with DivX Discs.

Random Karaoke DVD

- Press RANDOM during playback or in stop mode. The unit automatically begins random playback and RANDOM appears on the TV screen.
- 2. Press RANDOM again to normal.

Tip:

By pressing **>>**I during random playback, the unit selects another title (track) and resumes random playback.

Repeat A-B DVD DivX

To repeat a sequence.

- 1. Press A-B at your chosen starting point. " A * " appears briefly on the TV screen.
- Press A-B again at your chosen end point. "A B" appears briefly on the TV screen and the repeat sequence begins.
- 3. Press A-B again to cancel.

Repeat DVD DivX

You can play a title/chapter/all/track on a disc. Press REPEAT during playback to select a desired repeat mode.

DVD Video Discs - Repeat Chapter/Title/Off

- Chapter: repeats the current chapter.
- Title: repeats the current title.
- Off : does not play repeatedly.

Note:

 If you press >> once during Repeat Chapter (Track) playback, the repeat playback cancels.

3D Surround DVD DivX

To produce a 3D surround effect that simulates multi-channel audio from two stereo speakers (instead of the five+ speakers normally required for multi-channel audio from a home theater system).

- 1. Press DISPLAY during playback.
- Use ▲ or ▼ to select the sound option.
 The sound option will be highlighted.
- Use ◀ or ► to to select "3D SUR".
 To turn off the 3D Surround effect, select "Normal".

Time Search DVD DivX

To start playing at any chosen time on the disc:

- 1. Press DISPLAY during playback. The time search box shows the elapsed playing time.
- 2. Press ▲ / ▼ to select the time clock icon and "-:---" appears.
- Input the required start time in hours, minutes, and seconds from left to right. If you enter the wrong numbers, press CLEAR to remove the numbers you entered. Then input the correct numbers.
- Press ENTER to confirm. Playback starts from the selected time.

Zoom DVD DivX

Use zoom to enlarge the video image.

- 1. Press ZOOM during playback or still playback to activate the Zoom function. The square frame appears briefly in the right bottom of the picture.
- Each press of the ZOOM button changes the TV screen in the sequence: 100% size → 400% size → 1600% size → screen fit mode → 100% size Screen fit mode:

You can change the way the image appears on the screen when you're playing a DVD movie. Press ▲/▼ to select between Normal, Enhanced, and Maximum.

- Use the ◀ ▶ ▲ ▼ buttons to move through the zoomed picture.
- To resume normal playback, press ZOOM repeatedly or press CLEAR button.

Notes:

- Zoom may not work on some DVDs.
- Screen fit mode is available for playing the DVD disc, VR disc and movie file.

Marker Search DVD DivX

To enter a Marker

You can start playback from up to nine memorized points. To enter a marker, press MARKER at the desired point on the disc. The Marker icon appears on the TV screen briefly. Repeat to enter up to nine markers.

To Recall or Clear a Marked Scene

- 1. During disc playback, press SEARCH. The marker search menu appears on the screen.
- 2. Within 10 seconds, press ◀ / ▶ to select a marker number that you want to recall or clear.
- Press ENTER and playback starts from the marked scene. Or, press CLEAR and the marker number is erased from the list.
- 4. You can play any marker by inputting its number on the marker search menu.

Special DVD Features

Checking the contents of DVD discs: Menus
DVDs may offer menus that allow you to access
special features. To use the disc menu, press DISC
MENU. Input the corresponding number or use the ◀
▶ ▲ ▼ buttons to highlight your selection. Then press
ENTER.

Title Menu **DVD**

- Press TITLE. If the current title has a menu, the menu appears on the screen. Otherwise, the disc menu may appear.
- The menu offers features such as camera angles, spoken language and subtitle options, and chapters for the title.
- 3. Press TITLE to exit.

Disc Menu DVD

Press DISC MENU and the disc menu is displayed. Press DISC MENU again to exit.

Camera Angle DVD

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. Note that the number of the current angle appears on the display.

Changing the Audio Language DVD DivX

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

Subtitles DVD DivX

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

Note:

- The subtitle file of the DivX file is displayed only smi, srt and sub.
- If there is no information or there is a code that can not read in the DivX file, "1" or etc. are displayed.

Playing an Audio CD or MP3/WMA Disc

The DVD player can play MP3/WMA formatted recordings on CD-ROM, CD-R, or CD-RW discs.

Audio CD

Once you insert an audio CD a menu appears on the TV screen. Press ▲ / ▼ to select a track then press ► or ENTER and playback starts.



MP3 / WMA

- Press ▲ / ▼ to select a folder, and press ENTER to see the folder contents.
- Press ▲ / ▼ to select a track then press ► or ENTER. Playback starts.



ID3 TAG

- When playing a file containing information such as track titles, you can see the information by pressing DISPLAY. [Song, Artist, Album, Comment, Genre]
- If there is no information, "No ID3 TAG" appear on the menu screen.

Tip:

- If you are in a file list on the MUSIC menu and want to return to the Folder list, use the ▲ / ▼ to highlight ¹— and press ENTER.
- Press DISC MENU to move to the next page.
- On a CD with MP3/WMA and JPEG you can switch MP3/WMA and JPEG. Press TITLE and MUSIC or PHOTO word on top of the menu is highlighted.
- When playing a file containing information such as track titles, you can see the information by pressing DISPLAY.

MP3 / WMA disc compatibility with this player is limited as follows:

- Sampling frequency: within 8 48 kHz (MP3), within 32 - 48kHz (WMA)
- Bit rate: within 8 320kbps (MP3), 32 - 192kbps (WMA)
- The player cannot read an MP3/WMA file that has a file extension other than ".mp3" / ".wma".
- CD-R physical format should be ISO 9660
- If you record MP3 / WMA files using software that cannot create a file system (eg. Direct-CD) it is impossible to playback MP3 / WMA files. We recommend that you use Easy-CD Creator, which creates an ISO 9660 file system.
- File names should have a maximum of 8 letters and must incorporate an .mp3 or .wma extension.
- They should not contain special letters such as / ? *: " <> I etc.
- The total number of files on the disc should be less than 650.

This DVD player requires discs and recordings to meet certain technical standards in order to achieve optimal playback quality. Pre-recorded DVDs are automatically set to these standards. There are many different types of recordable disc formats (including CD-R containing MP3 or WMA files) and these require certain pre-existing conditions (see above) to ensure compatible playback.

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

Audio CD and MP3 / WMA Disc Features

Pause CD MP3 WMA

- 1. Press PAUSE/STEP during playback.
- To return to playback, press ►, ENTER or press PAUSE/STEP again.

Moving to another Track CD MP3 WMA

- Press I◄◄ or ►►I briefly during playback to go to the next track or to return to the beginning of the current track.
- Press ◄
 twice briefly to go 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).

Repeat Track/All/Off CD MP3 WMA

You can play a track/all on a disc.

- 1. Press REPEAT when playing a disc. The repeat icon appears.
- 2. Press REPEAT to select a desired repeat mode.
 - Track: repeats the current track
 - All: repeats all the tracks on a disc.
 - Off(No display): does not play repeatedly.

Note:

If you press ▶►I once during Repeat Track playback, the repeat playback cancels.

Search CD MP3 WMA

- 1. Press **◄** or **▶▶** during playback.
- Press repeatedly to select the required speed: X2, X4, X8 backward or forward.
- To exit SEARCH mode, press ►.

Random CD MP3 WMA

- Press RANDOM during playback or when playback is stopped. Random Playback begins immediately and RANDOM appears on the menu screen.
- To return to normal playback, press RANDOM repeatedly until RANDOM disappears from the menu screen.

Tip:

By pressing **>>** during random playback, the unit selects another track and resumes random playback.

Repeat A-B CD

- To repeat a sequence during disc playback press
 A-B at your chosen starting point. The Repeat icon
 and "A" appear on the menu screen.
- Press A-B again at your chosen end point.
 The Repeat icon and "A-B" appear 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 disappears from the menu screen.

3D Surround CD

To produce a 3D surround effect that simulates multi-channel audio from two stereo speakers (instead of the five+ speakers normally required for multi-channel audio from a home theater system).

- Press AUDIO during playback.
 "3D SUR." appears on the menu screen.
- To return to normal playback, press AUDIO repeatedly until "3D SUR." disappears from the menu screen.

Programmed Playback

The program function enables you to store your favorite tracks from any disc in the player memory. A program can contain 30 tracks.

1. Insert a disc.

Audio CD or MP3/WMA Discs:

AUDIO CD or MUSIC menu appears.

2. Press PROGRAM.

The In mark will appear to the right of the word "Program" on the right side of the menu screen.

Note:

Press PROGRAM again, then the <a> mark will disappear to exit the Program Edit mode.





Audio CD Menu

MP3/WMA Menu

- Select a track on the "List", then press ENTER to place the selected track on the "Program" list. Repeat to place additional tracks on the list.
- Press ►.
 Select the track you want to start playing on the "Program" list.
- Press ➤ or ENTER to start. Playback begins in the order in which you programmed the tracks. Playback stops after all of the tracks on the "Program" list have played once.
- To resume normal playback from programmed playback, select a track of CD (or MP3/WMA) list and then press ►.

Repeat Programmed Tracks

- 1. Press REPEAT when playing a disc. The repeat icon appears.
- 2. Press REPEAT to select a desired repeat mode.
 - Track: repeats the current track
 - All: repeats all the tracks on programmed list.
 - Off(No display): does not play repeatedly.

Note:

If you press ▶▶ once during Repeat Track playback, the repeat playback cancels.

Erasing a Track from Program List

- 1. Press ▶ to move to the "Program" list.
- Use ▲/▼ to select the track that you wish to erase from the "Program" list.
- Press CLEAR. Repeat to erase additional tracks on the list.

Erasing the Complete Program List

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

Note:

The programs are also cleared when the disc is removed.

Viewing a JPEG Disc

Using this DVD Player you can view discs with JPEG files.

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



- If you want to view a particular file, press
 ▲ / ▼ to highlight a file and press ENTER or ►.
 Viewing the file proceeding starts.
 While viewing a file, you can press STOP to move to the previous menu (PHOTO menu).

Slide Show JPEG

Use $\blacktriangle \ \blacktriangledown \ \blacktriangleleft \ \blacktriangleright$ to highlight the \blacksquare (Slide Show) then press ENTER.

Tip:

- There are three Slide Speed options :>>> (Fast), >> (Normal) and > (Slow).
- On a disc with MP3/WMA and JPEG you can switch MP3/WMA and JPEG. Press TITLE and MUSIC or PHOTO word on top of the menu is highlighted.
- Press RETURN, information of file is hidden.

Still Picture JPEG

- 1. Press PAUSE/STEP during slide show. The player will now go into PAUSE mode.
- To return to the slide show, press ➤ or press PAUSE/STEP again.

Moving to another File JPEG

Press ◄ or ► or cursor or or once while viewing a picture to advance to the next or previous file.

Zoom JPEG

Use zoom to enlarge the photo image. (see 23 page)

To rotate picture

Press ▲ / ▼ during showing a picture to rotate the picture clockwise or counter clockwise.

To listen to MP3/WMA music watching picture JPEG

You can display files while listening to MP3/WMA music files recorded on the same disc.

- Insert the disc containing the two types of file in the player.
- 2. Press TITLE to display PHOTO menu.
- 3. Press ▲ / ▼ to select a photo file.
- Use ► / ▼ to select □ icon then press ENTER. Playback starts. The playback will continue until STOP is pressed.

Tip:

To listen to only the desired music watching picture, programmed the desired tracks from the "MUSIC" menu and then proceed as above.

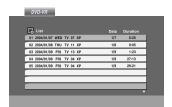
JPEG disc compatibility with this player is limited as follows:

- Depending upon the size and number of JPEG files, it could take a long time for the DVD player to read the disc's contents. If you don't see an on-screen display after several minutes, some of the files may be too large reduce the resolution of the JPEG files to less than 2M pixels as 2760 x 2048 pixels and burn another disc.
- The total number of files and folders on the disc should be less than 650.
- Some discs may be incompatible due to a different recording format or the condition of disc.
- Ensure that all the selected files have the ".jpg" extensions when copying into the CD layout.
- If the files have ".jpe" or ".jpeg" extensions, please rename them as ".jpg" file.
- File names without ".jpg" extension will not be able to be read by this DVD+VCR. Even though the files are shown as JPEG image files in Windows Explorer.

Playing a DVD VR format Disc

This unit will play DVD-R/RW discs recorded using the DVD-Video format that have been finalized using a DVD-recorder.

- This unit will play DVD-RW discs recorded using the Video Recording (VR) format.
- Insert a disc and close the tray. The DVD-VR menu appears on the TV screen.



- Press ▲ / ▼ to select a track then press ► or ENTER and playback starts.
- 3. Press TITLE to move to the list menu.

Note:

- Unfinalized DVD-R/RW discs cannot be played in this player.
- Some DVD-VR disc are made with CPRM data by DVD RECORDER. Player does not support these kinds of discs

What is 'CPRM'?

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

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

Maintenance and Service

Refer to the information in this chapter before contacting a service technician.

Handling the Unit

When shipping the unit

Please save the original shipping carton and packing materials. If you need to ship the unit, for maximum protection, re-pack the unit as it was originally packed at the factory.

Keeping the exterior surfaces clean

- Do not use volatile liquids such as insecticide spray near the unit.
- Do not leave rubber or plastic products in contact with the unit for a long period of time. since they leave marks on the surface.

Cleaning the unit

To clean the player, 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.

Maintaining the Unit

The DVD player is a high-tech, precision device. If the optical pick-up lens and disc drive parts are dirty or worn, the picture quality could be diminished.

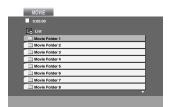
Depending on the operating environment, regular inspection and maintenance are recommended after every 1,000 hours of use.

For details, please contact your nearest authorized service center.

Playing a DivX Movie Disc

Using this DVD Player you can play DivX disc.

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



- Press ▲ / ▼ to select a folder, and press ENTER.
 A list of files in the folder appears. If you are in a file list and want to return to the Folder list, use the ▲ / ▼ buttons on the remote to highlight ♠ and press ENTER.
- If you want to view a particular file, press
 ▲ / ▼ to highlight a file and press ENTER or ►.
- 4. Press STOP to exit.

Tip:

- Press DISC MENU to move to the next page.
- On a CD with MP3/WMA, JPEG and MOVIE file, you can switch MUSIC, PHOTO and MOVIE menu. Press TITLE and MUSIC, PHOTO and MOVIE word on top of the menu is highlighted.

DivX disc compatibility with this player is limited as follows:

- Available resolution size of the DivX file is under 720x576 (W x H) pixel.
- The file name of the DivX subtitle is available by 56 characters.
- If there is impossible code to express in the DivX file, it may be displayed as "_" mark on the display.
- If the number of the screen frame is over 30 per 1 second, this unit may not operate normally.
- If the video and audio structure of recorded file is not interleaved, either video or audio is outputted.
- If the file is recorded with GMC, the unit supports only 1-point of the record level.
 * GMC?

GMC is the acronym for Global Motion Compensation. It is an encoding tool specified in MPEG4 standard. Some MPEG4 encoders, like DivX or Xvid, have this option. There are different levels of GMC encoding, usually called 1-point, 2-point, or 3-point GMC.

Playable DivX file

".avi ", ".mpg ", ".mpeg "

Playable Codec format

● "DIVX3.xx ", "DIVX4.xx ", "DIVX5.xx ", "XVID ", "MP43 ", "3IVX ".

Playable Audio format

- "AC3 ", "DTS ", "PCM ", "MP3 ", "WMA ".
 - Sampling frequency: within 8 48 kHz (MP3), within 32 - 48kHz (WMA)
 - Bit rate: within 8 320kbps (MP3), 32 - 192kbps (WMA)

Additional Features-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.

1. Press CLK/CNT.

Press **CLEAR** to set the counter to 0:00:00.

Press ➤ 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.

Lock (Child Lock)

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

1. Press LOCK.

on and SAFE will appear in the display window. None of the buttons on the front of your unit will work.

If any buttons on the front of your unit are pressed **SAFE** will appear in the display window for a few seconds.

Press LOCK again to switch off the child lock. OFF will appear in the display window.

Video Doctor (Self-Diagnosis)

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

1. Press i.

Press **d** or **b** to select **1**. Press **OK**.

2. Press ▲ or ▼ to check a problem.

HEAD STATUS

- OK
- PLEASE CLEAN:

Clean your video heads.

TAPE STATUS

- RECORDABLE
- NOT RECORDABLE:
 Insert a tape with its protection tab in place.
- 3. Press i to remove the menus from the TV screen.

Hi-Fi Stereo Sound System

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

The choice is STEREO, LEFT, RIGHT and MONO.

Additional Features

Last Scene Memory

DVD CD

This player memorizes last scene from the last disc that is viewed. The last scene remains in memory even if you remove the disc from the player or switch off the player. If you load a disc that has the scene memorized, the scene is automatically recalled.

Note:

This player does not memorize the scene of a disc if you switch off the player before commencing to play the disc.

Screen Saver

The screen saver 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 sequence: $\mathsf{MODE1} \to \mathsf{MODE2} \to \mathsf{MODE3} \to \mathsf{MODE1}$
- If you turn off the power, the video mode will return to initial default state (MODE1).

Detailed Description of each Video Mode

MODE1: The source material of the DVD video (film material or video material) is determined from disc information.

MODE2: Suitable for playing film based content or video based material recorded by the progressive scan method.

MODE3 : Suitable for playing video based content with comparatively little motion.

Note:

The video mode setting only works when the Progressive Scan mode is set to "On" on the setup menu.

Controlling other TVs with the remote control

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

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

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

Code numbers of controllable TVs

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

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

Note:

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

Using the Karaoke Function

Note:

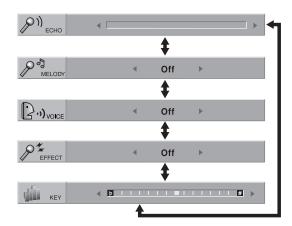
You cannot enjoy Karaoke in VCR mode.

- 1. Load a karaoke disc.
- 2. Connect a microphone to MIC socket.

Note:

- If a microphone is not connected the karaoke menu will not appear.
- The Karaoke menu will appear only when a disc is loaded.
- 3. Press VOL. ▼ to the minimum level to prevent acoustic feedback (e.g. a loud howling sound) before turning on the microphone.
- 4. Press PLAY to start playback.
- Press VOL. ▼ or ▲ to adjust the microphone volume and then sing a song. If you want to set KARAOKE option follow steps 6-8.
- 6. **Press KARAOKE during playback.** KARAOKE menu appears.
- 7. Use ▲/▼ to select an desired item (ECHO, KEY, MELODY, VOICE, or EFFECT).

The display changes as shown in the chart below.



8. Use **♦►** to adjust value of the item selected.

ECHO: You can adjust the echo volume by pressing the ***** buttons.

MELODY: If you wish to sing only to the backing band or orchestra unaccompanied by a vocal guide melody, set MELODY to Off.

VOICE: If you wish to sing a duet with the recorded karaoke singer, select a voice you desire.

Voice Select	Output			
voice Select	Left speaker	Right speaker		
V1	Voice1	Voice1		
V2	Voice2	Voice2		
V1+V2	Voice1	Voice2		
Off	None voice	None voice		

EFFECT: You can use Special Effects. Each time **♦** is pressed, the Special Effect changes as shown below.

 $\mathsf{Off} \to \mathsf{HARMONY} \to \mathsf{FLANGE} \to \mathsf{CHORUS}$

KEY: You can change the key by pressing the **◄/►** buttons.

Note:

Controlling the KEY when this unit is connected to amplifier (receiver) with digital audio connection, the sound of the front left/right speakers connected to amplifier (receiver) may be muted.

In that case, you must change the sound mode of the amplifier (receiver) for the output of the speakers.

Press KARAOKE to exit the KARAOKE menu.

Notes:

- The microphone may not be available during special playback. (ex. slow)
- The karaoke feature functions only with karaoke-compatible discs.
- The VOICE and MELODY menus may not be available on some karaoke discs.
- For more details, refer to the information supplied with the disc.
- There is no microphone's sound output during a disc encoded with DTS is playing back.

Copying from DVD To VCR

This unit allows you to copy the contents of a DVD to a Video tape with a press of the REC/ITR button.

Notes:

 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 Video tape

Insert a blank videotape into the VCR deck.

3. Copy the DVD to Video tape

Press the REC/ITR button.

- 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.

Note:

Make sure the player is in DVD mode.

4. Stop the Copy Process

When the DVD is finished playing, press STOP 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 player

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

Note:

In the following description, this video player 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)/ VIDEO (VCR IN AV1) on the rear panel of this unit or AUDIO IN(L(MONO)/R)/VIDEO IN on the front of this unit.
- Insert the recorded tape into VCR A and a blank tape into VCR B.
- Press AV until the socket you wish to record from is displayed. (VCR B)

AV 1 for recording from AUDIO (L/R)/ VIDEO (VCR IN AV1) terminals on the rear of your unit. AV 2 for recording from AUDIO IN (L(MONO)/R)/ VIDEO IN terminals on the front of your unit.

- 4. 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 players.

Reference

Language Codes

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

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

Area Codes

Choose a area code from this list.

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

TroubleshootingCheck 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 VCR 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.
	The Progressive Scan is set to "On" on the setup menu but is connected to a standard (analog) television.	Set Progressive Scan to "Off" (see page 15).
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.

Specification

General

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

Power consumption 17W

Dimensions (approx.) 430 X 78.5 X 265 mm (w/h/d)

Mass (approx.) 4.2 kg

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

Operating humidity 5 % to 90 %

Timer 24 hours display tape

System

Laser Semiconductor laser, wavelength 650 nm Video Head system Double azimuth 6 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 (VCR)

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

Outputs (DVD)

VIDEO OUT 1 Vp-p 75 ohms, sync negative

S-VIDEO OUT (Y) 1.0 Vp-p 75 ohms, negative sync., Mini Din 4-pin x 1

(C) 0.3 Vp-p 75 ohms

COMPONENT VIDEO OUT $\hspace{1cm}$ (Y) 1.0 V (p-p), 75 Ω , negative sync, RCA jack x 1

(Progressive Scan) (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 (optical audio) 3 V (p-p), 75 Ω , Optical connector x 1

Audio output (analog audio) 2.0 Vrms (1 KHz, 0 dB), 600 Ω, RCA jack (L, R)x2

Outputs (VCR)

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

• Design and specifications are subject to change without notice.

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