

Installation and Operating Guide | Warranty

Model Number | DVB251 | DVD Player



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Safety Precautions



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



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



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

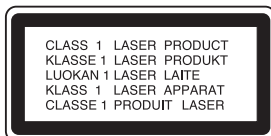


The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

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

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.
ATTENTION: POUR ÉVITER LES CHOC ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

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



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.

FCC WARNING: This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

REGULATORY INFORMATION: FCC Part 15

This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the product is operated in a residential installation. This product generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the product and receiver.
- Connect the product into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC COMPLIANCE: The responsible party for this product's compliance is: Zenith Electronics Corporation, 2000 Millbrook Drive, Lincolnshire, IL 60069, USA. Phone: 1-847-941-8000

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 is equipped with copy protection measures developed by Macrovision. Copy protection signals are recorded on some discs. When recording these discs on a VCR, picture noise will appear during playback.

This product incorporates copyright protection technology that is protected by certain U.S. patent claims 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. _____

IMPORTANT SAFETY INSTRUCTIONS

CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS IN THIS OWNER'S MANUAL. AND THOSE MARKED ON THE PRODUCT. RETAIN THIS BOOKLET FOR FUTURE REFERENCE.

This product has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this product will protect you if you observe the following procedures for installation, use, and servicing.

This product does not contain any parts that can be repaired by the user.

DO NOT REMOVE THE CABINET COVER, OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.

- 1. Read these instructions.** - All these safety and operating instructions should be read before the product is operated.
- 2. Keep these instructions.** - The safety, operating and use instructions should be retained for future reference.
- 3. Heed all warnings.** - All warnings on the product and in the operating instructions should be adhered to.
- 4. Follow all instructions.** - All operating and use instructions should be followed.
- 5. Do not use this product near water.** - For example: near a bath tub, wash bowl, kitchen sink, laundry tub, in a wet basement; or near a swimming pool; and other areas located near water.
- 6. Clean only with dry cloth.** - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.** - Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from over-heating. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.**
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug.** A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the product.**
- 11. Only use attachments/accessories specified by the manufacturer.**
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with apparatus. When a cart is used, use caution when moving the cart/product combination to avoid injury from tip-over.**
- 13. Unplug this product during lightning storms or when unused for long periods of time.**
- 14. Refer all servicing to qualified service personnel. Servicing is required when the product has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the product, the product has been exposed to rain or moisture, does not operate normally, or has been dropped.**



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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

| | |
|---|----------------------------------|
|  | DVD Video (8 cm / 12 cm disc) |
|  | Audio CD (8 cm / 12 cm disc) |

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

Notes

- Depending on the conditions of the recording equipment or the CD-R/RW disc itself, some CD-R/RW discs cannot be played on this unit.
- This unit cannot play CD-R/RW discs that do not contain any 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 irregularly shaped CDs (e.g., heart-shaped or octagonal). It may result in malfunctions.

Notes on DVDs

Some playback operations of DVDs may be intentionally fixed by software manufacturers. As this unit plays DVDs 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 supplied with the DVDs. Some DVDs made for business purposes may not be playable on this unit.

Regional code of the DVD player and DVDs

This DVD player is designed and manufactured for playback of region "1" 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 "1" 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.



Note on DTS-encoded CDs

To avoid possible damage to the audio system, turn down the volume before playing back such discs. Adjust the volume gradually to personal preference. To enjoy DTS Digital Surround™ playback, an external 5.1 channel DTS Digital Surround™ decoder system must be connected to the digital output of the player.

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, enabling you to locate the chapter you want. Chapter numbers may not be recorded on all discs.

Track (Audio CD only)

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

Before Use (Continued)

Precautions

Handling the DVD Player

When shipping the DVD Player

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

When setting up the DVD Player

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

To keep the exterior surfaces clean

Do not use volatile liquids, such as insecticide spray, near the unit. Do not allow rubber or plastic products to contact the unit for a long period of time. They will leave marks on the surface.

To move the DVD Player

When you move the player, take out any discs. If you don't, the discs may be damaged or drop into the internal workings of the DVD player.

Cleaning the DVD Player

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, benzene, or thinner, as these might damage the surface of the DVD Player.

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.

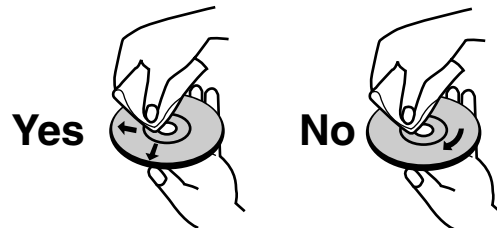


Storing discs

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 build-up 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, benzene, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.


About Symbols

About the symbol display

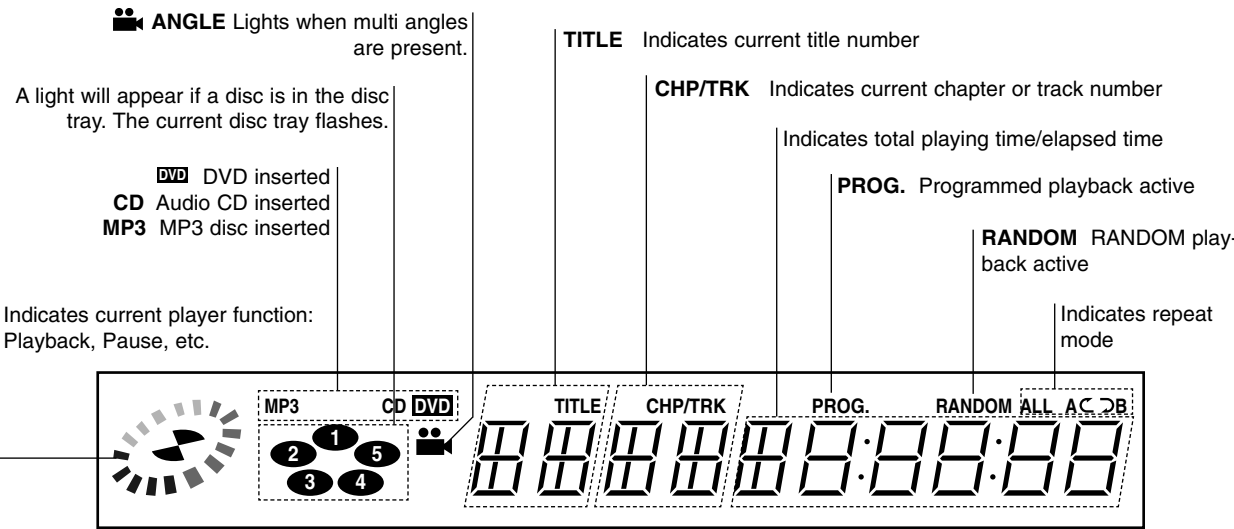
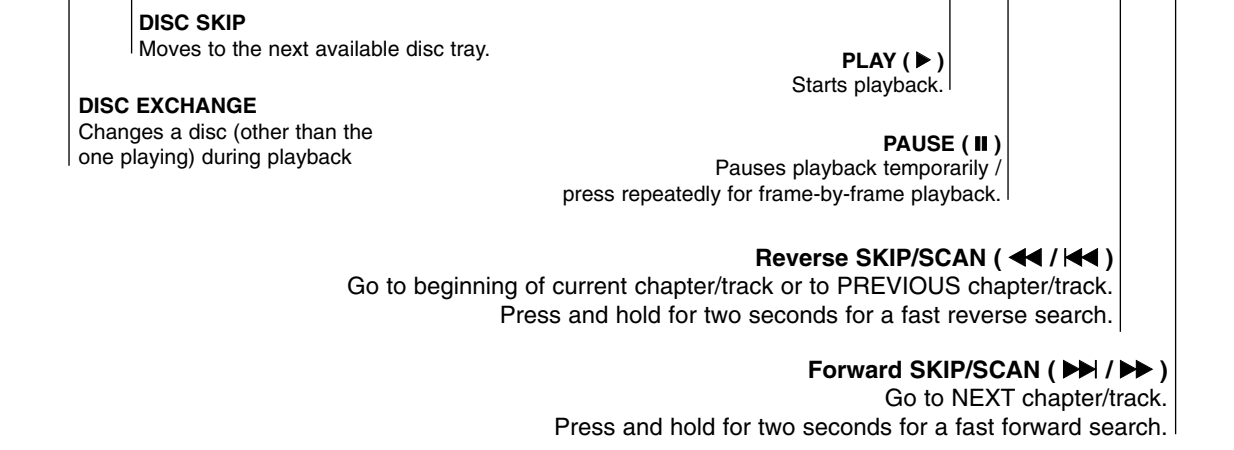
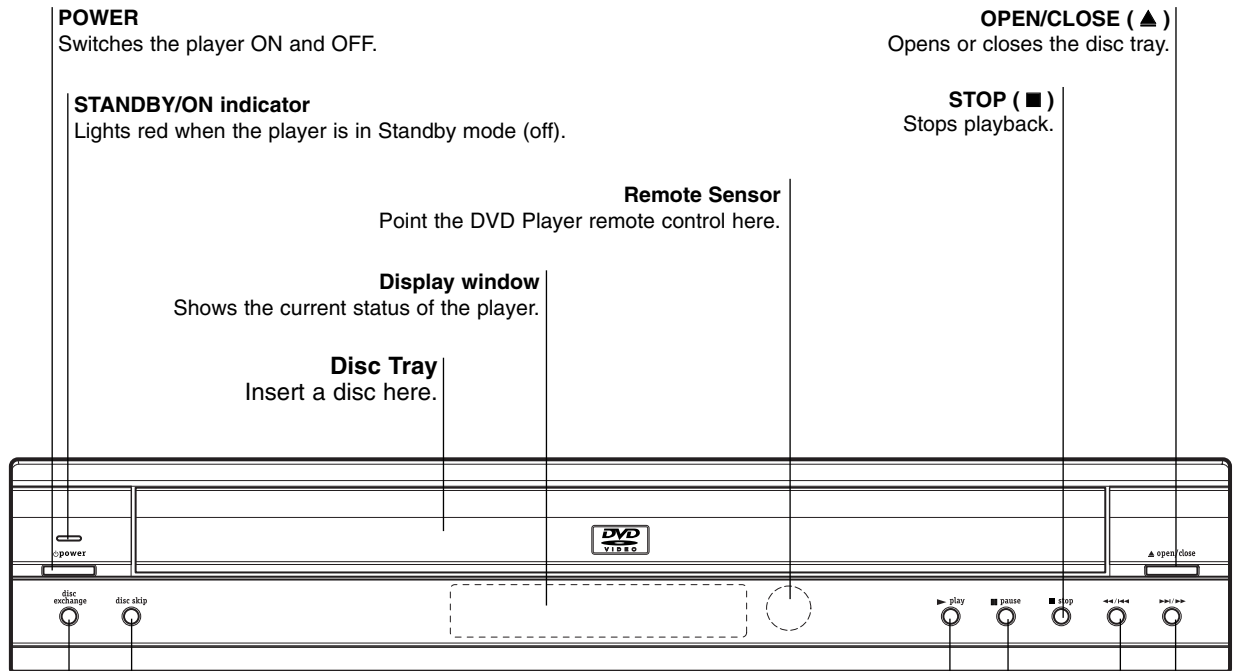
" " may appear on the TV screen during operation. This icon means the function explained in this owner's manual is not available on that specific DVD video disc.

About the disc symbols for instructions

When a section in this manual includes the following icons, the data provided herein is applicable only to the software represented by that icon.

-  DVD
-  Audio CDs.
-  MP3 disc.

Front Panel and Display Window



Remote Control

POWER
Switches DVD Player ON and OFF.

DISPLAY
Accesses On-Screen Display.

◀ ▶ ▲ ▼ (left/right/up/down)
Select a menu option.

MENU
Accesses menu on a DVD disc.

Reverse SLOW (◀◀) •
Reverse slow playback.

PAUSE (||) •
Pauses playback temporarily/ press repeatedly for frame-by-frame playback.

STOP (■) •
Stops playback.

Forward SLOW (▶▶) •
Forward slow playback.

0-9 number buttons
Selects numbered options on a menu.

AUDIO •
Selects an audio language (DVD) or an audio channel (CD).

SUBTITLE •
Selects a subtitle language.

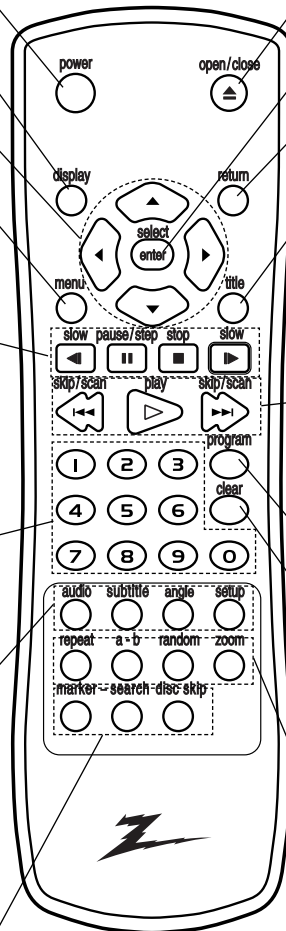
ANGLE •
Selects a DVD camera angle if available.

SETUP •
Accesses or removes setup menu.

MARKER •
Marks any point during playback.

SEARCH •
Displays MARKER SEARCH menu.

DISC SKIP •
Moves to the next available disc tray.



OPEN/CLOSE
Opens and closes the disc tray.

SELECT/ENTER
Acknowledges menu selection.

RETURN
Removes the setup menu.

TITLE
Displays the discs Title menu, if available.

• Forward SKIP/SCAN (▶▶▶) •
Search forward*/ go to next chapter or track.

• PLAY (▶) •
Starts playback.

• Reverse SKIP/SCAN (◀◀◀) •
Search backward*/ go to beginning of current chapter or track or go to previous chapter or track.

* Press and hold button for about two seconds.

PROGRAM
Accesses or removes Program menu.

CLEAR
Removes a track number on the program menu or a mark on the MARKER SEARCH menu.

• REPEAT
Repeat chapter, track, title, all.

• A-B
Repeat sequence.

• RANDOM
Plays tracks in random order.

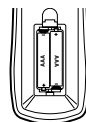
• ZOOM
Enlarges video image.

Remote Control Operation Range

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

- **Distance:** About 23 ft (7 m) from the front of the remote sensor.
- **Angle:** About 30° in each direction of the front of the remote sensor.

Remote control battery installation



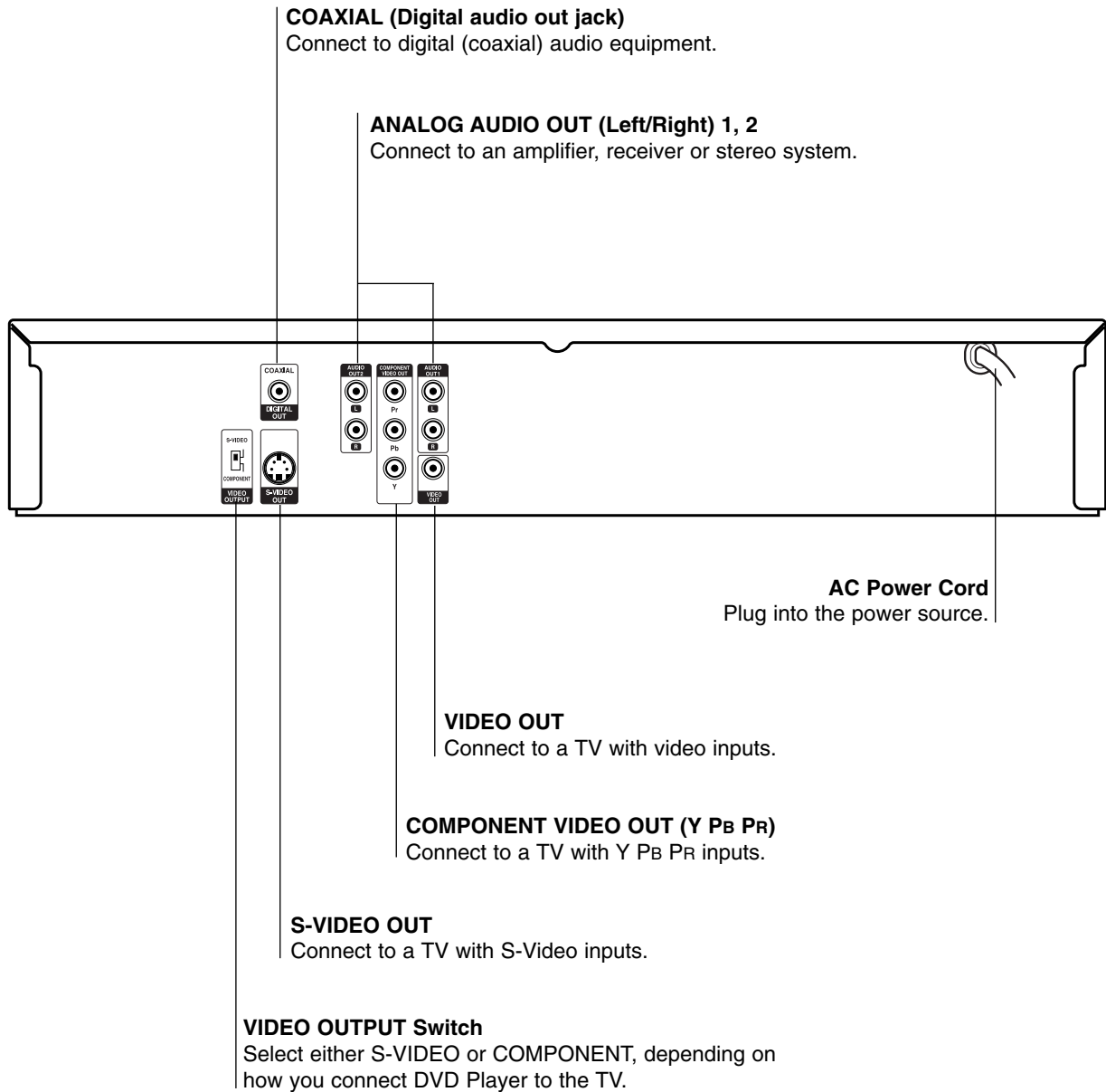
Detach the battery cover on the rear of the remote control, and insert two R03 (size AAA) batteries with **+** and **-** aligned correctly.



Caution

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

Rear Connections Panel



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

Connections

Tips

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

- Do not connect the DVD Player's AUDIO OUT jack to the phono in jack (Turntable) of your audio system.
- Do not connect your DVD Player via your VCR. The DVD image could be distorted by the copy protection system.

Connecting to a TV

- Make one of the following connections, depending on the capabilities of your existing equipment.
- When using the COMPONENT VIDEO OUT jacks, set the VIDEO OUTPUT switch to COMPONENT. When using the S-VIDEO OUT jack, set the VIDEO OUTPUT switch to S-VIDEO.

Video connection (Good)

- 1 Connect the VIDEO OUT jack on the DVD Player to the video in jack on the TV using the video cable supplied (**V**).
- 2 Connect the Left and Right AUDIO OUT jacks of the DVD Player to the audio left/right in jacks on the TV (**A**) using the supplied audio cables.

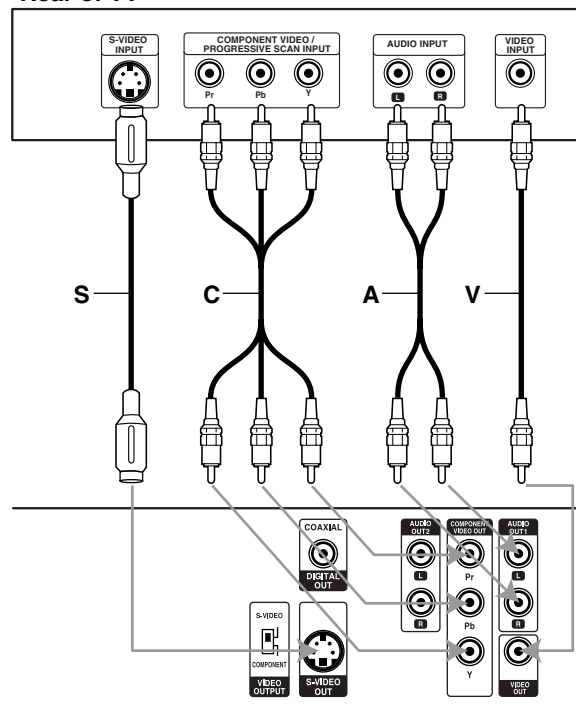
S-Video connection (Better)

- 1 Connect the S-VIDEO OUT jack on the DVD Player to the S-Video in jack on the TV using the supplied S-Video cable (**S**).
- 2 Connect the Left and Right AUDIO OUT jacks of the DVD Player to the audio left/right in jacks on the TV (**A**) using the supplied audio cables.

Component Video (Color Stream®) connection (Best)

- 1 Connect the COMPONENT VIDEO OUT jacks on the DVD Player to the corresponding in jacks on the TV using an optional Y PB PR cable (**C**).
- 2 Connect the Left and Right AUDIO OUT jacks of the DVD Player to the audio left/right in jacks on the TV (**A**) using the supplied audio cables.

Rear of TV



Rear of DVD player

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.

Connections (Continued)

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 the DVD Player to the audio left and right in jacks on your amplifier, receiver or stereo system, using the supplied audio cables (A).

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

- 1 Connect one of the DVD Player's DIGITAL AUDIO OUT jack (COAXIAL X) to the corresponding in jack on your amplifier. Use a digital (coaxial X) audio cable.
- 2 You will need to activate the player's digital output. (See "Digital Audio Output" on page 14).

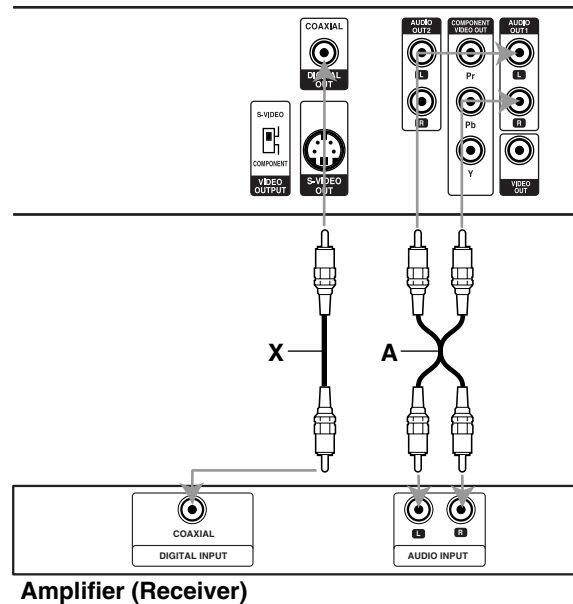
T Digital Multi-channel sound

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 DVD Player (MPEG 2, Dolby Digital and DTS). Check the receiver manual and the logos on the front of the 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.
- Six Channel Digital Surround Sound can only be obtained if your receiver is equipped with a Digital Multi-channel surround sound decoder.
- To confirm the audio format of the current DVD selection display, press AUDIO.
- Repeated pressing of the AUDIO button may allow you to select between various audio formats available on the disc.

Rear of DVD player




Note

This player does not perform internal (2 channel) decoding of a DTS sound track. To enjoy DTS multi channel surround, you must connect this player to a DTS compatible receiver via one of this player's digital audio outputs.

Before Operation

General Explanation

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










On-Screen Display

General playback status can be displayed on the TV screen. Some options can be changed on the menu.

On-screen display operation

- 1** Press **DISPLAY** during playback.
- 2** Use **▲** or **▼** to select an option.
The selected option will be highlighted.
- 3** Press **◀** or **▶** to change the setting of an item.
The number buttons can be also be used for setting numbers (e.g., title number). For some functions, press **SELECT/ENTER** to execute the setting.








Repeat mode Icons

-  **TITLE** Repeat Title
-  **CHAPT** Repeat Chapter
-  **TRACK** Repeat Track (Audio CD only)
-  **DISC** Repeat Current Disc (Audio CD only)
-  **ALL** Repeat All Discs (Audio CD only)
-  **A B** Repeat A-B
-  **OFF** Repeat Off
-  **|||** Resume play from this point
-  Action prohibited or not available





Notes

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

DVD

| Option | | Function (Use ▲/▼ to select desired option) | Selection Method |
|--|--|--|---------------------------------|
| Title Number |  1/3 | Displays the current title number and total number of available titles, and skips to a desired title number. | ◀ / ▶, or Numbers, SELECT/ENTER |
| Chapter Number |  1/12 | Displays the current chapter number and total number of available chapters, and skips to a desired chapter number. | ◀ / ▶, or Numbers, SELECT/ENTER |
| Time search |  0:16:57 | Displays the elapsed playing time, and searches a point identified by its elapsed time. | Numbers, SELECT/ENTER |
| Audio language and Digital Audio Output mode |  1 ENG □□□ 6 CH | Displays the current audio soundtrack language, encoding method and channel number, and any changes you make to the setting. | ◀ / ▶ |
| Subtitle language |  OFF | Displays the current subtitles language, and any changes you make to the setting. | ◀ / ▶ |
| Angle |  1/1 | Displays the current angle number and total number of angles, and any changes you make to the angle number. | ◀ / ▶ |
| Sound |  NORM. | Displays the current sound mode, and any changes you make to the setting. | ◀ / ▶ |

CD

| Option | | Function (Use ▲/▼ to select desired option) | Selection Method |
|---------------|---|---|---------------------------------|
| Track Number |  1/4 | Displays the current track number, total number of tracks, and skips to the desired track number. | ◀ / ▶, or Numbers, SELECT/ENTER |
| Time |  0:16:57 | Displays the elapsed playing time (Display only) | - |
| Audio Channel |  STER. | Displays the audio channel, and changes you make to the audio channel. | ◀ / ▶ |
| Sound |  NORM. | Displays the current sound mode, and any changes you make to the setting. | ◀ / ▶ |

Before Operation (Continued)

Initial Settings

You can set up your own Personal Preferences.

Initial Settings General Operation

- 1 Press SETUP.**
The setup menu appears.



- 2 Use ▲/▼ to select the desired option.**
The screen will display the current setting for the selected option, as well as alternate setting(s).
- 3 While the desired item is displayed, use ►, then ▲/▼ to select the desired setting.**
- 4 Press SELECT/ENTER to confirm your selection.**
Some options require additional steps.
- 5 Press SETUP, RETURN or PLAY to exit the setup menu.**

Language

Disc Language **DVD**

Select a language for the disc's Menu, Audio and Subtitle.

Original: The original language included on the disc is selected.

Other: To select another language, enter the 4-digit number corresponding to the language code list on page 26. 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.



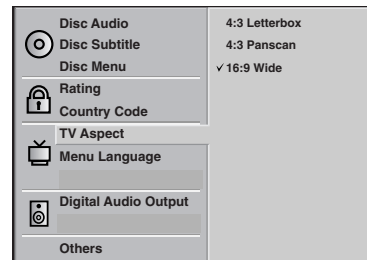
Picture

TV Aspect **DVD**

4:3 Letterbox: Select when a standard 4:3 TV is connected. Displays theatrical images with masking bars above and below the picture.

4:3 Panscan: Select when a standard 4:3 TV is connected. Displays pictures cropped to fill your TV screen. Both side of the original picture may be cut off.

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



Before Operation (Continued)

Sound

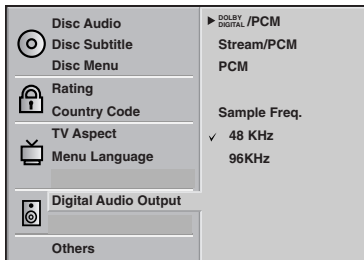
Digital Audio Output

Each DVD disc may have a variety of audio output options. Set the player's Digital Audio Output according to the type of audio system you use.

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

PCM: Select PCM if you connect a 2 channel digital stereo amplifier. The DVD player outputs sounds in the PCM 2ch format when you play a DVD video disc recorded on the Dolby Digital, MPEG1 or MPEG2 recording system.



Sample Frequency

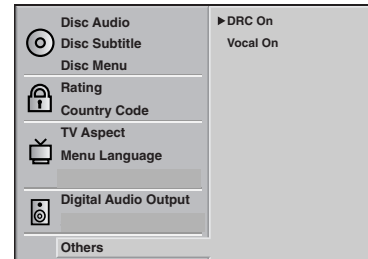
To change the Sample Frequency setting, first select the desired Digital Audio Output as indicated above. If your receiver or amplifier is NOT capable of handling 96KHz signals, select 48KHz. When this choice is made, the DVD player will automatically convert any 96KHz signals to 48KHz so your system can decode them.

If your receiver or amplifier is capable of handling 96KHz signals, select 96KHz. When this choice is made, the DVD player will pass all signals through without down conversion, or processing.

Others

The DRC and Vocal settings can be changed.

- Use ▲/▼ to select the desired option and press SELECT/ENTER. The setting of the selected option alternates between On and Off.



Dynamic Range Control (DRC)

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

Vocal

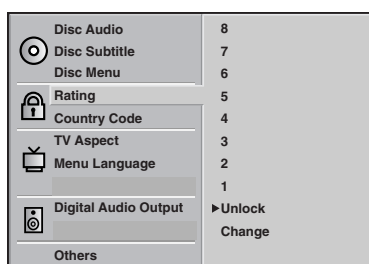
Set Vocal to On only when a multi-channel karaoke DVD is playing. The karaoke channels on the disc will mix into normal stereo sound.

Before Operation (Continued)

Parental Control

Rating **DVD**

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

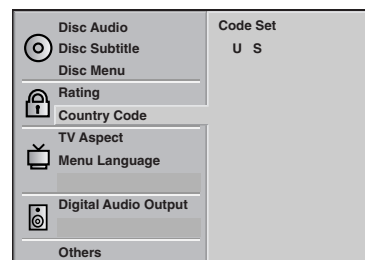


- 1 Select "Rating" on the Setup menu using the ▲ and ▼ buttons.
- 2 While "Rating" is displayed, press ►.
- 3 When you have not entered a password yet; Key-in a 4-digit password using the number buttons to create a personal 4-digit security password, then press SELECT/ENTER. Enter the 4-digit password again and press SELECT/ENTER to verify.
When you have already entered a password; Key-in your 4-digit password using the number buttons to confirm the personal 4-digit security password, then press SELECT/ENTER.

If you make a mistake before pressing SELECT/ENTER, press CLEAR and key-in your 4-digit security password again.
- 4 Select a rating from 1 to 8 using the ▲/▼ buttons. One (1) has the least playback restrictions. Eight (8) has the most playback restrictions.
Unlock: If you select Unlock, Parental Control is not active. The disc will play without restrictions.
Ratings 1 to 8: Some discs contain scenes not suitable for children. If you set a rating for the player, all disc scenes with the same rating or lower will be played. Higher rated scenes will not be played unless an alternative scene is available on the disc. The alternative must have the same rating or a lower one. If no suitable alternative is found, playback will stop. You must enter your 4-digit password or change the rating level in order to play the disc.
- 5 Press SELECT/ENTER to confirm your rating selection, then press SETUP to exit the menu.

Country Code **DVD**

Enter the code of a country/area whose standards were used to rate the DVD video disc, referring to the list (See "Country Code List", page 26.).



- 1 Select Country Code using the ▲/▼ buttons on the setup menu.
- 2 While Country Code is selected, press ►.
- 3 Follow step 3 of "Rating" on left.
- 4 Select the first character using the ▲/▼ buttons.
- 5 Shift the cursor using ◀▶ buttons and select the second character using ▲/▼ buttons.
- 6 Press SELECT/ENTER to confirm your country code selection, then press SETUP to exit the menu.

Note

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

Changing the 4-digit code

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

If you forget your 4-digit code

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

- 1 Press SETUP to display the setup menu.
- 2 Use the Number buttons to enter the 6-digit number "210499."
The 4-digit password is cleared. "P CLR" appears on the display. The message will appear if the disc tray is closed. It will be on the display until you try another feature.
- 3 Enter a new code as shown above to the left (Rating).

Operation with DVD and Audio CD

Playing a DVD and Audio CD

Playback Setup **DVD** **CD**

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

1 Press OPEN/CLOSE to open the disc tray.

2 Load your 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.

- Discs can be loaded one at a time by pressing DISC SKIP to rotate the carousel.

3 Press OPEN/CLOSE to close the tray.

READING appears on the TV screen, and playback starts automatically. If playback does not start, press PLAY.

In some cases, the disc menu may appear instead.

If a disc menu screen is displayed

The menu screen may be displayed first after loading a DVD that contains a menu.

DVD

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

Press TITLE or MENU to return to the disc menu screen.

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 15).
- DVDs may have a region code.
- Your player will not play discs that have a region code different from your player. The region code for this player is 1 (one).

Exchanging discs during playback

- Press DISC EXCHANGE on the front panel during playback to open the disc tray.
- Press DISC SKIP to rotate the disc trays to the desired position. The carousel will rotate clockwise by one disc increments.
- Exchange the discs and press DISC EXCHANGE or OPEN/CLOSE to close the disc tray.

Note

- The disc tray presently loaded in the play position can not be exchanged.

Skipping discs

Press DISC SKIP during play or when playback is stopped.

Notes

- When DISC SKIP is pressed, the disc tray rotates and playback begins from the beginning of the next disc.
- If there is no disc on the next disc tray, the following disc tray will be selected.
- When DISC SKIP is pressed during playback of disc 5, playback of disc 1 will start.

Exchanging the disc and starting playback

1. Press OPEN/CLOSE during playback or when playback is stopped.
Play stops (if pressed during playback), the disc tray opens and the disc that was in the play position comes to the front.
2. Exchange the disc.
3. Press OPEN/CLOSE or PLAY again.
The tray closes and playback begins (with the disc that was in front).

Operation with DVD and Audio CD (Continued)

General Features

Note

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

Moving to another TITLE






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

- Press DISPLAY when playback is stopped. From the title function, press the appropriate numbered 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 SKIP/SCAN  or  briefly during playback to select the next chapter/track or to return to the beginning of the current chapter/track.
- Press SKIP/SCAN  twice briefly to step back to the previous chapter/track.
- To go directly to any chapter during DVD playback, press DISPLAY. Then, use / to select C (chapter) (or for an Audio CD, select T for track). Then, enter the chapter/track number using the numbered buttons (0-9).

Note

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

Still Picture and Frame-by-frame playback















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













Pause

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

Slow Motion

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



Search

- 1 Press and hold SKIP/SCAN  or  for about two seconds during playback.
The player will now go into SEARCH mode.
- 2 Press and hold SKIP/SCAN  or  repeatedly to select the required speed: X2, X4, X16, X100 (backward) or X2, X4, X16, X100 (forward).
- 3 To exit SEARCH mode, press PLAY.

Random

- 1 Press RANDOM during playback or in stop mode.
The unit automatically begins Random Playback and "RANDOM (1-3)" appears on the TV screen.
 - RANDOM1: Plays all the tracks on a single disc in random order and then stops.
 - RANDOM2: Plays all the tracks on current disc in random order and then plays all the tracks on each succeeding disc in random order and then stops.
 - RANDOM3: Plays 2 tracks randomly from a disc and then plays 2 tracks randomly from a different disc until all tracks on all discs have been played.
- 2 To return to normal playback, press RANDOM until "RANDOM" disappears on the display window.

Tip

By pressing SKIP/SCAN  or  during Random playback, the DVD Player selects another title (track) and resumes Random playback.

Note

This function works only with Compact Discs and Karaoke discs.

Operation with DVD and Audio CD (Continued)

General Features (continued)

Repeat **DVD** **CD**



DVD Video Discs - Repeat Chapter/Title/Off

- 1 To repeat the chapter currently playing, 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.

Audio CDs - Repeat Track/Disc/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 Disc icon appears on the TV screen.
- 3 To repeat entire disc content, press REPEAT a third time. The Repeat All icon appears on the TV screen.
- 4 To exit Repeat mode, press REPEAT a fourth time. The Repeat Off icon appears on the TV screen.

Repeat A-B **DVD** **CD**



To repeat a sequence in a title:

- 1 Press A-B at the start point. A- appears briefly on the TV screen.
- 2 Press A-B again at the 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 **DVD**

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

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

3D Surround **DVD** **CD**

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 Use ▲ or ▼ to select the sound option. The sound option will be highlighted.
- 3 Use ◀ or ▶ to select “3D SUR”. To turn off the 3D Surround effect, select “NORM”.

Zoom **DVD**

The Zoom function allows you to expand the video image and to move the focus point of zoomed image.

- 1 Press ZOOM during playback or still playback to activate the Zoom function. If you press ZOOM repeatedly, the magnification level increases up to six times.
- 2 Use the ◀▶/▲/▼ buttons to move the focus point off the zoomed image.
- 3 Press CLEAR to resume normal playback or return to the paused image.

Notes

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

Operation with DVD and Audio CD (Continued)

General Features (continued)

Marker Search **DVD** **CD**



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

- 1 During disc playback, press MARKER at the location you want to memorize.
The Marker icon will appear on the TV screen briefly.
- 2 Repeat step 1 to enter up to nine Marker points on a disc.

To Recall a Marked Scene

- 1 During disc playback, press SEARCH.
The MARKER SEARCH menu will appear on the screen.
- 2 Within 10 seconds, use ◀▶ to select a Marker number that you want to recall.
- 3 Press SELECT/ENTER.
Playback will start from the Marked scene.
- 4 To remove the MARKER SEARCH menu, press SEARCH.

To clear a Marked Scene

- 1 During disc playback, press SEARCH.
The MARKER SEARCH menu will appear on the screen.
- 2 Use ◀▶ to select the Marker number that you want to erase.
- 3 Press CLEAR.
The Marker number will be erased from the list.
- 4 Repeat steps 2 and 3 to erase additional Marker numbers.
- 5 To remove the MARKER SEARCH menu, press SEARCH.

Note

All disc markers are cleared when the power is turned off or the disc is removed.

Special DVD Features **DVD**

Checking the contents of DVD Video discs: Menus

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

Title Menu **DVD**

- 1 Press TITLE.
If the current title has a menu, that 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 **DVD**

- 1 Press MENU.
The disc menu is displayed.
- 2 To exit the disc menu, press MENU again.

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.
The number of the current angle appears on the display.

Changing the Audio Language **DVD**



Press AUDIO repeatedly during playback to hear different audio languages or audio tracks available on the disc.

Changing the Audio Channel




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

Subtitles **DVD**

Press SUBTITLE repeatedly during playback to view the different subtitle languages available on the disc.

Note

If  appears, the feature is not available on the disc.

Programmed Playback with Audio CD

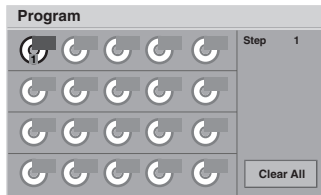
Programmed Playback with Audio CD

1 Insert a Audio CD and close the tray.

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

Note

Press PROGRAM or RETURN to exit the Program menu.



3 Enter the disc number using the number buttons (1-5) and then press SELECT/ENTER.

4 Enter the track number using the number buttons (0-9) and then press SELECT/ENTER.
The next area is selected.

5 Repeat steps 3 to 4.
Up to 20 tracks can be programmed.

6 Press PLAY to exit the menu.
The selected tracks are stored in the player memory and playback begins with the first programmed sequence.

7 After playback of all programmed tracks is completed, playback is stopped

Repeat Programmed Tracks/All

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

To resume normal playback from programmed playback

Press PROGRAM until "PROG." indicator disappears in the display window.

Erasing a Track from Program List

- 1 Press PROGRAM while playback is stopped. The Program menu will appear.
- 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 PROGRAM while playback is stopped. 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.

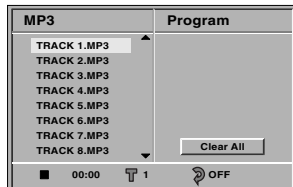
Operation with MP3 Disc

Playing an MP3 disc

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

Before playing MP3 recordings, read the notes on MP3 Recordings on right.

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



MP3 menu

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

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

Pause **MP3**

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

Moving to another Track **MP3**

- Press SKIP/SCAN ◀◀ or ▶▶ once during playback to advance to the next track or to return to the beginning of the current track.
- Press SKIP/SCAN ◀◀ twice briefly to step back to the previous track.

Repeat Track/All/Off **MP3**

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

Notes on MP3 Discs

About MP3

- An MP3 file is audio data compressed by using the MPEG1 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 non MP3 encoded file that has a file extension ".mp3".

MP3 Disc compatibility with this player is limited as follows:

1. Sampling Frequency / only at 44.1kHz
2. Bit rate / within 32 - 320kbps
3. CD-R physical format should be "ISO 9660"
4. If you record MP3 files using the software which cannot create a FILE SYSTEM, for example "Direct-CD" etc., it is impossible to playback MP3 files. We recommend that you use "Easy-CD Creator", which creates an ISO9660 file system.
5. A single session disc requires MP3 files in the first track. If there is no MP3 file in the 1st track, it cannot playback MP3 files. If you wish to playback MP3 files, format all the data in the disc or use a new one.
6. We do not recommend using CD-RW discs. Please use finished CD-R discs only.
7. File names should be named using 8 letters or less and must incorporate ".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 200.
10. Use 74 minute CD-R discs (650M), Do not use 80 minute CD-R (700M) software

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

Customers should also note that permission is required in order to download MP3 files and music from the Internet. Our company cannot grant such permission. Permission should always be sought from the copyright owner.

Programmed Playback with MP3 Disc

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.

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

2 Press PROGRAM during playback or in the stop mode to enter the Program Edit mode.

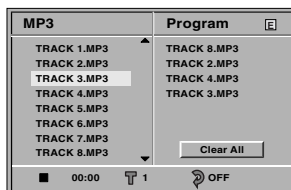
The [E] mark will appear to the right of the word Program on the right side of the menu screen.

Note

Press PROGRAM to exit the Program Edit mode; the [E] mark will disappear.

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

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



MP3 menu

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

6 Use ▲/▼ to select the track you want to start playing.

Press TITLE to move to the next page.
Press MENU to move to the previous page.

7 Press PLAY to start.

Playback begins in the order in which you programmed the tracks and "PROG." appears in the display window. Playback stops after playing the last programmed track on the program list.

Note

The programmed tracks are cleared when the power is turned off or the disc is removed.

Repeat Programmed Tracks/All

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

Erasing a Track from Program List

1 Press PROGRAM during playback or in the stop mode to enter the Program Edit mode.

The [E] mark will appear.

2 Press ► to move to the Program list.

3 Use ▲/▼ to select the track that you wish to erase from the Program list.

4 Press CLEAR.

The track will be erased from the Program list.

Erasing the Complete Program List

1 Follow steps 1-2 of "Erasing a Track from Program List" as above.

2 Use ▲/▼ to select "Clear All", then press SELECT/ENTER.

The complete Program for the disc will be erased.

The programs are also cleared when the disc is removed.

To resume normal playback from programmed playback

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

Additional Information

Screen Saver

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

After the Screen Saver has been engaged for about five minutes, the DVD Player will automatically turn itself off.

Video Mode Setting

- With certain discs, the playback picture may be flickering or Dot Crawl is shown on straight lines. That means Vertical interpolation or De-interlace is not perfectly matched with the disc. In this case, the picture quality may be improved by changing the video mode.
- To change the video mode, press and hold DISPLAY about 3 seconds during disc playback. The new video mode number selected is displayed on the TV screen. Check whether the video quality has improved. If not, repeat the above procedure until picture quality is improved.
- Video mode change sequence:
MODE1 → MODE2 → MODE3 → MODE4 →
MODE5 → MODE1
- If you turn off the power, the video mode will return to initial default state (MODE1).

Troubleshooting

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

| Symptom | Cause | Correction |
|--|---|--|
| No power. | <ul style="list-style-type: none"> The power cord is disconnected. | <ul style="list-style-type: none"> Plug the power cord into the wall outlet securely. |
| The power is on, but the DVD player does not work. | <ul style="list-style-type: none"> No disc is inserted. | <ul style="list-style-type: none"> Insert a disc. (Check that the DVD or, audio CD indicator in the display window is lit.) |
| No picture. | <ul style="list-style-type: none"> The TV is not set to receive DVD signal output. | <ul style="list-style-type: none"> Select the appropriate video input mode on the TV so the picture from the DVD player appears on the TV screen. |
| | <ul style="list-style-type: none"> The video cable is not connected securely. | <ul style="list-style-type: none"> Connect the video cable into the jacks securely. |
| | <ul style="list-style-type: none"> The connected TV power is turned off. | <ul style="list-style-type: none"> Turn on the TV. |
| No sound. | <ul style="list-style-type: none"> The equipment connected with the audio cable is not set to receive DVD signal output. | <ul style="list-style-type: none"> Select the correct input mode on the audio receiver so you can listen to the sound from the DVD player. |
| | <ul style="list-style-type: none"> The audio cables are not connected securely. | <ul style="list-style-type: none"> Connect the audio cable into the jacks securely. |
| | <ul style="list-style-type: none"> The power of the equipment connected with the audio cable is turned off. | <ul style="list-style-type: none"> Turn on the equipment connected with the audio cable. |
| | <ul style="list-style-type: none"> The Digital Audio Output is set to the wrong position. | <ul style="list-style-type: none"> Set the Digital Audio Output to the correct position, then turn on the DVD player again by pressing POWER. |
| The playback picture is poor. | <ul style="list-style-type: none"> The disc is dirty. | <ul style="list-style-type: none"> Clean the disc. |
| The DVD player does not start playback. | <ul style="list-style-type: none"> No disc is inserted. | <ul style="list-style-type: none"> Insert a disc. (Check that the DVD, or audio CD indicator in the DVD display is lit.) |
| | <ul style="list-style-type: none"> An unplayable disc is inserted. | <ul style="list-style-type: none"> Insert a playable disc. (Check the disc type, color system and Regional code.) |
| | <ul style="list-style-type: none"> The disc is placed upside down. | <ul style="list-style-type: none"> Place the disc with the playback side down. |
| | <ul style="list-style-type: none"> The disc is not placed within the guide. | <ul style="list-style-type: none"> Place the disc on the disc tray correctly inside the guide. |
| | <ul style="list-style-type: none"> The disc is dirty. | <ul style="list-style-type: none"> Clean the disc. |
| | <ul style="list-style-type: none"> The Rating level is set. | <ul style="list-style-type: none"> Cancel the Rating function or change the rating level. |
| The remote control does not work properly. | <ul style="list-style-type: none"> The remote control is not pointed at the remote sensor of the DVD player. | <ul style="list-style-type: none"> Point the remote control at the remote sensor of the DVD player. |
| | <ul style="list-style-type: none"> The remote control is too far from the DVD player. | <ul style="list-style-type: none"> Operate the remote control within about 23 ft (7 m). |
| | <ul style="list-style-type: none"> There is an obstacle in the path of the remote control and the DVD player. | <ul style="list-style-type: none"> Remove the obstacle. |
| | <ul style="list-style-type: none"> The batteries in the remote control are exhausted. | <ul style="list-style-type: none"> Replace the batteries with new ones. |

Language Code List

Enter the appropriate code number for the initial settings "Disc Audio", "Disc Subtitle" and/or "Disc Menu"
(See page 13).

| 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 |

Country Code List

Enter the appropriate code number for the initial setting "Country Code" (See page 15).

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

Specifications

General

| | |
|-----------------------|--|
| Power requirements | AC 120V , 60 Hz |
| Power consumption | 14W |
| Dimensions (approx.) | 430 X 79.9 X 410 mm (16.9 x 3.2 x 16.2 inches) (w x h x d) |
| Weight (approx.) | 5.1 kg (12.3 lbs) |
| Operating temperature | 5°C to 40°C (41°F to 104°F) |
| Operating humidity | 5 % to 90 % |

System

| | |
|-----------------------|--|
| Laser | Semiconductor laser, wavelength 650 nm |
| Signal system | NTSC |
| 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) |

Outputs

| | |
|------------------------------|--|
| VIDEO OUT | 1 Vp-p 75 ohms, sync negative, RCA jack x 1 |
| S-VIDEO OUT | (Y) 1.0 V (p-p), 75 Ω, negative sync., Mini DIN 4-pin x 1 (C) 0.3 V (p-p) 75 ohms |
| COMPONENT VIDEO OUT | (Y) 1.0 V (p-p), 75 Ω, negative sync., RCA jack x 1 (Pb)/(Pr) 0.7 V (p-p), 75 Ω, RCA jack x 2 |
| Audio output (digital audio) | 0.5 V (p-p), 75 Ω, RCA jack x 1 |
| Audio output (analog audio) | 2.0 Vrms (1 KHz, 0 dB), 330 Ω, RCA jack (L, R) x 2 |

Accessories

| | |
|----------------|--------|
| S-Video cable |1 |
| Video cable |1 |
| Audio cable |1 |
| Remote control |1 |
| Batteries |2 |

- Design and specifications are subject to change without notice.

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ZENITH ELECTRONICS CORPORATION DVD PLAYER LIMITED WARRANTY - USA

Zenith will repair or replace your product, at Zenith's option, if it proves to be defective in material or workmanship under normal use, during the warranty period ("Warranty Period") listed below, effective from the date ("Date of Purchase") of original consumer purchase of the product. This warranty is good only to the original purchaser of the product and effective only when used in the United States, excluding U.S. Territories.

| | |
|--|---|
| <p>WARRANTY PERIOD:</p> <p>LABOR: 90 DAYS from the Date of Purchase</p> <p>PARTS: ONE YEAR from the Date of Purchase</p> <p>Repaired or Replacement Units are warranted for the remaining period of the original warranty.</p> | <p>HOW SERVICE IS HANDLED:</p> <p>Call 1-800-984-9349 for instructions on getting the defective unit repaired or replaced.</p> <p>Please retain dated sales receipt and your box to return the unit to Zenith for repair or replacement.</p> <p>Both ways shipping charges will be borne by Zenith during the Warranty Period. After the Warranty Period, you pay in-bound shipping charges and Zenith pays return shipping charges.</p> |
|--|---|

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THIS LIMITED WARRANTY DOES NOT APPLY TO:

1. Damages or operating problems that result from shipping, installation, adjustment of user controls, calibration, maintenance or failure to maintain, or separate system components; and
2. Damages or operating problems that result from normal wear and tear, misuse, abuse, operation outside environmental specifications or contrary to the requirements or precautions in the Operating Guide, accident, lightning strikes or other natural causes, unauthorized modification or alteration, incorrect electrical current or voltage, software errors that do not disable functionality, operating software protocols adopted after the date of manufacture or for outside the U.S., institutional or commercial use, or other causes not arising out of defect in material or workmanship.
3. **Therefore, the cost of repair or replacement of such defective product shall be borne by the consumer.**

CUSTOMER INTER-ACTIVE CENTER NUMBERS:

| | |
|---|--|
| For Warranty Service | <p>Call 1-800-984-9349 (Monday~ Friday 7 AM ~ 7 PM CT)</p> <p>Retain your dated sales receipt to prove the Date of Purchase as well as your box for shipping the unit to Zenith, for warranty service.</p> <p>Legible copy of your sales receipt must be submitted with the unit at the time the unit is returned for warranty service.</p> |
| For Post Warranty Repair | <p>For repair or replacement after the Warranty Period has expired,</p> <p>Call 1-800-984-9349 (Monday~ Friday 7 AM ~ 7 PM CT)</p> |
| For Where-to buy, Product Assistance, or Customer Assistance | <p>Call 1-877-9Zenith (1-877-993-6484) (Monday~ Friday 7 AM ~ 8 PM CT and Saturday 8 AM ~ 5 PM CT) and select appropriate option from the menu.</p> <p>Or visit our website at http://www.zenithservice.com</p> |

FOR WARRANTY SERVICE:

You must call 1-800-984-9349 (Monday~ Friday 7 AM to 7 PM CT) and select the appropriate option from the menu to confirm the product is defective and to obtain a Return Authorization (RA). During the Warranty Period, Zenith will send you a return-shipping label. After you obtain a RA for return, please box your unit with a copy of the sales receipt and enough packing material to ensure undamaged delivery of your product. When you receive the label, place it on the box and call the 800 phone number in the instruction for pick-up. When your unit is received, Zenith will repair or replace your unit in accordance with this Limited Warranty.

ADVANCE SHIPMENT. If replacement unit is available and you want second day delivery, our service representative will ask for your credit card number. Zenith requires a reserved deposit by credit card as surety for such advance shipment. Your credit card will not be charged if you return the defective unit in 10 business days. For advance shipment, the return label will come with the replacement unit sent to you. Please follow boxing and shipping instructions above.

ZENITH ELECTRONICS CORPORATION
2000 MILLBROOK DRIVE
LINCOLNSHIRE, IL 60069

Zenith Part No. 206-3831
GS# 3835RS0042B
Printed in China
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