DVD KARAOKE SYSTEM

OWNER'S MANUAL

MODEL : KD200KZ

Please read this manual carefully before operating your set. Retain it for future reference.

Designs and specifications are subject to change without notice for improvement.

Safety Precautions

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

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

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

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

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from over heating.
The openings should be never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instruction have been adhered to.

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

CAUTION:

This Product 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.

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

CAUTION concerning the Power Cord

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

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

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

Disposal of your old appliance

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

Table of Contents

Introduction

Safety Precautions 2
Table of Contents 3
Before Use 4-5
Playable Discs 4
Notes on Discs 4-5
Precautions 5
About Symbols 5
Features 5
Front Panel and Rear Panel 6
Remote Control 7

Preparation

Connections 8-9
Connecting to a TV 8
Connecting to Optional Equipment 9
Before Operation 10-15
Mini Glossary for Audio Stream & Surround Mode 10
Sound Mode 10
General Explanation 11
On-Screen Display 11
Initial Settings 12-15
● General Operation 12
● LANGUAGE 12
● DISPLAY 12
● AUDIO 13
● LOCK (Parental Control) 14
● OTHERS 15

Operation

Operation with DVD 15-17
Playing a DVD 15
General Features 16-17
● Moving to another TITLE 16
● Moving to another CHAPTER/TRACK 16
● Search 16
● Still Picture and Frame-by-Frame Playback 16
● Slow Motion 16
● Repeat 16
● Repeat A-B 16
● Time Search 16
● Zoom 17
● Marker Search 17
Special DVD Features 17
● Title Menu 17
● Disc Menu 17
● Camera Angle 17
● Changing the Audio Language 17
● Changing the Audio Channel 17
● Subtitle 17
Operation with Audio CD and MP3/WMA File 18
Playing an Audio CD and MP3/WMA File 18
● Pause 18
● Moving to another Track 18
● Repeat Track/ All/ Off 18
● Search 18
Operation with JPEG Disc 19
Viewing a JPEG disc 19
● Slide Show 19
● Moving to another File 19
● Still Picture 19
● To rotate picture 19
● Zoom 19
Programmed Playback 20
● Repeat Programmed Tracks 20
● Erasing a Track from Program List 20
● Erasing the Complete Program List 20
Operation with DivX Disc 21
Operation with KARAOKE 22-26
Karaoke Basic Playback 22
Karaoke Advanced Playback 22-23
Karaoke MENU Playback 23-26
● SETUP 23
● MUSIC LIST 24-25
● RANDOM 26
● CHALLENGE 26

Reference

Language Code List 27
Area Code List 27
Troubleshooting / Specifications

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

In addition, this unit can play a DVD±R, DVD±RW, and CD-R or CD-RW that contains audio titles, MP3, WMA, JPEG or DivX files.

Notes

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

Regional code

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

Notes on Regional Codes

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

ote on DTS-encoded CDs

When playing DTS-encoded CDs, excessive audio level may be heard from the analog stereo output. To avoid possible damage to the audio system, turn down the volume before playing back such discs, adjust the volume gradually, and keep the volume level low. 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 unit.

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. Depending on the disc, chapters may not be recorded.

Notes on Discs

Handling discs

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

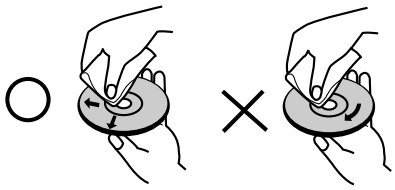


Storing discs

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

Cleaning discs

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



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

Precautions

Handling the unit

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

When setting up the unit
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, or 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 leave rubber or plastic products in contact with the unit for a long period of time. They will leave marks on the surface.

Cleaning the unit

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

To obtain a clear picture
The DVD player is a high-tech, precision device. If the optical pick-up lens and disc drive parts are dirty or worn, 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.

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 disc.

About the disc symbols for instructions

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

- DVD — DVD
- CD — Audio CDs
- MP3 — MP3 disc
- WMA — WMA disc
- JPEG — JPEG disc
- DivX — DivX disc

Features

System Select

You must select the appropriate system mode for your TV system. If *"no dISC"* appears in the display window, press and hold ►/II on the front panel or PAUSE/STEP on the remote control for more than 5 seconds to be able to select a system (PAL, NTSC, or AUTO).

- When the selected system does not coincide with the system of your TV, normal color picture may not be displayed.

AUTO: Select when DVD player is connected with Multi system TV.

NTSC: Select when DVD player is connected with NTSC-TV.

PAL: Select when DVD player is connected with PAL-TV.

Last Scene Memory DVD

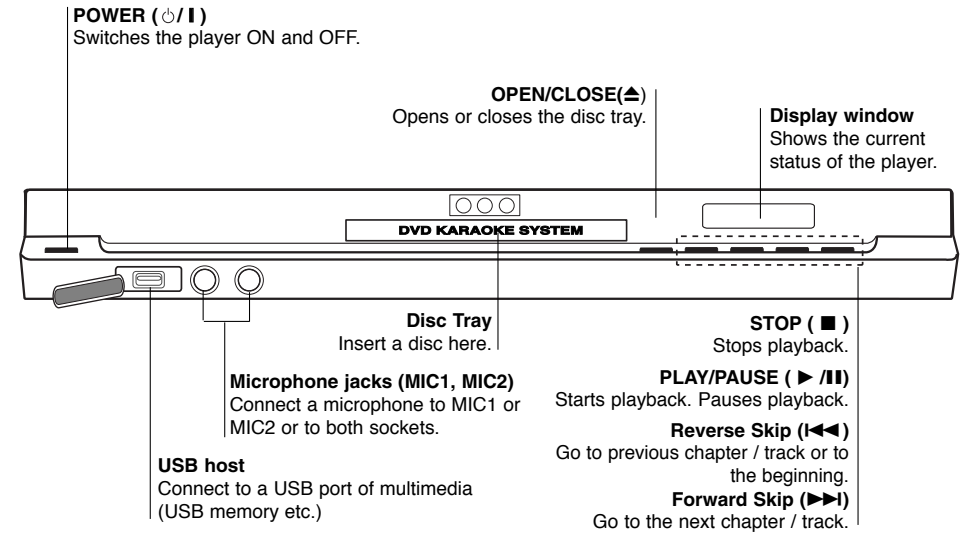
This player memorizes the user settings for the last disc that you have viewed. Settings remain in memory even if you remove the disc from the player or switch off the player. If you load a disc that has its settings memorized, the latest stop position is automatically recalled.

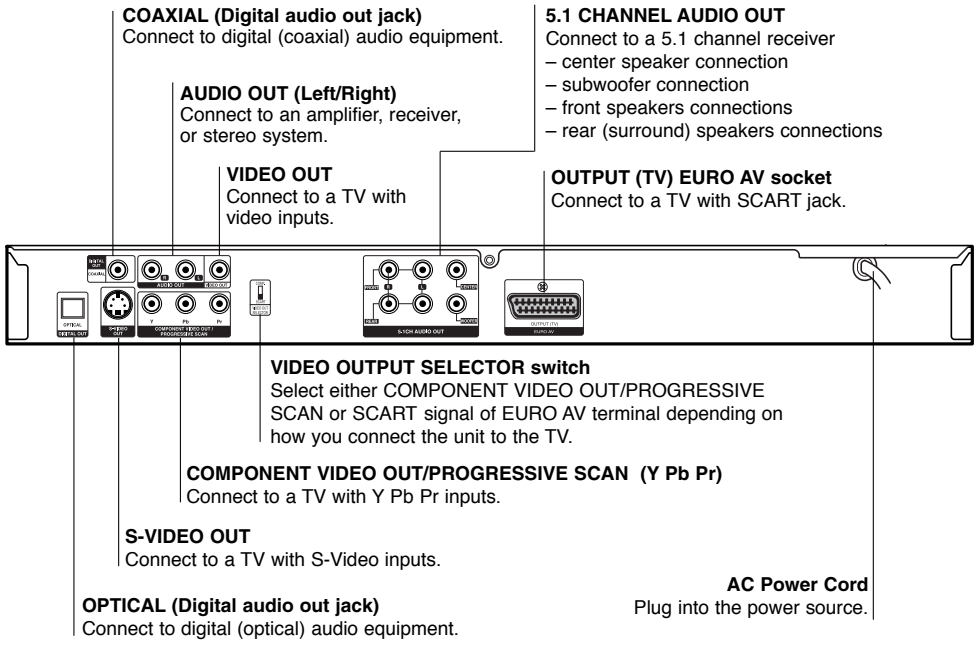
Notes
– Settings are stored in memory for use any time.
– This player does not memorize settings of a disc if you switch off the player before commencing to play it.

Screen Saver

The screen saver picture appears when you leave the DVD Player in stop mode for about five minutes.
After the Screen Saver has been engaged for about five minutes, the DVD Player will automatically turn itself off.

Front Panel and Rear Panel

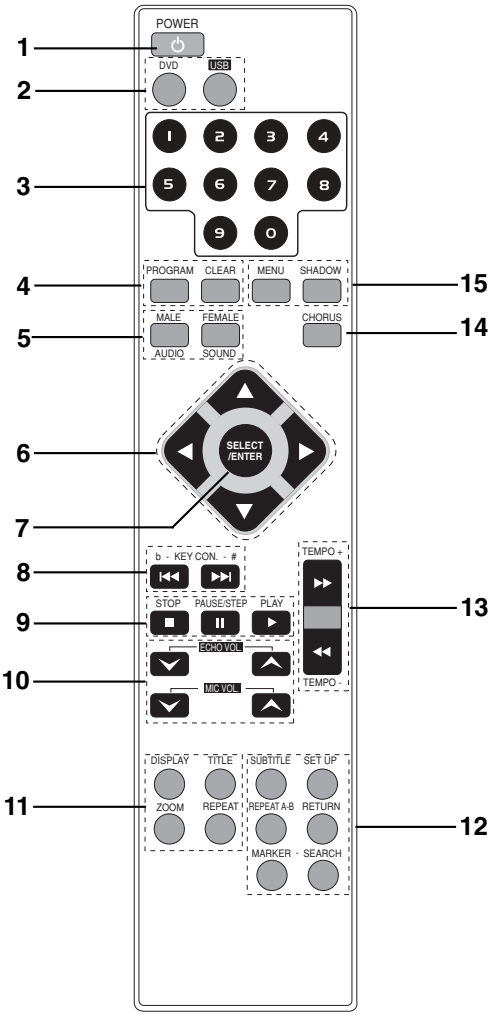




⚠ **Caution**

– Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit.
– Set the VIDEO OUTPUT SELECTOR switch in standby mode in order to use COMPONENT VIDEO OUT/ PROGRESSIVE SCAN or SCART signal of EURO AV terminal .

Remote Control



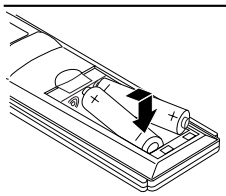
1. POWER button
2. • DVD button
   • USB button
3. NUMERIC buttons (0-9)
4. • PROGRAM button
   • CLEAR button
5. • AUDIO button
   • MALE button
   • SOUND button
   • FEMALE button
6. ARROW buttons (▲/▼/◀/▶)
   (For use in highlighting a selection on a TITLE and MENU screen.)
7. SELECT/ENTER button
8. • KEY CONTROL (b/#) buttons
   • SKIP (I◀◀ /▶▶I) buttons
9. • STOP (■) button
   • PAUSE/STEP button
   • PLAY (▶) button
10. • ECHO volume control (ECHO VOL. ▼/▲) buttons
    • Microphone volume control (MIC VOL. ▼/▲) buttons
11. • DISPLAY button
    • TITLE button
    • REPEAT button
    • ZOOM button
12. • SUBTITLE button
    • SET UP button
    • REPEAT A-B button
    • RETURN button
    • MARKER button
    • SEARCH button
13. • TEMPO(-/+) buttons
    • SCAN (◀◀/▶▶) buttons
14. CHORUS button
    (When a Song with chorus function is played, use this button.)
15. • MENU button
    • SHADOW button

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.).

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 9.

Caution

– Make sure the DVD Player is connected directly to the TV. Tune the TV to the correct video input channel.
– Do not connect the DVD Player's AUDIO OUT jack to the phono in jack (record deck) 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.

Video connection

1 Connect the VIDEO OUT jack on the DVD Player to the video in jack on the TV using the video cable **(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 audio cables.

S-Video connection

1 Connect the S-VIDEO OUT jack on the DVD Player to the S-Video in jack on the TV using the 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 audio cables.

Component Video (Color Stream®) connection

1 Connect the COMPONENT VIDEO OUT/ PROGRESSIVE SCAN jacks on the DVD Player to the corresponding in jacks on the TV using an 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 audio cables.

SCART connection

Connect the EURO AV OUTPUT (TO TV) socket on the DVD Player to the corresponding in jacks on the TV using the scart cable **(T)**.

Progressive Scan (ColorStream® pro) 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.

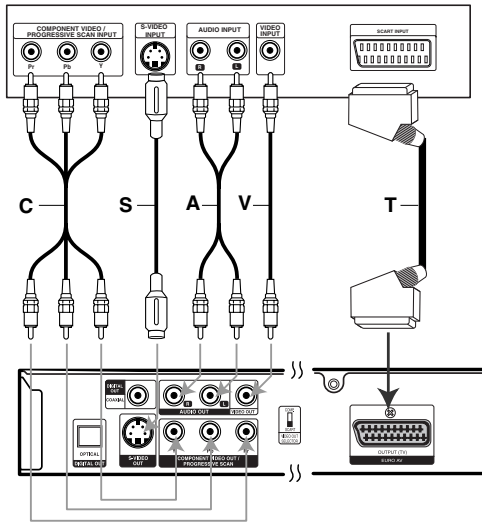
1 Connect the COMPONENT VIDEO OUT/ PROGRESSIVE SCAN jacks on the DVD Player to the corresponding in jacks on the TV using an optional Y Pb Pr cable **(C)**.

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.

Notes

– Set the Progressive to "On" on the setup menu for progressive signal, see page 12.
– Progressive scan does not work with the analog video connections (yellow VIDEO OUT jack).

Rear of TV



Rear of DVD player

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

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

Connect one of the DVD Player's DIGITAL AUDIO OUT jacks (OPTICAL **O** or COAXIAL **X**) to the corresponding in jack on your amplifier. Use an optional digital (optical **O** or coaxial **X**) audio cable.

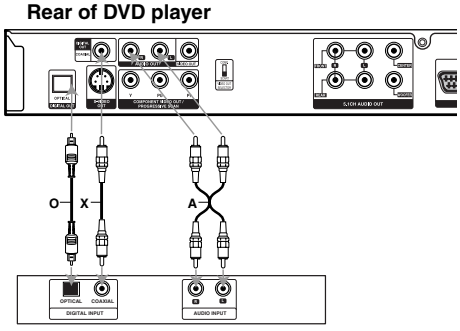
Digital Multi-channel sound

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.

Caution:

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

Rear of DVD player



Amplifier (Receiver)

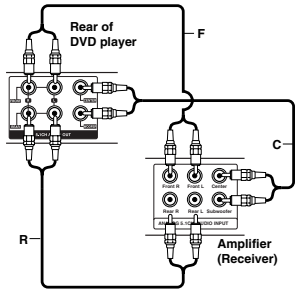
Notes

– 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.
– Six Channel Digital Surround Sound via digital connection can only be obtained if your receiver is equipped with a Digital Multi-channel decoder.
– To see the audio format of the current DVD in the on-screen display, press AUDIO.

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

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

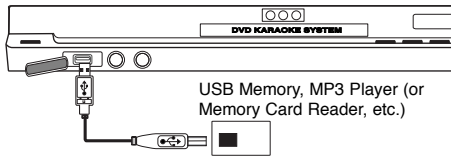
1. Connect the CENTER and WOOFER jacks for the Center speaker and the Subwoofer **(C)** to the corresponding in jacks on your receiver.
2. Connect the Left and Right FRONT speaker jacks **(F)** to the corresponding in jacks on your receiver.
3. Connect the Left and Right REAR speaker jacks **(R)** to the corresponding in jacks on your receiver.
4. Make the appropriate Sound settings for Analog Output and Speaker Settings in the setup menu. See page 13.



Connect to a USB port of multimedia (USB memory etc.)

1. Connect the USB port of a USB Memory (or MP3 player, etc.) to the USB HOST on the front of the unit.

Front of DVD player



2. Select USB function pressing the USB button on the remote control.

Notes

- The DivX files in your memory card will not be able to be played.
- Don't insert the more than one memory card in the multi card reader.
- The unit may not be supported a part of memory card or multi card reader.
- Don't insert or pull out the memory card from the card reader when using the card reader.

Mini Glossary for Audio Stream & Surround mode

dts

Allows you to enjoy 5.1(or 6) discrete channels of high quality digital audio from DTS program sources such as discs, DVD and compact discs, etc.bearing the trademark. DTS Digital Surround delivers up to 6 channels of transparent audio(which means identical to the original masters) and results in exceptional clarity throughout a true 360 degree sound field. “DTS” and “DTS Digital Surround” are registered trademarks of Digital Theater Systems, Inc.

DIGITAL

The Dolby Digital surround format lets you enjoy up to 5.1 channels of digital surround sound from a Dolby Digital program source. If you play DVDs with “ ” mark, you can enjoy even better sound quality, greater spatial accuracy, and improved dynamic range.
Manufactured under license from Dolby Laboratories. “Dolby”, “Pro Logic” and double-D symbol are trademarks of Dolby Laboratories.

PRO LOGIC II

Dolby Pro Logic II creates five full-bandwidth output channels from two-channel sources. This is done using an advanced, high-purity matrix surround decoder that extracts the spatial properties of the original recording without adding any new sounds or tonal colorations.

MOVIE mode:
The Movie mode is for use with stereo television shows and all programs encoded in Dolby Surround. The result is enhanced soundfield directionality that approaches the quality of discrete 5.1-channel sound.

MUSIC mode:
The Music mode is for use with any stereo music recordings.

MATRIX mode:
The Matrix mode is the same as the Music mode except that the directional enhancement logic is turned off. It may be used to enhance mono signals by making them seem “larger.” The Matrix mode may also find use in auto systems, where the fluctuations from poor FM stereo reception can otherwise cause disturbing surround signals from a logic decoder. The ultimate “cure” for poor FM stereo reception may be simply to force the audio to mono.

BYPASS

Outputs the sound from the front left and right speakers and subwoofer.

Sound Mode DVD CD

You can enjoy surround sound simply by selecting one of the pre-programmed sound fields according to the program you want to listen to.

When DVD is inserted

You can change the Digital Audio Output mode by pressing the **AUDIO** button on the remote control during playback. Although the DVD contents differ from disc to disc, the following explains the basic operation when this feature is used.

a) After you select 2 channel (For example or) by pressing AUDIO button, press SOUND button repeatedly.
The sound mode of DVD is changed on the TV screen as the following order.

Bypass → MOVIE → MUSIC →
MATRIX → Bypass ...

b) After you select 5.1 channel (For example or) by pressing AUDIO button, press SOUND button.
- “ ” indicator will be displayed on the TV screen.

When CD is inserted

Each time you press SOUND button, the sound mode of CD is changed on the screen as the following order.
BYPASS → STUDIO → CLUB→ HALL→ THEATER1 → CHURCH → MOVIE → MUSIC → MATRIX → BYPASS...

For your reference

- **Initial sound of DVD function is BYPASS.**
- **You can identify the encoding format of program software by looking at its packaging.**
  - Dolby Digital discs are labeled with the logo.
  - Dolby Surround encoded programs are labeled with the logo.
  - DTS Digital Surround discs are marked with DTS.

Note

When you play sound tracks with 96kHz sampling frequency, the output signals will be converted to 48kHz (sampling frequency).

General Explanation

This manual gives basic instructions for operating the DVD Karaoke. 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 Karaoke or is not available on the disc.

On-Screen Display

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

On-screen display operation

1 **Press DISPLAY during playback.**

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

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

Temporary Feedback Field Icons

Title Repeat title

A - B Repeat sequence

Resume play from this point

✋ Action prohibited or not available

Notes

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

Example: On-Screen Display during playing DVD

Items		Selection Method
Title Number	1 / 3	◀ / ▶, Numbers or SELECT/ENTER
Chapter Number	1 / 12	◀ / ▶, Numbers or SELECT/ENTER
Time search	0:20:09	Numbers, SELECT/ENTER
Audio language and Digital Audio Output mode	1 ENG DD 5.1 CH	◀ / ▶ or AUDIO
Subtitle language	1 ENG	◀ / ▶
Angle	1 / 3	◀ / ▶
Sound	Bypass	◀ / ▶ or SOUND

Example: On-Screen Display during playing DivX movie disc

Items		Selection Method
Title Number	1 / 3	◀ / ▶, Numbers or SELECT/ENTER
Chapter Number	1 / 12	◀ / ▶, Numbers or SELECT/ENTER
Time search	0:20:09	Numbers, SELECT/ENTER
Audio language and Digital Audio Output mode	1 ENG DD 5.1 CH	◀ / ▶ or AUDIO
Subtitle language	1 ENG	◀ / ▶
Sound	Bypass	◀ / ▶ or SOUND

Initial Settings

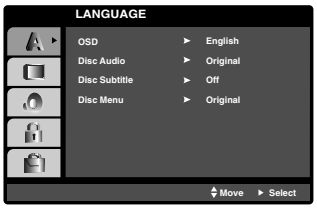
By using the Setup menu, you can make various adjustments to items such as picture and sound. You can also set a language for the subtitles and the Setup menu, among other things. For details on each Setup menu item, see pages 12 to 15.

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 will be shown 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 SELECT/ENTER to confirm your selection.**
   Some items require additional steps.
5. **Press SETUP or PLAY to exit the setup menu.**

LANGUAGE



OSD

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

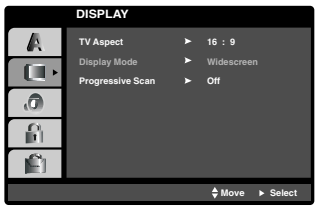
Disc Audio / Subtitle / Menu DVD

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 to enter the corresponding 4-digit number according to the language code list on page 27. If you enter the wrong language code, press CLEAR on the remote control.

DISPLAY



TV Aspect DVD

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

16:9: 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 DVD

Progressive Scan Video provides higher 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:

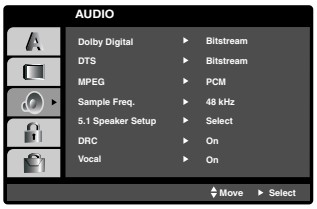
Connect component out of the DVD to the input of your monitor/television, set your television or monitor to Component Input.

1. Select "Progressive Scan" on the DISPLAY menu then press ▶.
2. Select "On" using the ▲ / ▼ buttons.
3. Press SELECT/ENTER to confirm your selection. The confirm menu will appear.
4. When the confirm menu appears on your screen "Cancel" is highlighted as default. Use the ◀ / ▶ buttons to highlight "Enter".
5. Pressing SELECT/ENTER will set the player 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 "*no dISC*" is displayed in the display window
2) 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 the player's AUDIO options according to the type of audio system you use.



Dolby Digital / DTS / MPEG DVD

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 : 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.

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.

5.1 Speaker Setup DVD

Select speaker settings, including volume balance and distance, or test the speaker settings.
Speaker settings are only active on the Analog Multi-Channel Output.

Speaker Setup

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

1. Press SETUP. The setup menu appears.
2. Use ▲ / ▼ to select the AUDIO option then press ▶ to move to the second level.
3. Use ▲ / ▼ to select the 5.1 Speaker Setup then press ▶ to move to the third level. "Select" is highlighted.
4. Press SELECT/ENTER and 5.1 Speaker Setup menu appears.
5. Use ◀ / ▶ to select the desired speaker.
6. Adjust options using ▲ / ▼ / ◀ / ▶ buttons.
7. Press SELECT/ENTER to confirm your selection. Returns to the previous menu.

Speaker selection

Select a speaker that you want to adjust. [Front speaker (Front L), Front speaker (Front R), Center Speaker (Center), Subwoofer (Subwoofer), Rear speaker (Rear L), Rear speaker (Rear R)]

Size

Since the speaker settings are fixed, you cannot change the setting.

Volume

Press ◀ / ▶ to adjust the output level of the selected speaker. (-5dB ~ 5dB)

Distance

If you have connected speakers to your DVD Player, setting the Distance lets the speakers know how far the sound has to travel to reach your set listening point. This allows the sound from each speaker to reach the listener at the same time.
Press ◀ / ▶ to adjust the Distance of the selected speaker (Center, Rear L and Rear R).

Test

Select "All" to test the signals of each speaker.
Adjust the volume to match the volume of test signals memorized in the system.
Front L → Center → Front R → Rear R →Rear L → Subwoofer

You can adjust the volume during operating the test tone, first use ▲ / ▼ to select Volume or Speaker option then use ◀ / ▶ buttons to select volume or speaker, so that all speaker's volume is same from the listener's position.

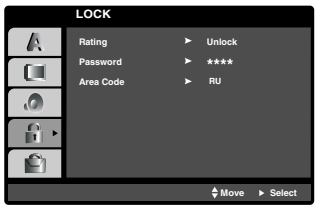
Dynamic Range Control (DRC) DVD

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.

Vocal DVD

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

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, thereby preventing your children from being able to view material you believe is unsuitable.

1 **Select "Rating" on the LOCK menu then press ▶.**

2 **To access the Rating, Password and Area Code features, you must input the 4-digit security code you created.**
If you have not yet entered a security code you are prompted to do so.

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

Note

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.

4 **Press SELECT/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 ▶.
2 Follow step 2 as shown left (Rating). "Change" or "New" is highlighted.
3 Enter the new 4-digit code, then press SELECT/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 Select Password on the LOCK menu.
2 Input the 6-digit number "210499" on the setup menu and the security code is cleared.
3 Enter a new code as described above.

Note

When " INPUT PASSWD ■■■■ " appears on the TV screen, press STOP (■) and then press SETUP to move to the setup menu.

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.

1 **Select "Area Code" on the LOCK menu then press ▶.**

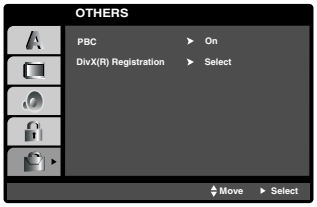
2 **Follow step 2 as shown left (Rating).**

3 **Select the first character using ▲ / ▼ buttons.**

4 **Shift the cursor using ▶ button and select the second character using ▲ / ▼ buttons.**

5 **To complete the area code selection, press SELECT/ENTER.**

OTHERS



PBC (Playback Control)

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

DivX(R) Registration DivX

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

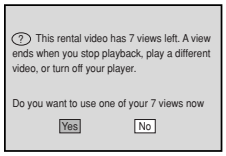


The Registration code is used for VOD (Video-On-Demand) service agent. You can purchase or rental an encrypt movie file.

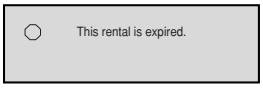
Notes

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

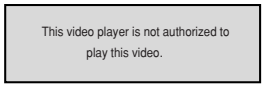
- Display the number which you can watch the file.



- The rental has been expired.



- Display the authorization error.



Playing a DVD

Playback Setup

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

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

2 **Load your chosen disc in the tray, with the playback side facing down.**

3 **Press ⏏ OPEN/CLOSE button to close the tray.** Playback starts automatically. If playback does not start, press PLAY.
In some cases, the disc menu might appear instead.

If a menu screen is displayed

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

DVD

Use the ▲ / ▼ / ◀ / ▶ buttons to select the title/chapter you want to view, then press SELECT/ENTER to start. Press TITLE or 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 14.)
– 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 5 (five).

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 DivX

When a disc has more than one title, you can move to another title. Press DISPLAY during playback then the appropriate number (0-9) or use ◀/▶ to move to another title.
You can play any title by inputting its number during playback.

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 ⏭ briefly during playback to select the next chapter/track or to return to the beginning of the current chapter/track.
- Press ⏮ 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.
The player will now go into SEARCH mode.
2 Press ◀◀ or ▶▶ repeatedly to select the required speed.
DVD; X2, X4, X8, X16, X100
DivX; X2, X4, X8, X16
3 To exit SEARCH mode, press PLAY.

Still Picture and Frame-by-frame playback

DVD DivX

1 Press PAUSE/STEP on the remote control 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.
3 To exit still motion mode, press PLAY.

Slow Motion DVD

1 Press PAUSE/STEP on the remote control during playback.
The player will enter PAUSE mode.
2 Use the ◀◀/▶▶ to select the required speed: ◀❙ 1/2, ◀❙ 1/4, ◀❙ 1/8 or ◀❙ 1/16 [(backward) - DVD only] or ❙▶ 1/2, ❙▶ 1/4, ❙▶ 1/8 or ❙▶ 1/16 (forward).
3 To return to normal PLAY, press PLAY.

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.

DivX - Repeat Track/All/Off
- Track : repeats the current track
- All : repeats all the tracks on a disc.
- Off : does not play repeatedly.

Repeat A-B DVD

To repeat a sequence in a title:

1 Press REPEAT A-B at your chosen starting point.
" A - " appears briefly on the TV screen.
2 Press REPEAT A-B again at your chosen end point.
"A - B" appears briefly on the TV screen, and the repeat sequence begins.
3 To cancel the sequence, press REPEAT A-B.

Time Search DVD DivX

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

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

General Features (continued)

Zoom DVD

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

1 Press ZOOM during playback or still playback to activate the Zoom function.
If you press ZOOM repeatedly, the magnification level increases up to four steps.
100% size (screen fit mode) → 400% size → 800% size→ 1600% size → 100% size (screen fit mode)

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

Note
The zoom function may not work for some DVDs.

Marker Search DVD DivX

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

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

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

To Recall a Marked Scene

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

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

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

4 To remove the MARKER SEARCH menu, press SEARCH.

To clear a Marked Scene

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

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

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

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

5 To remove the MARKER SEARCH menu, press SEARCH.

Special DVD Features DVD

Checking the contents of DVD Video discs: Menus

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

Title Menu DVD

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

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

3 To remove the title menu, press TITLE again.

Disc Menu DVD

Press MENU.
The disc menu is displayed.

Camera Angle DVD

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

1 Press DISPLAY and then press the ▲ / ▼ to select a angle.
The number of the current angle (1/3) appears on the screen.

2 Select a desired angle pressing the ◀ / ▶ buttons.

Changing the Audio Language

DVD DivX

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

Subtitle DVD DivX

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

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

Playing an Audio CD and MP3/WMA file CD MP3 WMA

The unit can play audio CD and MP3/WMA.

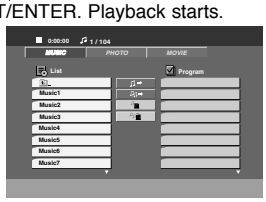
Audio CD

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



MP3 / WMA

1. Press ▲ / ▼ to select a folder, and press SELECT/ENTER to see the folder contents.
2. Press ▲ / ▼ to select a track then press PLAY or SELECT/ENTER. Playback starts.



Notes

- If you are in a file list on the MUSIC menu and want to return to the Folder list, use the ▲ / ▼ to highlight .. and press SELECT/ENTER.
- Press MENU to go to the next page.
- On a CD with MP3/WMA file and JPEG file, you can switch MP3/WMA and JPEG menu. Press TITLE and MP3/WMA or JPEG word on top of the menu is highlighted. Then, use ◀ / ▶ to select MP3/WMA or JPEG then press SELECT/ENTER.

Pause CD MP3 WMA

1 Press PAUSE/STEP during playback.

2 To return to playback, press PLAY or press PAUSE/STEP again.

Moving to another Track CD MP3 WMA

- Press ⏮ or ⏭ briefly during playback to go to the next track or to return to the beginning of the current track.
- Press ⏮ twice briefly to step back to the previous track. (When playing time is less than 4 seconds, press this button.)
- In case of audio CD, to go directly to any track, enter the track number using the numbered buttons (0-9) during playback.

Repeat Track/All/Off CD MP3 WMA

You can play a title/chapter/all/track 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.

Search CD MP3 WMA

1 Press ◀◀ or ▶▶ during playback.
The player will now go into SEARCH mode.

2 Press ◀◀ or ▶▶ repeatedly to select the required speed: ◀◀X2, ◀◀X4,◀◀X8 (backward) or ▶▶X2, ▶▶X4, ▶▶X8 (forward).

3 To exit SEARCH mode, press PLAY.

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

- Sampling frequency: within 32 - 48 kHz (MP3), within 24 - 48kHz (WMA)
- Bit rate: within 32 - 320kbps (MP3), 40 - 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 / ? * : " < > | etc.
- The total number of files on the disc should be less than 999.

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.

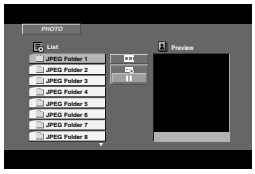
Customers should note that permission is required in order to download MP3 / WMA files and music from the Internet. Our company has no right to grant such permission. Permission should always be sought from the copyright owner.

Operation with JPEG Disc

Viewing a JPEG disc JPEG

This unit can play discs with JPEG files. Before playing JPEG recordings, read the notes on JPEG Recordings on right.

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



2 **Press ▲ / ▼ to select a folder, and press SELECT/ENTER. A list of files in the folder appears.**

Tip

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 SELECT/ENTER to return to the previous menu screen.

3 **If you want to view a particular file, press ▲ / ▼ to highlight a file and press SELECT/ENTER or PLAY.**
Slide Show starts from the selected file if Speed option is not Off.
While viewing a file, you can press STOP(■) to move to the previous menu (JPEG menu).

Tip

- Press MENU to move to the next page.
- There are four Slide Speed options: :
  > (Slow), >> (Normal), >>> (Fast) and II (off).
  Use ▲ / ▼ / ◀ / ▶ to highlight the Speed. Then, use ◀ / ▶ to select the option you want to use then press SELECT/ENTER.
- If you set Speed option to Off, Slide Show is not active.

Slide Show

Use ▲ / ▼ / ◀ / ▶ to highlight the (Slide Show) then press SELECT/ENTER.

Moving to another File

Press ⏮ or ⏭ once during viewing a picture to advance to the next file or to the previous file.

Still Picture

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

To rotate picture

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

Zoom

The Zoom function allows you to enlarge or reduce the video image.

1 Press ZOOM repeatedly.
Zoom on ⟷ Zoom off
2 Use the ▲ / ▼ / ◀ / ▶ buttons on the "Zoom on" mode.

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 3760 x 3840 pixels and burn another disc.
- The total number of files and folders on the disc should be less than 999.
- 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 player. Even though the files are shown as JPEG image files in Windows Explorer.

Programmed Playback CD MP3 WMA

The Program function enables you to store your favorite tracks from any disc in the player memory.
A program can contain 99 tracks (Audio CD) or 300 tracks (MP3/WMA).

1 Insert a disc.

Audio CD and MP3/WMA Discs:
Audio CD or MP3/WMA menu appears as below.



Audio CD Menu



MP3/WMA Menu

2 Select a track on the List.

3 Press PROGRAM. Or, select " (Add)" icon then SELECT/ENTER to place the selected track on the Program list. Repeat to place additional tracks on the list.

Note
You can add all tracks in the disc. Select " (Add All)" icon then press SELECT/ENTER.

4 Select the track you want to start playing on the Program list.

Tip
Press MENU to move to the next page.

5 Press PLAY or SELECT/ENTER to start.
Playback begins in the order in which you programmed the tracks. Playback stops after all of the tracks on the Program list have played once.

Repeat Programmed Tracks

You can play a title/chapter/all/track 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.

Erasing a Track from Program List

1 Use / / / to select the track that you wish to erase from the Program list.
2 Press CLEAR. Or, select " (Delete)" icon then Press SELECT/ENTER to place the selected track on the Program list. Repeat to erase additional tracks on the list.

Erasing the Complete Program List

Select " (Del all)", then press SELECT/ENTER. The complete Program for the disc is erased.

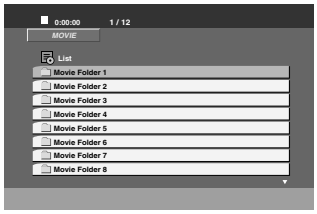
Note
The programs are also cleared when the disc is removed.

To resume normal playback from programmed playback
Select a track on the List then press SELECT/ENTER.

Operation with DivX Disc

The unit can play the DivX files.

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



2 **Press ▲ / ▼ to select a folder, and press SELECT/ENTER to see the folder contents.**

Tip

If you are in a file list and want to return to the Folder list, use the ▲ / ▼ buttons on the remote control to highlight " .. " and press SELECT/ENTER to return to the previous menu screen.

3 **If you want to view a particular file, press ▲ / ▼ to highlight a file and press SELECT/ENTER or PLAY.**
Playback starts.

Notes

- Be sure to select "SUBTITLE ON" mode by pressing the subtitle file every time before playing a DivX file .
- When the subtile has more than two languages in the file, original subtile is only available.
- The DivX files in your memory card can not be played.
- The microphone does not work during playing a DivX file.

Notice for displaying the Divx subtitle

If the subtitle does not display properly during playback, press and hold SUBTITLE about 3 seconds then press SUBTITLE to select another language code until the subtitle is displayed properly.

Display DivX

Press DISPLAY during playback.

General playback status can be displayed on the TV screen.

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 20-40 characters (differs from language).
- 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.**

Playable DivX subtitle file

● SubRip(*.srt/*.txt)
SAMI(*.smi)
SubStation Alpha(*.ssa/*.txt)
MicroDVD(*.sub/*.txt)
SubViewer 2.0(*.sub/*.txt)
VobSub(*.sub)

Playable DivX file

● ".avi ", ".mpg ", ".mpeg "

Playable Codec format

● "DIVX3.xx ", "DIVX4.xx ", "DIVX5.xx ", "MP43 ", "3IVX ", "MP42 ".

Playable Audio format

● "AC3 ", "DTS ", "PCM ", "MP3 ", "WMA ".
- Sampling frequency: within 32 - 48 kHz (MP3), within 24 - 48kHz (WMA)
- Bit rate: within 32 - 320kbps (MP3), 40 - 192kbps (WMA)

Operation with KARAOKE

You can play KARAOKE(singing along) with CD by connecting a microphone to the unit.
You can enjoy KARAOKE with a stereo-recorded disc, even if it is a non-karaoke disc, by reducing the singer's voice.

Karaoke Basic Playback

1 **Check if the system is connected.**
(Refer to the page 8-9.)

2 **Turn on the powers of TV (or Amplifier) and DVD Karaoke and enter to the video mode on TV.**

3 **Press ⏏ OPEN/CLOSE to open the disc tray and load supplied karaoke disc in the tray with the label facing up.**

4 **Press ⏏ OPEN/CLOSE to close the tray.**

[TV Screen]



5 **Connect the microphone to the MIC 1 or MIC 2 jack.**

6 **Select the melody number you want by pressing NUMERIC buttons.**
If you cancel the selected melody number, press the CLEAR.

7 **Press PLAY or SELECT/ENTER.**
The selected melody number is played.
Sing in tone with microphone.
After melody ends, it is stopped automatically and score appears.

Note
Don't connect the microphone during playing DivX disc.

Karaoke Advanced Playback

Return Function

This is a function that returns to the preceding MENU.

Press the RETURN .

Note
If there is no preceding menu (in case of the first menu), this function may not be executed.

To Adjust MIC Volume

Press the Microphone volume control (MIC VOL. ▼/▲) button on the remote control clockwise to increase the volume, or counterclockwise to decrease it. (0~15 steps)

To Adjust ECHO Volume

You can give an echo effect to the sound from the microphones.

Press the ECHO volume control (ECHO VOL. ▼/▲) button on the remote control clockwise to increase the echo, or counterclockwise to decrease it. (0~15 steps)

Key Control

You can change the key to suit your vocal range.
You can adjust the key to 13 steps (6steps higher, 6steps lower and the original key).
- The setting appears on the screen.

Press KEY CONTROL (b/#) repeatedly on the remote control to find the key that suits your vocal range.

- To flatten the key one by one, press the KEY CONTROL (b) repeatedly during playback.
- To sharp the key one by one, press the KEY CONTROL (#) repeatedly during playback.
- To return to the original key, press the KEY CONTROL (b/#) repeatedly to appear the original key.

Operation with KARAOKE

Reserving the Songs

When you want to make a reservation of next melody, you can enjoy the most 8 melodies reservation without waiting.

1 **Press the NUMERIC buttons to reserve melody number you want in the karaoke disc play mode.**
Melody number appears on the TV screen.

2 **Press PROGRAM.**
The melody number is made a reservation.

3 **Repeat steps 1-2.**
You can reserve 8 songs.

Tip
After the one song finishes its playback, the next song will be playback automatically.

To cancel the reserved song

Each time you press CLEAR, the reserved song will be cancelled one by one.

To cancel or change the wrong reserved song

Press the PROGRAM to move to the desired position, then press the CLEAR to cancel the reserved song.

Male/Female Function

If you want to sing a song of MAN's or WOMEN's key, press MALE/FEMALE button repeatedly to change MAN's or WOMEN's key.

Tempo Change

You can use this function when you want to play fast or slow.

- **Press TEMPO + repeatedly during singing to play faster.**
- **Press TEMPO - repeatedly during singing slower.**

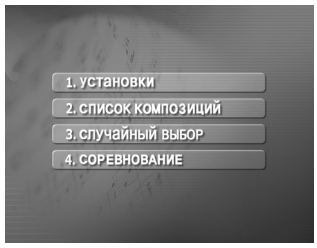
Shadow Function

If some CD caption and the song's subtitle are mixed up, the song's subtitle may be invisible. In this case, to highlight the song's subtitle, press SHADOW.
- It will be highlighted by background shadow image.

Karaoke MENU Playback

Preparation
Press MENU on the karaoke mode.
The main MENU appears on the screen.

Main MENU (On the TV screen)



SETUP (УСТАНОВКИ)

1 **Select 1. УСТАНОВКИ by pressing ▲ / ▼ on the main menu.**

2 **Use ◀ / ▶ to select the desired option, and press SELECT/ENTER.**



SCORE ON/OFF (1. БАЛЛЫ ВКЛ ВЫКЛ)

ВКЛ: When singing by selection of melody, song score comes out after one piece of song is ended.

To cancel it, select the ВЫКЛ.

FANFARE ON/OFF (2. ФАНФАРЫ ВКЛ ВЫКЛ)

ВКЛ: In condition of POWER ON, scoring fanfare operates. The fanfare sound comes out after singing finished.

To cancel it, select the ВЫКЛ.

LYRIC ON/OFF (3. Текст песни ВКЛ ВЫКЛ)

ВКЛ: When singing by selection of melody, song lyric appears on the TV screen.

To cancel it, select the ВЫКЛ.

CHORUS ON/OFF (4. БЭК-ВОКАЛ ВКЛ ВЫКЛ)

ВКЛ: When singing by selection of melody, song chorus is heard a sound.

To cancel it, select the ВЫКЛ.

Note
To move to the main menu, press MENU or RETURN.

Operation with KARAOKE

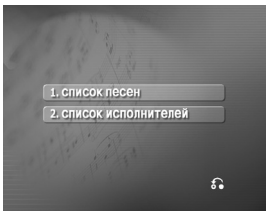
MUSIC LIST (СПИСОК КОМПОЗИЦИЙ)

LOCAL SONG (1. РОССИЙСКИЕ ПЕСНИ) and POP SONG (2. ЗАРУБЕЖНЫЕ ПЕСНИ)

1 **Select 2. СПИСОК КОМПОЗИЦИЙ by pressing the ▲ / ▼ on the main menu.**
The LOCAL SONG, POP SONG and CLASSIC menu will be shown on the TV screen.

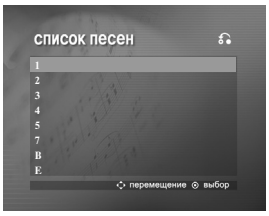


2 **Select 1. РОССИЙСКИЕ ПЕСНИ or 2. ЗАРУБЕЖНЫЕ ПЕСНИ by pressing the ▲ / ▼, and press SELECT/ ENTER.**
SONG LIST and SINGER LIST menu will be shown on the TV screen.



SONG LIST (1. список песен)

1 Select 1. список песен and select the initial of the song title you want by pressing the ▲ / ▼, then press SELECT/ ENTER.

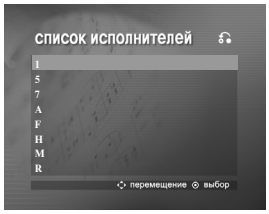


2 Select the song title you want by pressing the ▲ / ▼, and press SELECT/ ENTER.

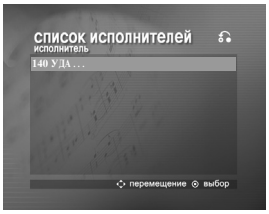


SINGER LIST (2. список исполнителей)

1 Select 2. список исполнителей and select the initial of the singer you want by pressing the ▲ / ▼ in the SONG LIST and SINGER LIST menu, and press SELECT/ ENTER.



2 Select the singer you want by pressing the ▲ / ▼, and press SELECT/ ENTER.



3 Select the song title of the singer you want by pressing the ▲ / ▼, and press SELECT/ ENTER.



Note

- To move the previous mode, select the by pressing the ▲ / ▼, then press SELECT/ ENTER.
- Press ◀ / ▶ to move to the previous or next page.

Operation with KARAOKE

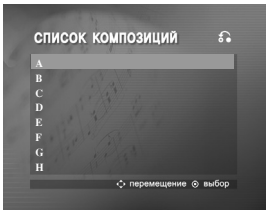
CLASSIC (3. КЛАССИЧЕСКАЯ МУЗЫКА)

1 **Select 3. КЛАССИЧЕСКАЯ МУЗЫКА by pressing the ▲ / ▼, and press SELECT/ ENTER in the LOCAL SONG, POP SONG and CLASSIC menu.**
The CLASSIC LIST and COMPOSER LIST menu will be shown on the TV screen.



CLASSIC LIST (1. СПИСОК КОМПОЗИЦИЙ)

1 Select 1. СПИСОК КОМПОЗИЦИЙ and select the initial of the song title you want by pressing the ▲ / ▼, then press SELECT/ ENTER.

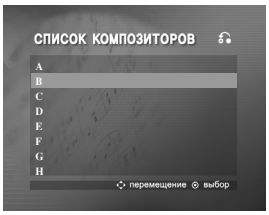


2 Select the song title you want by pressing the ▲ / ▼, and press SELECT/ ENTER.

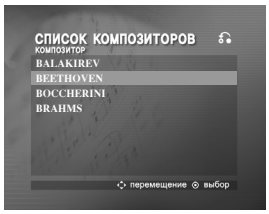


COMPOSER LIST (2. СПИСОК КОМПОЗИТОРОВ)

1 Select 2. СПИСОК КОМПОЗИТОРОВ and select the initial of the composer you want by pressing the ▲ / ▼ in the CLASSIC LIST and COMPOSER LIST menu, and press SELECT/ ENTER.



2 Select the composer you want by pressing the ▲ / ▼, and press SELECT/ ENTER.



3 Select the song title of the composer you want by pressing the ▲ / ▼, and press SELECT/ ENTER.



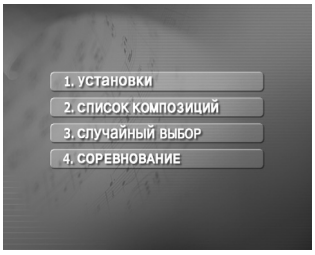
Note

- To move the previous mode, select the by pressing the ▲ / ▼, then press SELECT/ ENTER.
- Press ◀ / ▶ to move to the previous or next page.

Operation with KARAOKE

RANDOM (СЛУЧАЙНЫЙ ВЫБОР)

1 **Select 3. СЛУЧАЙНЫЙ ВЫБОР by pressing ▲ / ▼ on the main menu.**

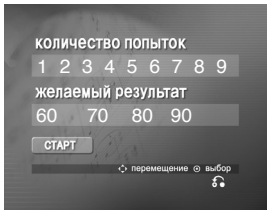


2 **Press SELECT/ENTER to begin randomly.**

CHALLENGE (СОРЕВНОВАНИЕ)

It has a function which enjoy a song game dividing by two teams of red team & blue team.

1 **Select 4. СОРЕВНОВАНИЕ by pressing ▲ / ▼ on the main menu.**
It appears as below.



2 **Select КОЛИЧЕСТВО ПОПЫТОК by pressing ▲ / ▼, and select one of NUMERIC buttons 1~9 by pressing ◀ / ▶ to select winner's number, then press SELECT/ ENTER.**

3 **Select ЖЕЛАЕМЫЙ РЕЗУЛЬТАТ by pressing ▲ / ▼, and select one of 60,70,80 or 90 by pressing ◀ / ▶ to select success score, then press SELECT/ ENTER.**

4 **Select СТАРТ by pressing ▲ / ▼, then press SELECT/ ENTER.**
It appears as below.



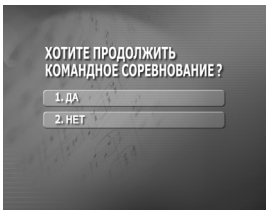
5 **Select number you want by pressing ▲ / ▼ and press SELECT/ ENTER.**
Sing along with the accompaniment.

6 **Repeat step 4~5.**
Change the team of red team or blue team alternately.

7 **When reaching the targeted winning number, the ПОЗДРАВЛЯЕМ! will be shown on the TV screen.**
It appears as below.



8 **Whether you keep going the song game or not, select 1. ДА or 2. НЕТ by pressing ▲ / ▼ as below.**



Language Code List

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

Area Code List

Choose an area from this list.

Country	Code	Country	Code	Country	Code	Country	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	BO	Greece	GR	Nepal	NP	South Korea	KR
Brazil	BR	Greenland	GL	Netherlands	NL	Spain	ES
Cambodia	KH	Islands	HM	Dutch 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

Troubleshooting / Specifications

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

Symptom	Possible Cause	Correction
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.
	• The video cable is not connected securely.	• Connect the video cable securely.
No sound.	• The equipment connected with the audio cable is not set to receive DVD signal output.	• Select the correct input mode of the audio receiver so you can listen to the sound from the DVD player.
	• The power of the equipment connected with the audio cable is turned off.	• Turn on the equipment connected with the audio cable.
	• The AUDIO options are 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 DVD player does not start playback.	• An unplayable disc is inserted.	• Insert a playable disc. (Check the disc type, color system, and regional code.)
	• The rating level is set.	• Cancel the rating function or change the rating level.
The remote control does not work properly.	• The remote control is not pointed at the remote sensor on the DVD player.	• Point the remote control at the remote sensor of the DVD player.
	• The remote control is too far from the DVD player.	• Operate the remote control closer to the DVD player.

General

Power requirements . . . . . AC 200-240 V , 50/60 Hz
Power consumption . . . . . 11 W
Dimensions (approx.) .430 X 43 X 260 mm (w x h x d)
Mass (approx.) . . . . . 2.3 kg
Operating temperature . . . 5˚C to 35˚C (41˚F to 95˚F)
Operating humidity . . . . . 5 % to 90 %

System

Laser . . . . .Semiconductor laser, wavelength 650 nm
Signal system . . . . . PAL/NTSC/AUTO
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 75 dB
(ANALOG OUT connector only)
Harmonic distortion . . . . . Less than 0.5 %
Dynamic range . . . . . More than 95 dB (DVD)
More than 80 dB (CD)

Outputs

VIDEO OUT . . . . . .1 Vp-p 75 Ω,
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 Ω
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 (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) x 1

● Design and specifications are subject to change without notice.

Manufactured under license from Dolby Laboratories. Dolby, MLP Lossless and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. Copyright 1992-1997 Dolby Laboratories. All rights reserved.

DTS and DTS Digital Surround are registered trademarks of Digital Theater Systems, Inc.

P/NO : MFL39518841