KARAOKE MINI HOME THEATER

OWNER'S MANUAL

MODEL : MDT352

MDT352-A5U/D5U/X5U
MDS352V, MDS352W

MDD262

MDD262-A5U/D5U/X5U
MDS262V

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

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.

Power Save Mode - OPTIONAL

You can set up the unit into an economic power save mode.

In power-on status, press and hold POWER (⏻/I) button for about 3 seconds.
- Nothing is displayed in the display window when the unit is turned off.

To cancel, press ⏻/I (POWER), CLOCK, TIMER or PLAY MODE(DEMO).

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About Symbols

About the ✋ symbol display

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

About the disc symbols for instructions

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

- DVD — DVD
- VCD — Video CDs
- ACD — Audio CDs
- MP3 — MP3 file
- WMA — WMA file
- JPEG — JPEG file
- DivX — DivX file

About the symbols for instructions

Caution	Indicates hazards likely to cause harm to the unit itself or other material damage.
Note	Indicates special operating features of this unit.
Tip	Indicates tips and hints to make the task easier.

Before Use

Playable Discs

DVD VIDEO	DVD (8 cm / 12 cm disc)
COMPACT disc DIGITAL VIDEO	Video CD (VCD) (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, SVCD, 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.

Note on DVDs and Video CDs

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

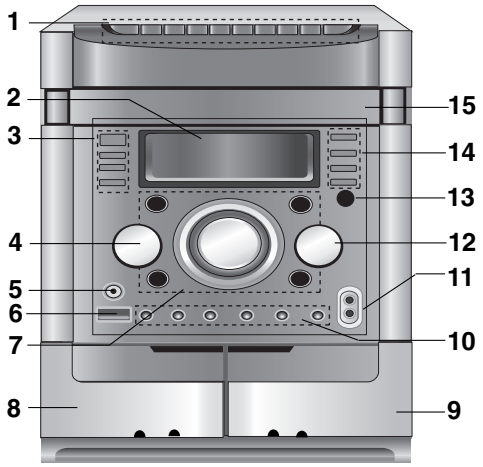
Regional Code

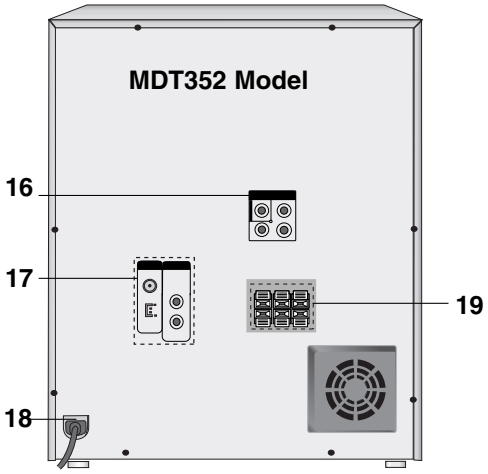
This unit has a regional code printed on the rear of the unit. This unit can play only DVD discs labelled as the same as the rear of the unit or "ALL".

Notes on Regional Codes

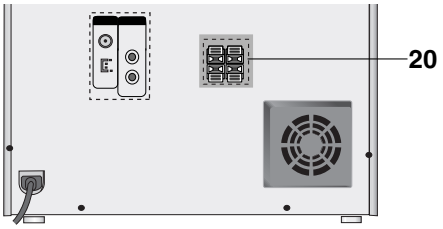
- Most DVD discs have a globe with one or more numbers in it clearly visible on the cover. This number must match your unit's regional code or the disc cannot play.
- If you try to play a DVD with a different regional code from your player, the message "Check Regional Code" appears on the TV screen.

Front Panel/ Rear Panel



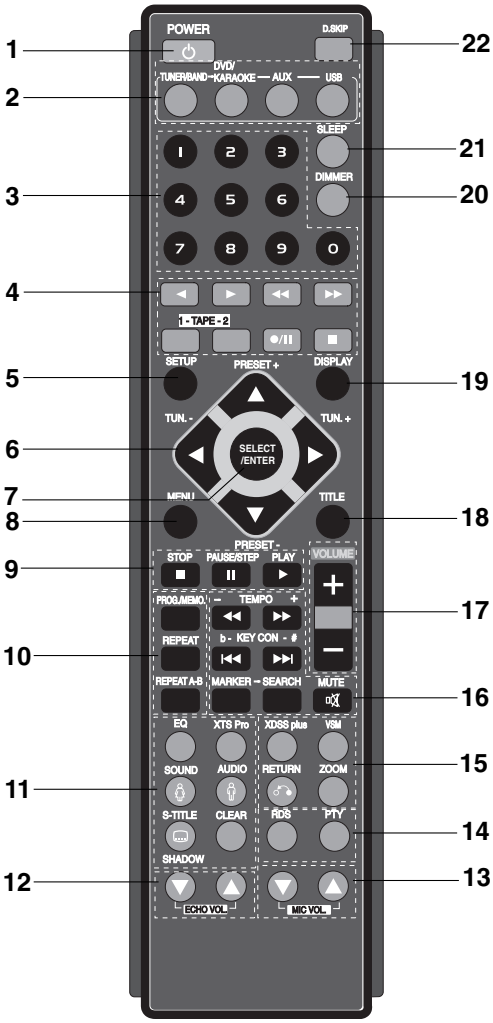


MDD262 Model



1. NUMERIC buttons (0-9)
2. DISPLAY WINDOW
3. • (⏻ /I)POWER button
   • CLOCK button
   • TIMER button
   • DUBBING (DUBB.)/ CD SYNCHRO RECORDING (CD SYNC.)/ (ST./MO.) button
4. MULTI JOG
   • MANUAL TUNING
   • CD SKIP
   • CLOCK ADJUST
   • (b-KEY CON-#) KEY CONTROL
5. HEADPHONE Jack (PHONES): ∅3.5 mm
6 USB (⭠) connector
7 • FUNCTION SELECT buttons (TUNER,TAPE, KARAOKE/DVD/CD,AUX)
   • EQ. button
   • XTS Pro button
   • USB button
   • XDSS plus button
   • Volume control knob
8. ⏏ PUSH EJECT position (TAPE 1)
9. ⏏ PUSH EJECT position (TAPE 2)
10. • RECORD/RECORD PAUSE (●REC/II) button
    • TUN.(-/+) buttons -AUTO TUNING/ REWIND/ FAST FORWARD (◀◀/▶▶) -TAPE/ SCAN (◀◀/▶▶) /TEMPO (-/+) buttons -CD
    • PRESET (-/+) buttons/ TAPE REVERSE PLAY (◀) button (OPTIONAL) /TAPE FORWARD PLAY (▶) button
    • STOP (■STOP) button
11. MIC JACKS (MIC1, MIC2):∅6.3 mm : OPTIONAL
12. MIC VOLUME (MIC VOL.) knob
13. Remote control sensor
14. • OPEN/CLOSE (⏏ OP/CL) button
    • DISC SKIP (D.SKIP) button
    • PLAY MODE, DEMO button
    • SET/CDII, RDS (OPTIONAL) button
15. DISC DOOR
16. • COMPONENT VIDEO OUT (PROGRESSIVE SCAN) (Y PB PR) Connector
    • VIDEO OUT Connector
17. • FM/AM ANTENNA Connector
    • AUXILIARY INPUT (AUX IN) connector
18. POWER CORD
19. SPEAKER Connectors (MDT352 Model)
20. SPEAKER Connectors (MDD262 Model)

Remote Control



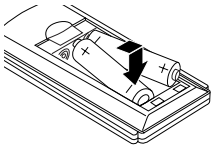
1. POWER button
2. FUNCTION SELECT buttons (TUNER/BAND,DVD/KARAOKE, AUX, USB)
3. NUMERIC buttons (0-9)
4. TAPE FUNCTION buttons
   - REVERSE PLAY (◀)
   - PLAY (▶)
   - REWIND/ FAST FORWARD PLAY (◀◀/▶▶)
   - TAPE 1-2 SELECT buttons (1-TAPE-2)
   - RECORD/ RECORD PAUSE (●/II)
   - TAPE STOP (■)
5. SETUP button
6. • ARROW buttons (▲/ ▼/ ◀/ ▶) (Selects an option in the menu)
   - PRESET (-/+) buttons (▲/ ▼)
   - TUN. (-/+) buttons (◀/ ▶)
7. SELECT/ENTER button
8. MENU button (Use the MENU button to display the menu screen included on DVD video discs.)
9. STOP (■), PAUSE(II)/ STEP, PLAY (▶) buttons
10. PROG./MEMO., REPEAT, REPEAT A-B buttons
11. EQ ,XTS Pro, SOUND/ FEMALE( ), AUDIO/ MALE( ), SUBTITLE (S-TITLE), SHADOW, CLEAR buttons
12. ECHO VOL. (/) buttons
13. MIC VOL. (/) buttons
14. RDS, PTY buttons - OPTIONAL
15. XDSS plus, VSM (Virtual Sound Matrix), ZOOM, RETURN ( ) buttons
16. • MARKER, SEARCH, MUTE( ) buttons
    - TEMPO (-/+)/ SCAN (◀◀/▶▶)
    - KEY CON (b/#)/ SKIP (I◀◀/▶▶I)
17. VOLUME -/+ buttons
18. TITLE button (Use the TITLE button to display the title screen included on DVD video discs.)
19. DISPLAY button
20. DIMMER button
21. SLEEP button
22. DISC SKIP (D.SKIP) button

Remote Control Operation Range

Point the remote control toward 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

Connecting to a TV

Make one of the following connections, depending on the capabilities of your existing equipment.

Tips

- Depending on your TV and other equipment you wish to connect, there are various ways you could connect the unit. Use 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.

Caution

- Make sure the unit is connected directly to the TV. Select the correct AV input on your TV.
- Do not connect your unit to TV via your VCR. The DVD image could be distorted by the copy protection system.

Video connection

Connect the VIDEO OUT jack from the unit to the VIDEO IN jack on the TV using the video cable supplied **(V)**.

Component Video connection

Connect the COMPONENT VIDEO OUT (PROGRESSIVE SCAN) (Y PB PR) jacks from the unit to the corresponding jacks on the TV using a Y PB PR cable **(C)**.

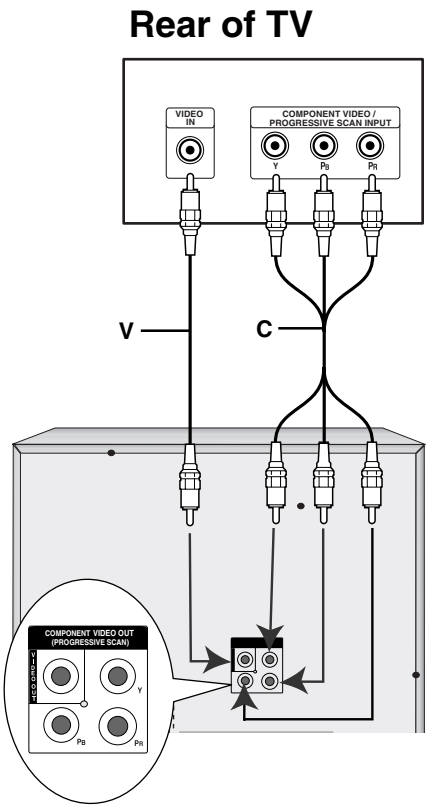
Progressive Scan connection

- If your television is a high-definition or “digital ready” television, you may take advantage of this unit’s progressive scan output for higher video resolution.
- If your TV does not accept the Progressive Scan format, the picture will appear scrambled if you try Progressive Scan on the unit.

Connect the COMPONENT VIDEO OUT (PROGRESSIVE SCAN) (Y PB PR) jacks from the unit to the corresponding jacks on the TV using an optional Y PB PR cable **(C)**.

Note

Set the Progressive to “On” in the Setup menu for progressive signal, see the page 14.



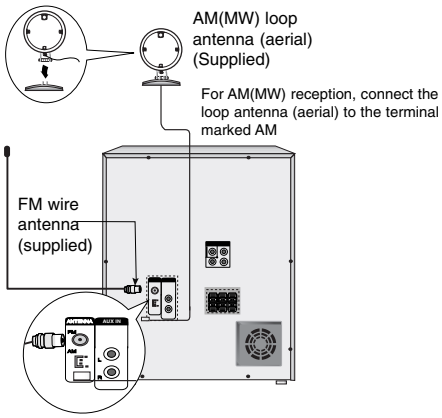
Connections

Connecting to Antenna

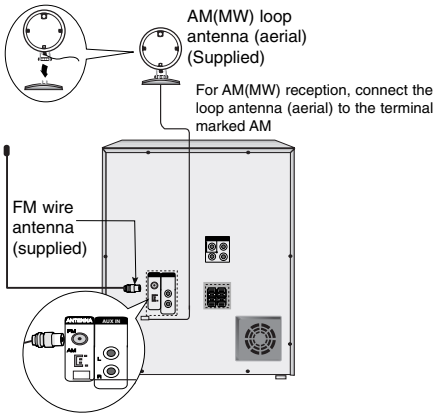
Connect the supplied FM/AM antennas to listen to the radio.

- Connect the AM loop antenna to the AM antenna connector.
- Connect the FM wire antenna to the FM antenna connector.

MDT352 Model



MDD262 Model



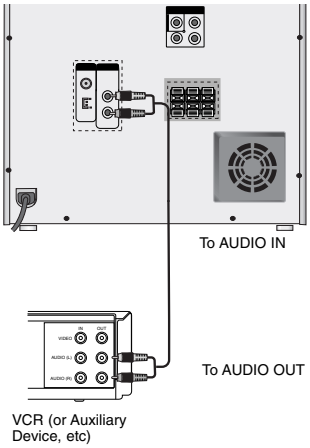
Notes

- To prevent noise pickup, keep the AM loop antenna away from the unit and other component.
- Be sure to fully extend the FM wire antenna.
- After connecting the FM wire antenna, keep it as horizontal as possible.

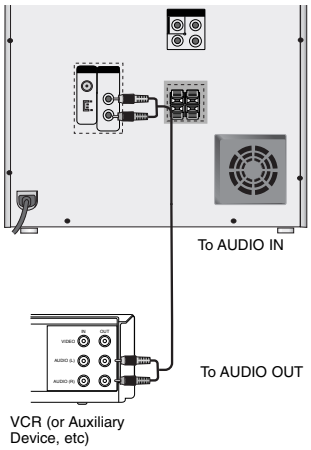
Connecting to Auxiliary Equipment

You can use VCR or other unit connected to the AUX connector.

MDT352 Model



MDD262 Model

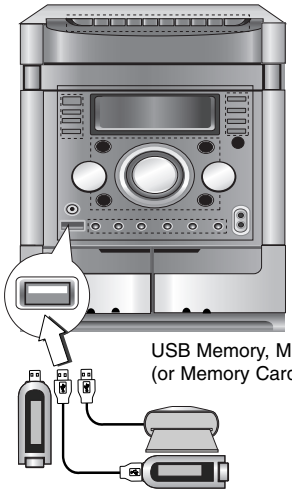


1 **Connect a VCR or auxiliary device, etc to the AUX connector.**

2 **Press the AUX button on the front panel or the remote control until the "AUX" indicator is displayed in the display window.**

USB Function

You can enjoy the media files such as tunes (MP3/WMA) saved in an MP3 player or USB memory by connecting the storage device to the USB port of this unit.



Compatible Devices

1. Devices which require additional program installation when you have connected it to a computer, are not supported.
2. MP3 Player : Flash type MP3 player.
   The MP3 player requiring installation of a driver is not supported.
3. USB Flash Drive : Devices that support USB2.0 or USB1.1.

To Remove the USB from the unit

1. Choose the other functions except USB function in order to remove the USB.
2. Remove the USB from the unit.

Note

Besides Basic Playback, if you want to operate other functions, see the CD Playback section.

Notes

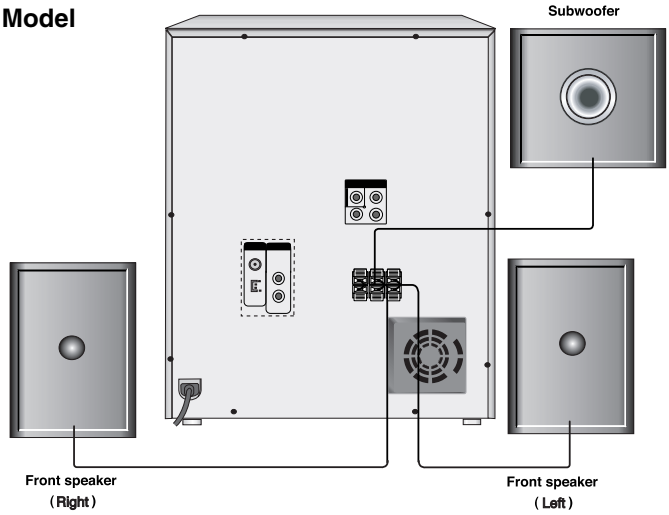
- Do not extract the USB device in operating.
- Music files (MP3/WMA),Image Files (JPEG) and Video Files can be played.
- A back up demands to prevent a data damage.
- If you use a USB extension cable or USB hub, the USB device might not be recognized.
- A device using NTFS file system is not supported. (Only FAT (16/32) file system is supported.)
- The USB function of this unit does not support all USB devices.
- Digital camera and mobile phone are not supported.
- This unit is not supported when the total number of files is 1000 or more..

Connections

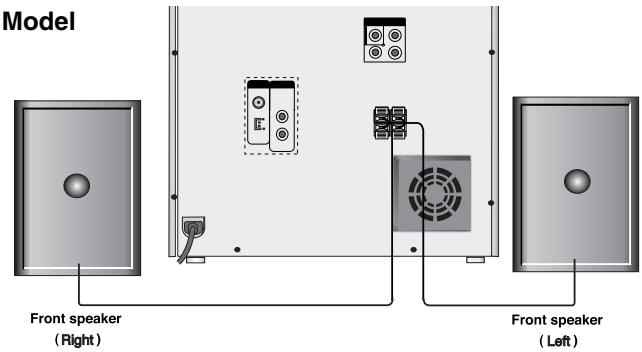
Speaker System Connection

Connect the speakers using the supplied speaker cables by matching the colors of the terminals and those of the cords. To obtain the best possible surround sound, adjust the speaker parameters (distance, level, etc.).

MDT352 Model



MDD262 Model



Notes

- Be sure to match the speaker cable to the appropriate terminal on the components: + to + and – to –. If the cables are reversed, the sound will be distorted and will lack base.
- If you use front speakers with low maximum input rating, adjust the volume carefully to avoid excessive output on the speakers.
- Connect the Front Left/Right speaker correctly. If it is reversed, the sound may be distorted.

Volume Adjustment

- Turn VOLUME knob clockwise to increase the sound level, or counterclockwise to decrease it.
- Press VOLUME + to increase the sound level, or use VOLUME - to decrease it on the remote control.

MUTE

Press MUTE to turn off the sound, press again to restore.
"🔇" indicator flashes in the display window.

Headphone Jack

Connect a stereo headphone plug (∅3.5mm) into the headphone jack.
The speakers are automatically disabled when you plug in headphones (not supplied).

EQUALIZER Effect

You can choose 7 fixed sound impressions and adjust the BASS, MIDDLE and TREBLE.

- You can select a desired sound mode by using **EQ.** button on the front panel or the remote control. When you want to change a sound mode press the **EQ.** button repeatedly within 3 seconds.

  Each time you press the button the setting changes in the display window as shown below.

  NORMAL → USER EQ → POP → CLASSIC → ROCK → DRAMA → JAZZ → NORMAL...
  You can set the BASS, MIDDLE and TREBLE on the USER EQ mode.

  1. Select the USER EQ mode by using **EQ.** button. "USER EQ" will be displayed in the display window.
  2. Press the SET/CD**II** button on the front panel when "USER EQ" is displayed in the display window. "BASS 0" will be displayed in the display window.
  3. Select the BASS, MIDDLE or TREBLE you want by pressing the **PRESET (-/+)** buttons on the front panel.
  4. Press the **TUNING (-/+)** buttons on the front panel to set the sound level you want. (MIN, -4 ~ +4, MAX steps)
  5. Repeat the 3-4 steps as above.
  6. When the sound level is completed, press the the SET/CD**II** button on the front panel.

XDSS (Extreme Dynamic Sound System)

Press **XDSS plus** to reinforce treble, bass and the surround effect. The "XDSS ON" or "NORMAL" indicator lights.

DVD/VCD/DivX/ACD : XDSS ON ↔ NORMAL

MP3/WMA : XDSS ON → MP3 -- OPT ON → NORMAL → XDSS ON .

MP3 Optimizer

This function optimizes for compressed MP3 files. It improves the bass sound to make sweet sound. Each time you press " **XDSS plus** ".
The setting changes in the following order.

XDSS ON → MP3 -- OPT ON → NORMAL

XTS pro

This unique sound quality developed by our technology creates the optimum sound for you to play the perfect playback of the original sound and to feel the living sound source.
Each time you press **XTS Pro** the setting changes in the following order.
NORMAL → XTS -- P ON

Note

The XTS Pro function will not be operated when a headphone has been connected.

VIRTUAL sound

Press **VSM** to set the virtual sound.

Source	Display	Effect
2.1 ch.	VIRTUAL	3D STEREO
5.1 ch	VIRTUAL	Virtual surround

- **3D STEREO**
  Realtime 3D positioned sound rendering technology with stereo sources, optimized for stereo speakers. Listeners may experience amazing virtual surround effects with their own multimedia players.
- **Virtual surround**
  A patent pending downmix technology converts 5.1 channel to 2 channel sound having directional information of audio.

Sound Mode

You can enjoy surround sound simply by selecting one of the pre-programmed sound fields according to the program you want to listen to (2 ch. sound only).

Press **SOUND** mode repeatedly.

BYPASS → ON STAGE → STUDIO → CLUB → HALL → THEATER 1 → CHURCH → BYPASS...

Note

Initial sound mode is BYPASS.

Setting the Clock

1 **Press CLOCK.**
(If the clock requires setting, press and hold CLOCK for more than 2 seconds.)
- The hours display begins to blink.

2 **Select either the 12 hour cycle or the 24 hour cycle by turning MULTI JOG.**

AM 12:00 (12HR) or 0:00 (24HR)

3 **Press SET/CD❚❚ to confirm the selected hour cycle.**

4 **Use MULTI JOG to set the current hour.**

5 **Press SET/CD❚❚.**

6 **Use MULTI JOG to set current minutes.**

7 **Press SET/CD❚❚ and the correct time is shown in the display window.**

Sleep Timer Function

When the sleep timer is set, the unit automatically turns off after the specified time has elapsed.

1 **To specify the time delay before the power is turned off, press SLEEP.**
In the display window you can see *SLEEP 180* for about 5 seconds. This means that the system turns off automatically after 180 minutes.

2 **Each time you press SLEEP the setting changes in the following order.**
SLEEP 180 →150 → 120 →90→80→70 → 60→ 50 → 40 → 30 → 20 →10 → OFF (No display) →SLEEP 180...

3 **To check the remaining time until the power is turned off.**
While the sleep function is active press **SLEEP** briefly. The time remaining until the unit turns off is displayed for about 5 seconds.

Note

If you press **SLEEP** while the sleep time is displayed, the SLEEP time is reset.

To cancel Sleep Timer setting

If you wish to stop the function, press the **SLEEP** button repeatedly until "*SLEEP 10*" appears, and then press **SLEEP** once again after "*SLEEP 10*" shows on the display.

Using Microphone (OPTIONAL)

You can sing to a music source by connecting a microphone to the unit.

1 **Connect your microphone to the MIC1/ MIC 2 Jacks.**
" " will be shown in the display window.

2 **Play the music you want.**

3 **Sing along with the accompaniment.**
Adjust the microphone volume by turning **MIC VOL.** volume knob. (MIN,1 - 14, MAX steps)

Notes

- When not using the microphone, set the **MIC VOL.** volume knob to minimum or turn off the MICs and remove the microphone from the MIC Jacks.
- If the microphone is set too near the speaker, a howling sound may be produced. In this case, move the microphone away from the speaker or decrease the sound level by using the **MIC VOL.** volume control.
- If sound through the microphone is extremely loud, it may be distorted. In this case, turn the **MIC VOL**. volume control toward minimum.

To Adjust ECHO Volume

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

Press ECHO VOL. (◎/◎) on the remote control to increase the echo volume or decrease it.
(MIN,1 - 14, MAX steps)

DIMMER

This function dims the LED (Light-emitting diode) of front panel by half in power-on status.

Press **DIMMER** once. The LED (Light-emitting diode) of front panel is turned off and the display window will be darken by half.To cancel it, press **DIMMER** again.

DEMO

Press **PLAY MODE** in power off state to demonstrate the function in the display window.

To cancel it , press **POWER (⏻/ I)** or **PLAY MODE** again.

Timer Function

With the TIMER function you can have the radio reception, CD play, USB play and TAPE play turned on and off at the desired time.

1 **Press CLOCK to check the current time.**

For your reference
If you don't set clock, timer function doesn't work.

2 **Press TIMER to enter the timer setting mode.**
"TUNER→DVD/CD →USB→TAPE" flash in the display window in turn.

For your reference
If you want to correct the previous memorized TIMER setting, press and hold the **TIMER** button for more than 2 seconds.

- If you want to check the previous memorized TIMER setting,press **TIMER** button briefly.
- The previously memorized time and "◷" indicator appears in the display window.

3 **Press SET/CD❚❚ when the desired function flashes.**

4
1. a. When you select TUNER function, 'PLAY' and 'REC' indicator flash in the display window alternately for about 3 seconds.
'PLAY' indicator : TUNER play only
'REC' indicator : TUNER play and recording
b. Press SET/CD❚❚ when the desired function flashes.
c. Select the previous memorized preset number with MULTI JOG on the front panel and press SET/CD❚❚.
'TIME ON' indicator appears for about 0.5 seconds in the display window and then disappears.
2. When you select DVD/CD, TAPE or USB function,
'TIME ON' indicator appears for about 0.5 seconds in the display window and then disappears.

5 **Set the turn on hour turning MULTI JOG.**

6 **Press SET/CD❚❚ to confirm the turn on hour time.**

7 **Set the turn on minutes time turning MULTI JOG.**

8 **Press SET/CD❚❚ to confirm the turn on minutes time.**
'TIME OFF' indicator appears for about 0.5 seconds in the display window and then disappears.

9 **Set the turn off hour time turning MULTI JOG.**

10 **Press SET/CD❚❚.**

11 **Set the turn off minutes turning MULTI JOG.**

12 **Press SET/CD❚❚.**

13 **Adjust the volume level turning MULTI JOG.**

14 **Press SET/CD❚❚.**
" ◷ " appears in the display window and the timer setting has been completed.

15 **Turn the system off.**
The selected timer functions are automatically switched on and off at the preset times.

To cancel or check the timer

Each time the **TIMER** button is pressed you can select the timer set or cancel. You can also check the timer setting status.
To activate or check the timer, press the **TIMER** button repeatedly so that "◷" appears in the display window.
To cancel the TIMER, press the **TIMER** button repeatedly so that "◷" disappears from the display window.

Note

If you insert the DVD,VCD or DivX except audio CD/MP3/WMA on the unit, the timer function will be operated to the TUNER.

Displaying Disc Information On -screen

You can display various information about the disc loaded on-screen.

1 Press DISPLAY to show various playback information.
The displayed items differ depending on the disc type or playing status.

2 You can select an item by pressing ▲ / ▼ and change or select the setting by pressing ◀ / ▶ .

- Title (Track) – Current title (or track) number/ total number of titles (or tracks).
- Chapter – Current chapter number/ total number of chapters.
- Time – Elapsed playing time.
- Audio – Selected audio language or channel.
- Subtitle – Selected subtitle.
- Angle – Selected angle/ total number of angles.
- Sound – Selected sound mode.

Note

If any button is not pressed for a few seconds, the on-screen display disappears.

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 the pages 13 to 16.

To display and exit the Menu:
Press SETUP to display the menu. A second press of SETUP will take you back to the initial screen.

To go to the next level:
Press ▶ on the remote control.

To go back to the previous level:
Press ◀ on the remote control.

GENERAL OPERATION

1 Press SETUP. The Setup menu appears.

2 Use ▲ / ▼ to select the desired option then press ▶ to move to the second level. The screen shows the current setting for the selected item, as well as alternate setting(s).

3 Use ▲ / ▼ to select the second desired option and 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 the on-screen display.

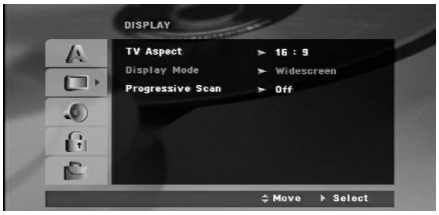
Disc Audio / Subtitle / Menu

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 numeric buttons and then SELECT/ENTER to enter the corresponding 4-digit number according to the language code list on the page 30. If you enter the wrong language code, press CLEAR.

DISPLAY



TV Aspect

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

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

Display Mode

The display Mode setting works only when the TV Aspect mode is set to “4:3”.

Letterbox – Displays a wide picture with bands on the upper and lower portions of the screen.

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

Progressive Scan

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

When you are using the COMPONENT VIDEO OUT jacks, but are connecting the unit to a standard (analog) television, set Progressive Scan to Off.
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 unit 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. 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. First, remove the disc in the unit. Next, press STOP(■) on the remote control 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 unit's AUDIO options according to the type of audio system you use.

Dynamic Range Control (DRC)

With the DVD*1 format, you can hear a program's soundtrack in the most accurate and realistic presentation, 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.
*1: Dolby Digital only

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.

LOCK (Parental Control)

Rating

Blocks playback of rated DVDs based on their contents. Not all discs are rated.

1 Select "Rating" on the LOCK menu then press ▶ .
2 To access the LOCK options, you must input the password you have created. If you have not yet entered password, you are prompted to do so. Input a password 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.
4 Press SELECT/ENTER to confirm your rating selection, then press SETUP to exit the menu.

Password

You can enter or change password.

1 Select Password on the LOCK menu and then press ▶.
2 Follow the step 2 as shown above (Rating).
To change the password, press SELECT/ENTER when the "Change" option is highlighted. Input a password and press SELECT/ENTER. Enter it again and press SELECT/ENTER to verify.
3 Press SETUP to exit the menu.

If you forget your password

If you forget your password, you can clear it using the following steps:

1 Press SETUP to display the Setup menu.
2 Input the 6-digit number "210499" and press SELECT/ENTER. The password is cleared.

Area Code

Enter the code of the area whose standards were used to rate the DVD video disc, based on the list on the page 30.

1 Select "Area Code" on the LOCK menu then press ▶.
2 Follow the step 2 as shown previous paragraph (Rating).
3 Select the first character using ▲ / ▼ buttons.
4 Press ▶. and select the second character using ▲ / ▼ buttons.
5 Press SELECT/ENTER to confirm your Area code selection.

OTHERS

PBC VCD

Set Playback Control (PBC) to On or Off.

On: Video CDs with PBC are played according to the PBC.

Off: Video CDs with PBC are played the same way as Audio CDs.

DivX(R) Registration

We provide you the DivX® VOD (Video On Demand) registration code that allows you to rent and purchase videos based on the DivX® VOD service. For more information, visit www.divx.com/vod.

1. Select “DivX(R) Registration” option and then press ▶.
2. Press SELECT/ENTER while “Select” is selected and the registration code will appear.
   Use the registration code to purchase or rent the videos from DivX® VOD service at www.divx.com/vod. Follow the instructions and download the video onto a disc for playback on this unit.
3. Press SELECT/ENTER to exit.

Note

All the downloaded videos from DivX® VOD can only be played back on this unit.

Semi Karaoke

When a chapter/ title / track is fully finished ,this function shows the score in the screen with a fanfare sound.

Semi Karaoke on :
- Turn the “Semi Karaoke” function on.
  When you finished singing a score will appear on the screen.

Semi Karaoke off :
- Turn the “Semi Karaoke” function off.
  Fanfare and score do not appears on the screen

Available discs for the Semi Karaoke function:

- DVD discs
- DVD Karaoke Discs
- VCD discs with more than 2 tracks

Note

- This function operate on the DVD/CD mode.
- The Semi Karaoke function is available only when a microphone is connected.
- Watching movies, “off ” the Semi Karaoke or enjoy it without connecting the MIC at the SET UP menu if the fanfare or score appears during changing a chapter.

General features

Buttons	Operations	Discs
⏏ (OPEN / CLOSE)	Opens or closes the disc tray.	ALL
❚❚ (PAUSE)	During playback, press ❚❚ to pause playback.	ALL
	Press ❚❚ repeatedly to play Frame-by-Frame.	DVD VCD DivX
SKIP (⏮ / ⏭)	During playback, press SKIP (⏮ or ⏭) to go to the next chapter/track or to return to the beginning of the current chapter/track. Press SKIP ⏮ twice briefly to step back to the previous chapter/track.	ALL
SCAN (◀◀ / ▶▶)	During playback, press SCAN (◀◀ or ▶▶) repeatedly to select the required scan speed. DVD : 5 steps (▶▶, ▶▶▶, ▶▶▶▶, ▶▶▶▶▶, ▶▶▶▶▶▶) (◀◀, ◀◀◀, ◀◀◀◀, ◀◀◀◀◀, ◀◀◀◀◀◀) DivX disc, Video CD :4 steps (▶▶, ▶▶▶, ▶▶▶▶, ▶▶▶▶▶) (◀◀, ◀◀◀, ◀◀◀◀, ◀◀◀◀◀) WMA/MP3, Audio CD ◀◀(X2, X4, X8) or ▶▶ (X2, X4, X8)	ALL
REPEAT	During playback, press REPEAT repeatedly to select a desired repeat mode. DVD Video discs: Chapter/Title/Off Video CD, Audio CD, DivX/MP3/WMA discs: Track/All/Off	ALL
REPEAT A-B	During playback, press REPEAT A-B to select a point A and a point B, and the device repeats a sequence from point A (Starting point) to point B (End point). Press REPEAT A-B to exit.	DVD VCD
ZOOM	During playback or in the pause mode, press ZOOM to the video image (3 steps). You can move through the zoomed picture using ◀/ ▶ /▲ /▼ buttons.	DVD VCD
TITLE	If the current DVD title has a menu, the title menu appears on the screen. Otherwise, the disc menu may appears.	DVD
MENU	The disc menu appears on the screen.	DVD
S-TITLE (SUBTITLE)	During playback, press S-TITLE repeatedly to select a desired subtitle language.	DVD DivX
AUDIO (AUDIO language)	During playback, press AUDIO repeatedly to hear a different audio language or audio track.	DVD DivX
AUDIO (AUDIO channel)	Press AUDIO repeatedly during playback to hear a different audio channel (STER., LEFT or RIGHT).	VCD
SLOW	In the pause mode, press ◀◀ or ▶▶ to select required speed. DVD : ◀❚ (1/2, 1/4, 1/8, 1/16) or ❚▶ (1/2, 1/4, 1/8, 1/16) Video CD : ❚▶ (1/2, 1/4, 1/8, 1/16)	DVD VCD

***Notes** on general features:*

- Zoom may not work on some DVDs.
- The A-B repeat function is available only in the current title.

Additional features

Time Search DVD VCD DivX

To start playing at any chosen time on the disc:

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

Marker Search DVD VCD DivX

To enter a Marker

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

To Recall or Clear a Marked Scene

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

Screen Saver

The screen saver appears when you leave the unit in Stop mode for about five minutes.

1.5 speed playback DVD VCD ACD MP3 WMA

You can quickly enjoy a music and movie.
The 1.5 speed allows you to watch the pictures and listen to the sound quicker than playing at a normal speed on the disc.

1. Press the PLAY(▶) button during the normal playback.
   The screen will appear at " ▶X1.5 "speed with sound .
2. To return to the normal PLAY, press PLAY(▶).
   Normal speed→X1.5 speed → Normal speed...

Last Scene Memory DVD

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

Note

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

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 appears in the display window.
2. Select a desired angle pressing the ◀/▶ buttons.

Playing an Audio CD or MP3/WMA file

This unit can play Audio CDs or MP3/WMA files.

MP3/ WMA/ Audio CD

Once you insert an MP3/WMA files recording media Audio CD, a menu appears on the TV screen and display window.

Press ▲/▼ to select a track/file and then press PLAY (▶) or SELECT/ ENTER, and playback starts. You can use variable playback functions. Refer to the page 17.

ID3 TAG

When playing a file containing information such as track titles, you can see the information by pressing DISPLAY repeatedly.
The information [Folder and file name, Song, Artist, Album, Genre,Comment,Time information] of the MP3/WMA file will be shown in the display window and TV screen
To move next or previous files press the SKIP(**I◀◀/▶▶I**)button.

Tips

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

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 unit cannot read an MP3/WMA file that has a file extension other than ".mp3" / ".wma".
- CD-R physical format should be ISO 9660
- If you record MP3 / WMA files using software that cannot create a file system (eg. Direct-CD) it is impossible to playback MP3 / WMA files.We recommend that you use Easy-CD Creator, which creates an ISO 9660 file system.
- File names should have a maximum of 8 letters and must incorporate an .mp3 or .wma extension.
- They should not contain special letters such as / ? * : " < > I etc.
- The total number of files on the disc should be less than 999.

This unit 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.

Programmed Playback

The program function enables you to store your favorite tracks from any disc in the unit memory. A program can contain 300 tracks.

1. Insert a disc.
   Audio CD and MP3/WMA Discs:
2. Select a track on the "List", and then press PROG./MEMO. or select "♫→ (Add)" icon and then press 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.

3. Select the track you want to start playing on the "Program" list. Press MENU to move to the next page.
4. 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.
5. To resume normal playback from programmed playback, select a track of AUDIO CD (or MP3/WMA) list and then press PLAY (▶).

Repeat Programmed Tracks

1. Press REPEAT when playing a disc. The repeat icon appears.
2. Press REPEAT to select a desired repeat mode.
   - TRACK: repeats the current track
   - ALL: repeats all the tracks on a programmed list.
   - 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. Alternatively, 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

Use ▲/▼ to select "♫♫🗑 (Del all)" and then press SELECT/ENTER.

Note

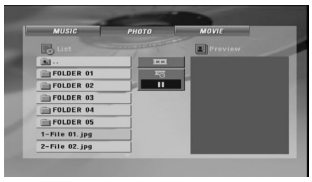
The programs are also cleared when the disc is removed.

Operation with JPEG Disc

Viewing a JPEG files

This unit can play discs containing 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 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(▶).**
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).

Tips

- 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 the 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 a 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 unit 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 2760 x 2048 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 unit. Even though the files are shown as JPEG image files in Windows Explorer.

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.

4 **Press STOP(■) to exit.**

Notes

- Be sure to select the "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 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 S-TITLE about 3 seconds then press S-TITLE to select another language code until the subtitle is displayed properly.

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 (if differs according to language).
- If there is impossible code to express in the DivX file, it may be displayed as " _ " mark in 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)
  Micro DVD(*.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 ", "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 RADIO

Presetting the radio stations

You can preset 50 stations for FM and AM.
Before tuning, make sure that you have turned the volume down to the minimum level.

1 **Press TUNER/BAND on the remote control to show either FM or AM in the display window. Or Press TUNER on the front panel.**
Every time you press this button, AM and FM changes alternately.

2 **Select a station you want by pressing TUNING (-/+) on the front panel or ◀/▶ on the remote control.**

Note

- **Automatic Tuning**

  Press **TUNING (-/+)** or ◀/▶ for more than 0.5 second.

  - Scanning stops when the unit tunes in a station.

- **Manual Tuning**

  Use the MULTI.JOG.

3 **Press PROG./MEMO. on the remote control.**
A preset number will flash in the display window.

4 **Press ▲/▼ on the remote control to select the preset number you want.**

5 **Press PROG./MEMO. again.**
The station is stored.

6 **Repeat steps 1 (or 2) to 5 to store other stations.**

To clear all memorized stations

Press and hold **PROG./MEMO.** on the remote control for about two seconds, "*ERASE ALL*" appears in the display window and then press **PROG./MEMO.** on the remote control, the stations are cleared.

For your reference

If all stations have already been entered, "*FULL*" message will appear in the display window for a moment and then a preset number will flash.
To change the preset number, follow the steps 4-5 .

To recall preset numbers

Press and hold ▲/▼ on the remote control until the desired preset number appears or press the button repeatedly.

Listening to the radio

1 **Press TUNER/BAND on the remote control to show either FM or AM in the display window. Or Press TUNER on the front panel.**
The last received station is tuned in.

2 **Press ▲/▼ on the remote control repeatedly to select the preset station you want.**
Each time you press this button, the unit tunes in the next preset station.

3 **Adjust the volume by turning VOLUME CONTROL KNOB (or pressing VOLUME (-/+) on the remote control) repeatedly.**

To listen to non-preset radio stations

- For manual tuning, see "Manual Tuning".
- For automatic tuning, see "Automatic Tuning".

To select a preset radio station directly

You can use the number buttons on the remote control to select a preset radio station directly.
For example, to listen to preset station 4, press 4 on the remote control. To listen to preset station 19, press 1 then 9 (within 3 seconds).

To turn the radio off

Press **POWER** to turn off the unit or select another function mode
(KARAOKE/DVD/CD, TAPE, AUX or USB) .

For your reference

- **If a FM program is noisy ;**
  Press **ST./MO.** repeatedly so that that "STEREO" disappears in the display window. There will be no stereo effect, but the reception will improve. Press **ST./MO.** again to restore the stereo effect.
- **To improve reception;**
  Reposition the supplied antennas.

RDS Function : OPTIONAL

About RDS : OPTIONAL

This unit is equipped with RDS (Radio Data System), which brings a wide range of information from FM radio. RDS is a system for transmitting station call signs or network information, a description of station programme type text message about the station or specifics of musical selection and the correct time.

RDS Tuning : OPTIONAL

When a FM station containing RDS data is tuned in, the unit will automatically display the station's call sign and the RDS indicator will light in the Display Window as well as indicators for the programme type recognition (PTY), Radio Text (RT), Clock Time (CT) and RDS services programme (PS) if transmitted by the station.

RDS Display Options : OPTIONAL

The RDS system is capable of transmitting a wide variety of information in addition to the initial call sign that appears when a station is first tuned. In normal RDS operation the display will indicate the station name, broadcast network or call letters. Pressing **RDS** on the front panel enables you to cycle through the various data types in the sequence:

(FREQUENCY → PTY → RT → CT → PS)

- **PTY (Programme type recognition)-** The programme type is shown in the display window.
- **RT (Radio text recognition)-** The radio station's name is displayed in the display window.
- **CT (Time controlled by the channel)-** Enable the unit to receive the actual time and show it on the display window.
- **PS (Programme Service name)-** The programme title is displayed in the display window.

Note

Some RDS stations may not choose to include some of these additional features. If the data required for the selected mode is not being transmitted, the Display Window will show a **PTY NONE, RT NONE, CT NONE,or PS NONE** message.

Programme Search (PTY) : OPTIONAL

A major benefit of RDS is its ability to encode broadcasts with Programme Type (PTY) codes that indicate the type of material being broadcast. The following list shows the abbreviations used to indicate each PTY along with an explanation of the PTY.

NEWS	News
AFFAIRS	Current Affairs
INFO	Information
SPORT	Sports
EDUCATE	Educational
DRAMA	Drama
CULTURE	Culture
SCIENCE	Science
VARIED	Varied Speech Programme
POP M	Popular Music
ROCK M	Rock Music
EASY M	Easy Listening Music
LIGHT M	Classical Music
CLASSICS	Serious Classical Music
OTHER M	Other Music
WEATHER	Weather Information
FINANCE	Financial Programmes
CHILDREN	Children's Programmes
SOCIAL	Social Affairs Programmes
RELIGION	Religious Broadcasts
PHONE IN	Phone-In Programmes
TRAVEL	Travel and Touring
LEISURE	Leisure and Hobby
JAZZ	Jazz Music
COUNTRY	Country Music
NATION M	National Music
OLDIES	Oldies Music
FOLK M	Folk Music
DOCUMENT	Documentary Programmes
TEST	Station Alarm Test Message
ALARM !	Emergency Broadcast Information

You may search for a specific Programme Type (PTY) by following these steps:

1. **Press TUNER (or TUNER/BAND) to select FM mode.**
2. **Press PTY on the remote control, the display will show the last PTY in use.**
3. **Press PTY repeatedly to select a desired PTY.**
4. **When the PTY is selected, press and hold PTY.** The unit will go into an automatic search mode. When a station is tuned, the search will stop.

Operation with TAPE

Basic Playback

1 **Press TAPE1-2 (or TAPE) to select tape function.**
(“*NO TAPE*” appears in the display window.)

2 **Open cassette TAPE1-2 by pushing to the ⏏PUSH EJECT position.**

3 **Insert one or two cassettes with the tape side to the bottom and then close the TAPE 1 (and/or 2) door.**

4 **Press ► (or ◄: OPTIONAL).**

AUTO STOP DECK (TAPE 1/2)
After auto stop deck plays front side of cassette, the unit stops automatically.

AUTO REVERSE DECK (TAPE 2)
You can select direction of the cassette you want by pressing PLAY MODE.

Pressing	Display	Function
-	⇄	After the cassette of TAPE 2 plays front or reverse (backward play) side, stops automatically.
Once	⇄)	After the cassette of TAPE 2 plays front and reverse side, stops automatically.
Twice	(⇄)	After the cassette of TAPE 2 plays six times repeatedly front and reverse side, stops automatically.

To Stop Play

Press (■STOP) on the front panel or TAPE STOP(■) on the remote control during playback.

To Play Rewind or Fast Forward

After press ◄◄/►► on the front panel or on the remote control during playback, press ► (or ◄) at the tape position you want.

Dubbing

This function shows how to record from tape to tape.

1 **Press TAPE1-2 (or TAPE).**
- Cassette TAPE 1- Insert the playback tape to dub.
- Cassette TAPE 2- Insert a blank tape to copy on.

2 **Press DUBB.**
DUBBING - Normal speed copying
To stop recording, press STOP (■).

Recording

Basic Setting

1 **Select a function you want to record except tape function.**

2 **Open the cassette deck TAPE 2 and insert a blank cassette into the cassette compartment.**
To set the recording direction
Press PLAY MODE.

Recording from Radio, CD or Auxiliary source

1 **Press ●REC/II on the front panel or ●/II on the remote control.**
“REC” flashes and holds the cassette in pause mode.

2 **Press ► (or ◄: OPTIONAL).**
The recording begins.

To pause the recording
Press ●/II or ●REC/II.
To Stop the recording
Press STOP(■).

CD to Tape Synchronized Recording

The CD synchro recording function dubs a complete CD and programmed titles automatically into a cassette.

1 **Press DVD/KARAOKE button on the remote control.**

2 **Press CD SYNC. in stop mode.**
“REC” flashes and “CD SYNC.” displays in the display window.

3 **The synchronized recording is started automatically after about 7 seconds.**

Notes
- If you wish to record from the desired track, select the desired track with MULTI JOG before commencing CD synchro recording.
- A function change is not possible during recording.

Operation with KARAOKE

You can play KARAOKE (singing along) with karaoke disc 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 pages 6- 9.)

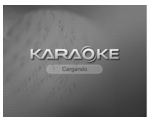
2 **Turn on the powers of TV (or Amplifier) and DVD Karaoke and enter the video mode on TV.**

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

4 **Press ⏏OP/CL to close the tray.**

5 **Press DVD/KARAOKE to enter to the karaoke mode.**

[TV Screen]



6 **Connect the microphone to the MIC1 or MIC2 jack.**

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

8 **Press PLAY(▶).**
The selected melody number is played.
Sing in tone with microphone.
After melody ends, it is stopped automatically and score appears.

Karaoke Advanced Playback

To Adjust MIC Volume

Press the MIC VOL. (◎/◎) on the remote control to increase the microphone volume or decrease it. Or turn MIC VOLUME knob (MIC VOL.) on the front panel.
(MIN,1 - 14, MAX steps)

Key Control

You can change the key to suit your vocal range.
You can adjust the key to the 13 steps (6 steps 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.

To Adjust ECHO Volume

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

Press the ECHO VOL. (◎/◎) on the remote control to increase the echo volume or decrease it. (MIN,1 - 14, MAX steps)

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 PROG./MEMO..**
The melody number is reserved.

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 PROG./MEMO. 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 Video 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.

Screen Change Function VCD DVD

This function is used when you want to change the current screen during playing karaoke disc.
Press D.SKIP button during playing karaoke disc.
IIt plays a screen with existing another disc.

Note

The Karaoke function will not work when the set is in Random play mode and game mode.

Karaoke MENU Playback

Preparation

Press MENU on the karaoke mode.

The main menu appears on the screen.

Main menu (On the TV screen)

SETUP

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

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

SCORE ON/OFF (PUNTUACIÓN On/Off)

"On" When singing by selection of melody, song score comes out after one piece of song is ended.
To cancel it, select the **"Off"**.

FANFARE ON/OFF (FANFARRIA ON/OFF)

"On": In condition of fanfare ON, scoring fanfare operates. The fanfare sound comes out after singing finished.
To cancel it, select the **"Off"**.

LYRIC ON/OFF (LÍRICA ON/OFF)

"On": When singing by selection of melody, song lyric appears on the TV screen.
To cancel it, select the **"Off"**.

CHORUS ON/OFF (CORO ON/OFF)

"On": When singing by selection of melody, song chorus is heard with a sound.
To cancel it, select the **"Off"**.

Note

To move to the main menu, press MENU.

MUSIC LIST (LISTA DE CANCIONES)

LOCAL SONG (CANCIONES EN ESPAÑOL)and POP SONG (OTROS)

1 **Select "2. LISTA DE CANCIONES" by pressing the ▲ / ▼ on the main menu.**

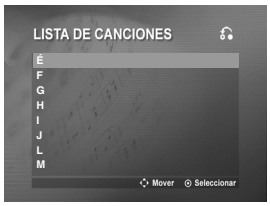
The LOCAL SONG, POP SONG and CLASSIC menu will be shown on the TV screen.

2 **Select "1.CANCIONES EN ESPAÑOL" or "2.OTROS" by pressing the ▲ / ▼, and press SELECT/ ENTER.**

SONG LIST and SINGER LIST menu will be shown on the TV screen.

SONG LIST (LISTA DE CANCIONES)

1 **Select "1. LISTA DE CANCIONES" and select the initial of the song title you want by pressing the ▲ / ▼, then press SELECT/ ENTER.**

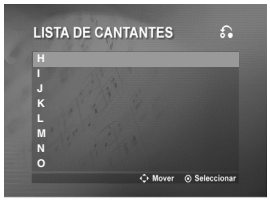


2 **Select the song title you want by pressing the ▲ / ▼, and press SELECT/ ENTER.**

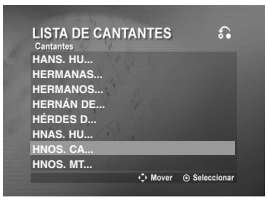
Operation with KARAOKE

SINGER LIST (LISTA DE CANTANTES)

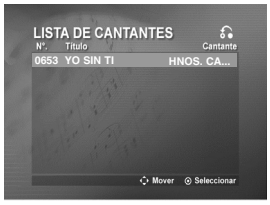
1 Select "2. LISTA DE CANTANTES" and select the initial of the singer you want by pressing the ▲ / ▼ and then press SELECT/ ENTER.



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



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



Note

To move the previous mode, select the by pressing the ▲ / ▼, then press SELECT/ ENTER.

CLASSIC (CLÁSICO)

Select "3.CLÁSICO" by pressing the ▲ / ▼, and press SELECT/ ENTER in the CANCIOES EN ESPAÑOL, OTROS and CLÁSICO menu.

The LISTA DE CLÁSICOS and LISTA DE COMPOSITORES menu will be shown on the TV screen.

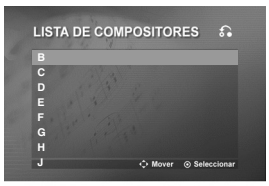
CLASSIC LIST (LISTA DE CLÁSICOS)

1 Select "1.LISTA DE CLÁSICOS" 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 (LISTA DE COMPOSITORES)

1 Select "2.LISTA DE COMPOSITORES" and select the initial of the composer you want by pressing the ▲ / ▼ and then press SELECT/ ENTER.



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

3 Select the song title 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.

RANDOM (ALEATORIO)

1 Select "3. ALEATORIO" by pressing ▲ / ▼ on the main menu.

2 Press SELECT/ENTER to begin randomly.

CHALLENGE (RETO)

It has a function which enjoy a song game with two teams divided into red team &blue team.

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

2 Select "ESTABLECER UN NÚMERO PARA GANAR" by pressing ▲ / ▼, and select one of NUMERIC buttons 1~9 by pressing ◀ / ▶ to set number to win , then press SELECT/ ENTER.

3 Select "PUNTUACIÓN DEL RETO" by pressing ▲ / ▼, and select one of 60,70,80 or 90 by pressing ◀ / ▶ to set challenge score, then press SELECT/ ENTER.

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

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

6 Repeat the step 5.
The team of red team or blue team changes in turn.

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

8 Whether you keep going the song game or not, select "1. SI" or "2. NO" by pressing ▲ / ▼ as below.

Troubleshooting

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

Symptom	Cause	Correction
No power.	• The power cord is disconnected.	• Plug the power cord into the wall outlet securely.
The power is on, but the unit does not work.	• No disc is inserted.	• Insert a disc. (Check that the DVD or, audio CD indicator in the DVD display is lit.)
No picture.	• The TV is not set to receive DVD signal output.	• Select the appropriate video input mode on the TV so the picture from the unit appears on the TV screen.
	• The video cable is not connected securely.	• Connect the video cable into the jacks securely.
	• The connected TV power is turned off.	• Turn on the TV.
There is no sound or only a very low-level sound is heard.	• The equipment connected with the audio cable is not set to receive DVD signal output.	• Select the correct input mode of the audio so you can listen to the sound from the unit.
	• The audio cables are not connected securely .	• Connect the audio cable into the jacks securely.
	• The power of the equipment connected with the audio cable is turned off.	• Turn on the equipment connected with the audio cable.
	• The audio connecting cord is damaged.	• Replace it with new one.
The playback picture is poor.	• The disc is dirty.	• Clean the disc.
The unit does not start playback.	• No disc is inserted.	• Insert a disc. (Check that the DVD, or audio CD indicator in the DVD display is lit.)
	• An unplayable disc is inserted.	• Insert a playable disc. (Check the disc type, color system and Regional code.)
	• The disc is placed upside down.	• Place the disc with the playback side down.
	• The disc is not placed within the guide.	• Place the disc on the disc tray correctly inside the guide.
	• The disc is dirty.	• Clean the disc.
	• A menu is on the TV screen.	• Press the SETUP button to turn off the menu screen.
	• The Rating level is set.	• Cancel the Rating function or change the rating level.
Severe hum or noise is heard.	• The plugs and jacks are dirty.	• Wipe them with a cloth slightly moistened with alcohol.
	• The disc is dirty.	• Clean the disc.
	• The speakers and components are connected poorly.	• Connect the speakers and components securely.
	• The unit is located with too close to the TV.	• Move your TV away from the audio components.
Radio stations cannot be tuned in.	• The antenna is positioned or connected poorly.	• Connect the antenna securely.
		• Adjust the antennas and connect an external antenna if necessary.
	• The signal strength of the stations is too weak (when tuning in with automatic tuning).	• Tune in the station manually.
	• No stations have been preset or preset stations have been cleared (when tuning by scanning preset stations).	• Preset the stations.
The remote control does not work properly.	• The remote control is not pointed at the remote sensor of the unit.	• Point the remote control at the remote sensor of the unit.
	• The remote control is too far from the unit.	• Operate the remote control within about 23 ft (7 m).
	• There is an obstacle in the path of the remote control and the unit.	• Remove the obstacle.
	• The batteries in the remote control are exhausted.	• Replace the batteries with new ones.

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	Heard and McDonald 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

Specifications

General

Power supply	Refer to the main label.
Power consumption	Refer to the main label.
Net Weight	5.9 kg
External dimensions (W x H x D)	280 X 365 X 370 mm

Tuner/Amplifier

FM	Tuning Range	87.5 - 108.0 MHz or 65 -74 MHz, 87.5 -108.0 MHz
	Intermediate Frequency	10.7 MHz
	Signal to Noise Ratio	60/55 dB (Mono/Stereo)
	Frequency Response	140 - 10000 Hz
AM	Tuning Range	522 - 1620 kHz or 520 - 1720 kHz
	Intermediate Frequency	450 kHz
	Signal to Noise Ratio	30 dB
	Frequency Response	140 - 1800 Hz
Output Power		Front: 130 W + 130 W (4Ω, THD 10 %)(MDD262) 100 W + 100 W (4 Ω, THD 10 %)(MDT352) Subwoofer: 150 W (3 Ω, THD 10 %)(MDT 352)
T.H.D		0.5 %
Frequency Response		140 - 20000 Hz
Signal-to-noise ratio		75 dB

DVD/VCD/CD player

Frequency response (audio)	40 - 20000 Hz
Signal-to-noise ratio (audio)	More than 75 dB (1 kHz)
Signal-to-noise ratio (video)	More than 55 dB (1 kHz)
Dynamic range (audio)	More than 75 dB
Video output	1.0 V (p-p), 75 Ω
S-video output	(Y) 1.0 V (p-p), 75 Ω (C) 0.3 V (p-p), 75 Ω
Component Video output	(Y) 1.0 V (p-p), 75 Ω (PB)/(PR) 0.7 V (p-p), 75 Ω

Cassette tape player

Tape Speed	3000 ± 3 % (MTT-111. NORMAL-SPEED)
Wow Flutter	0.25 % (MTT -111, JIS-WTD)
F.F/REW. Time	120 sec (C-60)
Frequency Response	250 - 8000 Hz
Signal to Noise Ratio	43 dB
Channel Separation	45 dB (P/B)/45 dB (R/P)
Erase Ratio	55 dB (MTT-5511)

Speakers

Speaker Name	Front Speaker (L/R) (MDS352V / MDS262V)
Type	Bass Reflex 2Way 3Speaker
Impedance	4 Ω
Frequency Response	55 - 20000 Hz
Sound Pressure Level	86 dB/W (1m)
Rated Input Power	100 W (MDS352V), 130 W (MDS262V)
Max. Input Power	200 W (MDS352V), 260 W (MDS262V)
Net Dimensions (W x H x D)	212 X 416 X 305 mm
Net Weight	6.2 kg

Speaker Name	Subwoofer (MDS352W)
Type	Bass Reflex 1Way 1Speaker
Impedance	3Ω
Frequency Response	50 - 1500 Hz
Sound Pressure Level	84 dB/W (1m)
Rated Input Power	150 W
Max. Input Power	300 W
Net Dimensions (W x H x D)	273 X 325 X 364 mm
Net Weight	7.0 kg

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

P/NO : MFL37206718