SAMSUNG

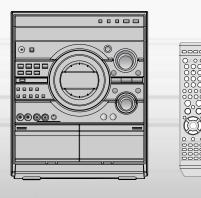
3 DVD MINI **COMPONENT SYSTEM** WITH USB HOST

DVD/VCD/CD/MP3-CD/CD-R/RW PLAYBACK MAX-DT99

THIS APPLIANCE IS MANUFACTURED BY:



Instruction Manual















AH68-01849B



Safety Warnings

KLASSE 1 LASER PRODUCT LUOKAN 1 LASER LAITE KLASS 1 LASER APPARAT



TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE REAR COVER. NO USER
SERVICEABLE PARTS INSIDE. REFER SERVICING TO SERVICE PERSONNEL

CLASS 1 LASER PRODUCT

This Compact Disc player is classified as a CLASS 1 LASER product.

Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation

CAUTION-INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED, AVOID EXPOSURE TO BEAM.



This symbol indicates that dangerous voltage which can cause electric shock is present inside this unit.



This symbol alerts you to important operating and maintenance instructions accompanying the unit.

WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY

(Saudi Arabian Standards Organisation)

THIS APPLIANCE IS FITTED WITH 220V SASO APPROVED PLUG.THE CUSTOMER IS ENTITLED TO A FREE SASO APPROVED 127V PLUG FROM THE LOCAL DEALER.

- EUROPE ONLY -

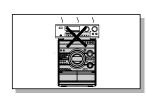
This marking shown on the product or its literature, indicates that it should not This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this tiem for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.



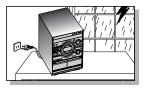








Ensure that the AC power supply in your house complies with the identification sticker located on the back of your player. Install your Ensure that the AC power supply in your house complies with the identification sticker located on the back of your player. Install your player hortzontally, on a suitable base furniture, by the nough space around it for ventilation (S-alienbes). Make sure the stallation Solds are not covered. Do not stack anything on top of the player. Do not place the player on amplifiers or other equipment which may become hot. Before moving the player, ensure the disc tray is empty. This player is designed for confinuous use. Switching off the DVD player to the stand-by mode does not disconnect the electrical supply, in order to disconnect the player completely from the power supply, remove the main plug from the wall outlet, especially when left unused for a long period of time.



During thunderstorms, disconnect AC main plug from the Voltage peaks due to lightning could damage the unit.



This could lead to overheating and malfunction of the unit.



Protect the player from moisture(i.e. vases), and excess heat(e.g.fireplace) or equipment creating strong magnetic or electric fields (i.e.speakers...). Disconnect the power cable from the AC supply if the player malfunctions. Your player is not intended for industrial us.

Use of this product is for personal use only.

Condensation may occur if your player or disc have been stored in cold

If transporting the player during the winter, wait approximately 2 hours until the unit has reached room temperature before using.



The battery used with this product contain chemicals that

Do not dispose of batteries in the general household trash.



Multi-Disc Playback & AM/FM Tuner, TAPE,USB HOST.

The MAX-DT99 combines the convenience of multi-disc playback capability, including DVD-VEDIO, DVD-AUDIO, CD, MP3-CD, CD-R, CD-RW,VCD,DivX,JPEG and DVD-R/RW, with a sophisticated AM/FM tuner, TAPE, USB HOST all in a single player.

TV Screen Saver Function

The MAX-DT99 automatically brightens and darkens the brightness of the TV screen after 3 minutes in the stop mode. The MAX-DT99 automatically switches itself into the power saving mode after 20 minutes in the screen saver mode.

Power Saving Function

The MAX-DT99 automatically shuts itself off after 20 minutes in the stop mode.

Customized TV Screen Display

The MAX-DT99 allows you to select your favorite image during JPEG, VCD/DVD playback and set it as your background wallpaper.



DVD (Digital Versatile Disc) offers fantastic audio and video, thanks to Dolby Digital surround sound and MPEG-2 video compression technology. Now you can enjoy these realistic effects in the home, as if you were in a movie theater or concert hall.



DVD players and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play. The Region Number for this player is given on the rear panel of the player. (Your DVD player will only play DVDs that are labeled with identical region codes.)

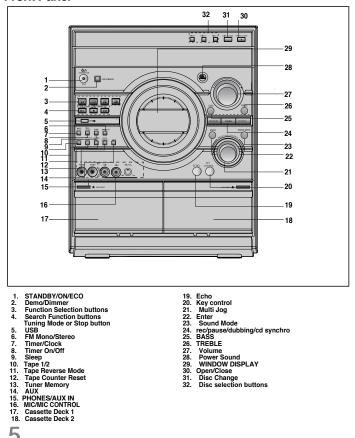
Copy Protection

- · Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted pictur from copy-protected DVD discs.
- This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

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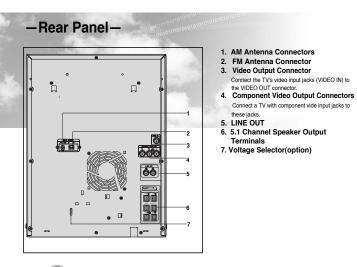
Description

-Front Panel-



- 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17.

19. Echo
20. Key control
21. Multi Jog
22. Enter
23. Sound Mode
24. rec/pause/dubbing/cd synchro
25. BASS
26. TREBLE
27. Volume
28. Power Sound
29. WINDOW DISPLAY
30. Open/Close
31. Disc Change
32. Disc selection buttons

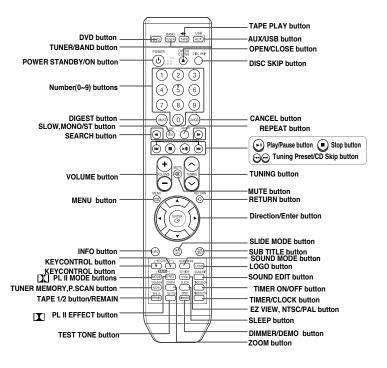


Accessories





-Remote Control-



Insert Remote Batteries

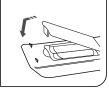
1 Remove the battery cover in the direction of the arrow.



2 Insert two 1.5V AAA batteries, paying attention to the correct polarities (+ and -).



3 Replace the battery



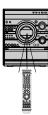
Caution

Follow these precautions to avoid leaking or cracking cells:
• Place batteries in the remote control so they match the polarity:(+) to (+) and (-)to (-).

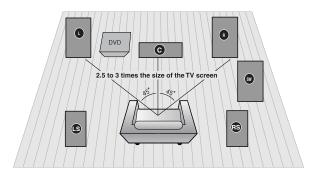
- Use the correct type of batteries.Batteries that look similar may differ in voltage.
 Always replace both batteries at the same time.
- · Do not expose batteries to heat or flame.

Range of Operation of the Remote Control

The remote control can be used up to approximately 23 feet/7 meters in a straight line. It can also be operated at a horizontal angle of up to 30° from the remote control sensor.







Position of the DVD Player

Place it on a stand or cabinet shelf, or under the TV stand.

- Place these speakers in front of your listening position, facing inwards (about 45°) toward you.
 Place the speakers so that their tweeters will be at the same height as your ear.
 Align the front face of the front speakers with the
- front face of the center speaker or place them slightly in front of the center speakers.

Center Speaker **©**

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- It is best to install it at the same height as the front
- speakers.

 You can also install it directly over or under the TV.

Selecting the Listening Position

The listening position should be located about 2.5 to 3 times the distance of the TV's screen size away from the TV. Example: For 32" TVs 2-2.4m (6-8teet)
For 55" TVs 3.5-4m (11~13feet)

Rear Speakers (S) (B)

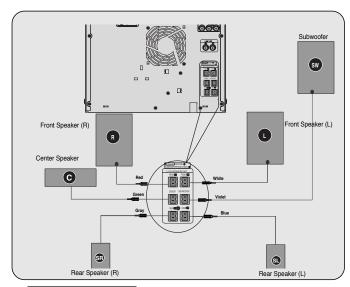


- Place these speakers behind your listening position.
 If there isn't enough room, place these speakers to face each other.
 Place them about 60 to 90cm (2 to 3feet) above your ear, facing
- * Unlike the front and center speakers, the rear speakers are used to handle mainly sound effects and sound will not come from them all the time.

Subwoofer ®

- The position of the subwoofer is not so critical.
- Place it anywhere you like.

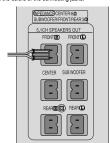
 Usually, it is placed by a corner near the front speakers.



Back of the Main Unit

Connect the connecting jacks to the back of the DVD player.

Make sure the colors of the speaker terminals match the colors of the connecting jacks.





Connecting to a TV

Please be sure to turn off the power and unplug the power cord before moving or installing this unit. Please choose one of three video connection methods.

Method 1 Using Video Out (Good Quality)

- 1 Connect Video Out on the player to Video In on your TV.
- 2 Press the TV/VIDEO button on the remote of TV control to set the TV to "VIDEO".



Component Video (Best Quality)

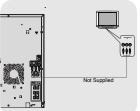
Use this method if your TV have Pr,Pb and Y jacks.

If you television is equipped with Component Video inputs,connect a component video cable from the Pr,Pb and Y jacks on the back panel of the system to the corresponding jacks on your television.



Note

• Composite Video: A single video signal that is a composite of the black-and-white information (Y) and the color information (C) · S-Video: A video transmission standard that provides a sharper, brighter picture than ordinary composite video by separating brightness and color signals.



P.SCAN (Progressive Scan) Function

Unlike regular Interlace Scan, in which two fields of picture information alternate to create the entire picture (odd scan lines, then even scan lines), Progressive Scan uses one field of information (all lines displayed in one pass) to create a clear and detailed picture without visible scan lines.

Press and hold P.SCAN button on the remote controller for over 5 seconds in STOP mode.

• Pressing and holding the button for over 5 seconds will select "Progressive Scan" and "Interlace Scan" repetitively.

What is Progressive (or Non-Interlaced) Scanning?

Interlaced Scan (1 FRAME = 2 FIELDS) Progressive Scan (FULL FRAME) even -----In interlaced-scan video, a frame consists of two interlaced fields (odd and even), where each field contains every other horizontal line in the frame. The odd field of alternating lines is displayed first, and The progressive scanning method scans one full frame of video consecutively down the screen, line by line. An entire image is drawn at one time, as opposed to the interlaced scanning process by which a video image is then the even field is displayed to fill in the alternating gaps left by the odd field to form a single frame. drawn in a series of passes. The progressive scanning method is desirable for dealing with moving objects. gaps iet ny trie cod nele to form a single trame. One frame, displayed every 175th of a second, contains two interfaced fields, thus a total of 50 fields are displayed every 1/50th of a second. The interfaced scanning method is intended for capturing a still object.



- This function works only on TVs equipped with component video inputs (Y, Pr, Pb) that support Progressive Video. (It does not work on TVs with conventional component inputs, i.e., non-progressive scan TVs.)
 - Depending on the brand and model of your TV, this function may not work.

Selecting the Video Format

Turn off the main unit and then press NTSC/PAL on the Remote Control or REC/PAUSE on the Main Unit.

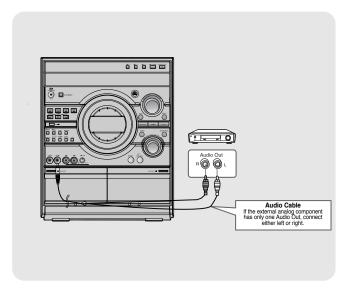
- . By default, the video format is set to "PAL".
- Each time the button is pressed, the video format switches between "NTSC" and "PAL".
- . Each country has a different video format standard.
- For normal playback, the video format of the disc must be the same as the video format of your TV



Connecting External Components

Connecting an External Analog Component

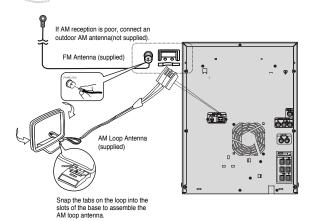
Example: Analog signal components such as a VCR, Camcorder, and TV.



- Connect Audio In on the DVD player to Audio Out on the external analog component.
 Be sure to match connector colors.
- Press AUX to select AUX.
 'AUX' appears in the display.



Connecting the FM, AM(MW) Antennas



FM antenna connection

- Connect the FM antenna supplied to the FM 75Ω COAXIAL terminal as a temporary measure.
- Slowly move the antenna wire around until you find a location where reception is good, then fasten it to a wall or other rigid surface.
- If reception is poor, connect an outdoor antenna. Before attaching a 75Ω coaxial cable (with a standard type connector), disconnect the supplied FM antenna.

AM (MW) antenna connection

- 1. Connect the AM loop antenna supplied to the AM and $\, m \,$ terminals.
- If reception is poor, connect an outdoor single vinyl-covered wire to the AM terminal. (Keep the AM loop antenna connected)

Cooling Fan

The cooling fan dissipates the heat generated inside the unit so that the unit can be operated normally. The cooling fan is activated automatically to supply cool air to the unit.



Please observe the following cautions for your safety.

- Make sure the unit is well-ventilated. If the unit has poor ventilation, the temperature inside the unit could rise and may damage it.
- Do not obstruct the cooling fan or ventilation holes. (If the cooling fan or ventilation holes are covered with a newspaper or cloth, heat may build up inside the unit and fire may result.)



Setting the Clock

For each step, you have a few seconds to set the required options If you exceed this time, you must start again.

Switch the system on by pressing POWER button.

Press TIMER/CLOCK twice.

· CLOCK is displayed.

Press ENTER. The hour flashes.

- Increase the hours : >
- Decrease the hours : ◀

- When the correct hour is displayed. press ENTER. The minutes flash.
- Increase the minutes : • Decrease the minutes : <

When the correct time is displayed. press ENTER.

- The current time is now set.



· You can display the time, even when you are using another function, by pressing TIMER/CLOCK once.

• "TIMER" appears in the display.

·You can also use Multi-Jog or I◄◄ ▶►I button on the panel front instead of ◀ ,▶ buttons in step 3,4.



Press the REMAIN button.

· For checking the total and remaining time of a title or chapter being played.

Each time the REMAIN button is pressed







Selecting a CD in the Disc changer

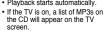
The CD function is automatically selected when Disc Skip is pushed. To select a specific disc, press the corresponding DISC (1,2,3) button on the front panel or DISC SKIP on the remote control, until the required disc indicator flashes. Result: All the discs will be played in turn, starting with the one selected.

- If you use the DISC (1, 2, 3) function when listening to the radio or to a tape, the system switches automatically to the CD mode.
- · If the disc selected is not loaded, the next disc is played automatically





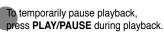








- . Depending on the content of the disc, the initial screen may appear different.
- Depending on the recording mode, some MP3-CDs cannot be played.
- Table of contents of a MP3-CD varies depending on the MP3 track format recorded on the disc.



 To resume playback, press PLAY/PAUSE button again.

To stop playback, press STOP during playback.

- If pressed once, "PRESS PLAY" is displayed and the stop position will be stored in memory. If PLAYPAUSE

 (►/II) button or ENTER button is pressed, playback resumes from the stop position. (This function works
- only with DVDs.)
 If pressed twice, "STOP" is displayed, and if
 PLAY/PAUSE (►/II) button is pressed, playback starts from the beginning.

Disc terminology

Groups and tracks (DVD-AUDIO)

• DVD-audios are divided into several large sections called "groups" and smaller sections called "tracks". Numbers are allotted to these sections. These numbers are called "group numbers" and "track numbers"



Titles and chapters (DVD-VIDEO)

• DVD-videos are divided into several large sections called "titles" and smaller sections called "chapters". Numbers are allotted to these sections. These numbers are called "title numbers" and "chapter numbers".



Tracks (Video and music CDs)

· Video and music CDs are divided into sections called "tracks". Numbers are allotted to these sections. These numbers are called "track numbers".



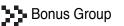


- Note In this manual, the instructions marked with "DVD (DVD)" are applicable to DVD-VIDEO, DVD-AUDIO, and DVD-R/RW discs. Where a particular DVD type is mentioned, it is indicated separately.
 - Depending on the content of the disc, the initial screen may appear different.



Bonus Group / Navigating Pages







Some DVD-Audio discs have an extra 'bonus' group that requires a 4-digit key number to access. See the disc packaging for details and the-key number

When you play a DVD-Audio disc that has a bonus group, the key number input screen appears automatically.



. If you eject the disc, switch the power off, or unplug the player, you will need to re-enter the key number.





During playback, press the 🛇 button on the remote control.

You can select the desired image from a DVD-Audio disc containing still images.
 With some discs, you may not be able to select images depending on how the disc was manufactured.



Skip Forward/Back

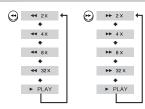
During playback, press the I◄◄►►I button.

- Go to the next file whenever you press ▶►I button, if there are over 2 files in the disk.

Fast playback

Press ◆◆ ▶ button.

· Each time the button is pressed during playback, the playback speed changes as follow





Press **ZOOM** button.

· Each time you press the button, your selection will toggle between "ZOOM X2" and "ZOOM OFF".

Press Cursor ▲, ▼, ◀ , ▶ buttons to move to the area you want to enlarge.

· DivX files can be played in



5 Minute Skip function

During playback, press the ◀, ▶ button.

- Go to the screen about 5 minutes after whenever you press ▶ button.
- Go to the screen about 5 minutes earlier whenever you press ◀ button.

Subtitle Display

Press the SUBTITLE button.

- Each time you press the button, your selection will toggle between "SUBTITLE ON" and "SUBTITLE OFF".
 If the disc has only one subtitle file, it will be played automatically.
- Up to 8 subtitle languages are supported.

Avi files are used to contain the audio and video data; these must be stored on CD in the ISO 9660 format.

| | | SPEC |
|---------------------|----------|--------------------------|
| VIDEO Compatibility | DivX3.11 | Up to the latest VERSION |
| | WMV | WMV V1/V2/V3/V7 |
| AUDIO Compatibility | MP3 | CBR: 80kbps~384kbps |
| | AC3 | CBR: 128kbps~384kbps |
| | WMA | CBR: 56kbps~128kbps |

- MPEGs containing DivX can be divided into Video and Audio.

 Video compatibility: All versions of DivX later than 3.11 (including the latest 5.1) are supported. In addition, XviD is supported. For WMV, V1, V2, V3, and V7 formats are possible.

 The initial resolution is 720X480 and may support up to 720X576.
- Audio compatibility: MP3s encoded at bitrates from 80kbps to 384kbps, AC3s from 128kbps to 384kbps, and WMAs from 56kbps to 128kbps are supported.
- In addition, for subtitles, this unit will support Text format (SMI).

- When playing the DivX disk, you can play the file with extension of AVI only.
 - Among the available DivX audio formats, DTS Audio is not supported.
 - . WMV V8 is not supported for WMV files.
 - When burning a subtitle file to a CD-ROM with your PC, be sure to burn it as an SMI file. . Divx Disc does not playing when its sampling frequency is lower than 32KHz.
 - Some of the discs recorded in DivX or XviD depending on the way of recording could be played back not correctly or couldn't be played back at all.
 - MP3 file support: MPEG1 LAYER3 (BITRATE : 128KBPS~320KBPS , SAMPLING FREQ.: 32K/44.1K/48KHz).



Playing Media Files using the USB feature

You can connect and play files from external USB storage devices such as MP3 players, USB flash memory,

connect the USB cable



Press the USB button on the main unit or the AUX button on the remote control to select the USB mode.

- "USB" appears on the display screen and then disappear.

 • USB SORTING screen appears on the
- TV screen and the saved file is played



To stop playback, press the STOP (■) button.



- Note Video files (DivX. WMV. MPEG. etc.) are supported.
 - To prevent the loss of data saved in the USB device, please turn the unit off or switch it to another mode before disconnecting the USB cable.

To play a file in the USB menu screen,



- Music File Icon
- Image File Icon
- All File Icon
- Movie File Icon

Press the ◀ ▶ ▲ ▼ button when it is in stop status and select a desired icon from the top part of the menu.

- To view image files only, select the 🔼 Icon.
- To select all files select the All Icon.
- To view movie files only, select the 📘 Icon.



Skip Forward/Back

During playback, press the I◄◄ ►►Ibutton.

- When there is more than a file, when you press the
 When there is more than a file, when you press the
 When there is more than a file, when you press the
 Idd button, the previous file is selected.

Fast playback

To playback the disc at a faster speed, press ◀ or ▶ during playback.

Each time you press either button, the playback speed will change as follows:
 2x → 4x → 8x → 32x → Normal.

Compatible Devices

- 1. USB devices that support USB Mass Storage v1.0. (USB devices that operate as a removable disk in Windows (2000 or later) without additional driver installation.)
- 2. MP3 Player: HDD and flash type MP3 player.
- 3. Digital camera: PTP protocol is not supported.
- Devices which require additional program installation when you have connected it to a computer, are not
- 4. USB HDD and USB Flash Drive: Devices that support USB2.0 or USB1.1.
 - You may experience a difference in playback quality when you connect a USB1.1 device.
 - For a USB HDD, make sure to connect an auxiliary power cord to the USB HDD for proper operation.
- 5. USB card Reader: One slot USB card reader and Multi slot USB card reader
 - Depending on the manufacturer. the USB card reader may not be supported.
 - If you install multiple memory devices into a multi card reader, you may experience problems.

Supported Formats

| | File name | File extension | Bit rate | Version | Pixel | Sampling
Frequency |
|---------------|-----------|----------------|------------|-----------------------|---------|-----------------------|
| Still Picture | JPG | .JPG .JPEG | - | - | 640*480 | - |
| Music | MP3 | .MP3 | 80~384kbps | - | - | 44.1kHz |
| Wiusic | WMA | .WMA | 56~128kbps | V8 | - | 44.1kHz |
| Movie | VCD | MPG.MPEG .DAT | 1.5Mbps | VCD1.1,VCD2.0 | 320*480 | 44.1KHz |
| | WMV | WMV | 4Mbps | V1,V2,V3,V7 | 720*480 | 44.1KHz~48KHz |
| | | | | (V9 is not supported) | | |
| | DivX | .AVI,.ASF | 4Mbps | DivX3.11~DivX5.1,Xvid | 720*480 | 44.1KHz~48KHz |

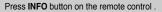
• A device using NTFS file system is not supported.(Only FAT file system is supported.)

The USB host function of this product does not support all USB devices. For the information on the supported devices,pls see the P78

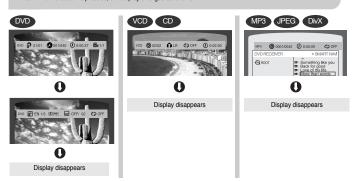


Displaying Disc Information

You can view playback information on the disc on the TV screen.



• Each time the button is pressed, the display changes as follows:



Note

- · Depending on the disc, the disc information display may appear different.
- Depending on the disc, you can also select DOLBY DIGITAL, or PRO LOGIC.
- · What is a Title? A movie contained in a DVD disc
- What is a Chapter?
 Each title on a DVD disc is divided into several smaller sections called "chapters".
- appears on the TV screen!
 If this symbol appears on the TV screen while buttons are being operated, that operation is not possible with the disc currently being played.

- What is a Track (File)?
 A section of video or a music file recorded on a VCD, CD, or MP3-CD.



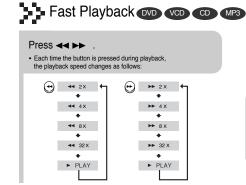


4 5 6

 $\odot \ \odot \ \odot \ \odot$

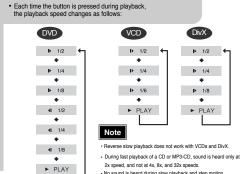
TOVOTAPEUSBTUNER] (+)

Fast/Slow Playback





Press SLOW button.



- No sound is heard during slow playback and step motion



Skipping Scenes/Songs



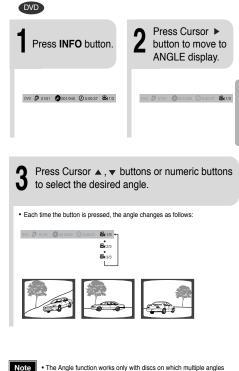












The Angle function works only with discs on which multiple angles have been recorded.



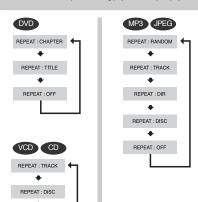
Repeat Playback

Repeat playback allows you to repeatedly play a chapter, title, track (song), or directory (MP3 file).



Press **REPEAT** button.

• Each time the button is pressed during playback, the repeat playback mode changes as follows:



Repeat Playback Options

CHAPTER

Repeatedly plays the selected chapter.

TITLE Repeatedly plays the selected title.

RANDOM

Plays tracks in random order. (A track that has already been played may be played again.)

TRACK

Repeatedly plays the selected track.

Repeatedly plays all tracks in the

Repeatedly plays the entire disc.

OFF

Cancels Repeat Playback.



REPEAT : OFF

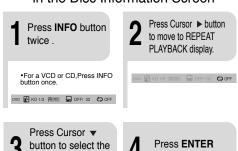
Repeat playback operation is not possible with version 2.0 VCD discs if PBC is turned on.

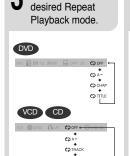
To use Repeat Playback on a VCD with PBC, you should set the PBC to OFF in the disc menu. (See page 35.)





To Select a Repeat Playback Mode in the Disc Information Screen





Press ENTER button.

Note

- For MP3 and JPEG discs, you cannot select Repeat Play from the information display screen.
- For VCD Version 2.0 discs, you can select Repeat Play in PBC off mode.



A↔B Repeat Playback



Press INFO button twice.

• For a VCD or CD, press INFO

Press Cursor button to move to REPEAT PLAYBACK (で) display.

DVD 🖺 KO 1/3 👯 🔙 OFF/ 02 🗘 OFF

Press Cursor ▲, ▼ buttons to select 'A-' and then press ENTER button at the beginning of the desired segment.

When ENTER button is pressed, the selected position will be stored in memory.

0

Press ENTER button at the end of the desired segment.

The specified segment will be played repeatedly.

To return to normal playback, press Cursor A, buttons to select COOFF.

Note

. The A-B Repeat function will not work on an MP3 or JPEG disc.





Zoom (Screen Enlarge) Function

DVD VCD

Press button. Press **ZOOM**



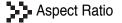
Press Cursor ▲, ▼, move to the area you want to enlarge.



Press ENTER button.

Each time the button is pressed, the zoom level changes as follows:





Press EZ VIEW button.

· Each time the button is pressed, the zoom function will switch between On When a movie is played in Wide screen format, black bars at the top and bottom of the TV screen can be removed by pressing the EZ VIEW button.



- . This function will not work if the DVD is recorded with multi-camera angle format.
- Black bars may not disappear because some DVD discs have a built-in horizontal to vertical ratio.



Selecting Audio Subtitle Language



Press Cursor ▲, ▼ buttons or numeric buttons to select the desired audio language.

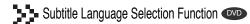
 Depending on the number of languages on a DVD disc, a different audio language (ENGLISH, SPAIN, JAPANESE, etc.) is selected each time the button is pressed. DVD PEN 1/3 PRESS GOFF 02 COOFF

Press Cursor ▶

button to move to

SUBTITLE display.

DVD E EN 1/3 PRESS - OFF/ 02 CO OFF



Press INFO button twice.

DVD PEN 1/3 PREM GOFF/ 02 COFF



SP 02/ 03
FR 03/ 03
OFF / 03

- . You can use the SUBTITLE button on the remote control to select a subtitle
- Depending on the disc, the Subtitle and Audio Language functions may not work







DVD 🗗 01/05 🚷 001/040 🕖 0:00:37 🙈 1/1

Moving to a Title/Track Press Cursor ▲, ▼ buttons or numeric buttons to select the desired title/track and then press ENTER button.

DVD 🔐 03/05 🔞 001/002 🕖 0:00:01 🛎(1/1

Moving to a Chapter

Press Cursor ◀, ▶ buttons to move to Chapter display.

DVD 🗗 01/05 🐶 001/040 🕖 0:00:01 😽 1/1

Moving to a Chapter

Press Cursor ▲, ▼ buttons or numeric buttons to select the desired chapter and then press ENTER button.

DVD 🗗 01/05 🐧 025/040 🕖 0.00:01 🕮 1/1

Moving to a Specific Time

Press Cursor ◀, ▶ buttons to move to time display.

DVD 🔐 01/05 🚷 025/040 🕖 1:17:30 🙈 (1/1

Moving to a Specific Time

Press the numeric buttons to select the desired time and then press ENTER button.

OVO 🗗 01/05 🐧 028/040 **① 1:30:00** 😂 1/1



Press the numeric buttons.

- . The selected file will be played. A MP3 or JPEG disc cannot be moved from the disc information screen
- · When playing a MP3 or JEPG disc, you cannot use ▲ .▼ to move a folder To move a folder, press ■ (Stop) and then press ▲ ,▼ .



- You can press I◄◄ ▶►I on the remote control to move directly to the desired title, chapter, or track.
- Depending on the disc, you may not be able to move to the selected title or



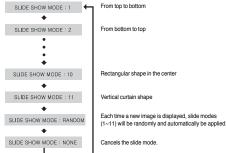


Place the JPEG disc on the disc tray.

Press the OPEN/CLOSE button.

Press SLIDE MODE button.

Playback starts automatically.
 Each time the button is pressed, the image makes the transition as follows:



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DVD TUNER TAPE (AUX

Press I◀◀ ▶▶I to skip to the next slide.

Each time the button is pressed, the slide moves backward or forward.



Press **DIGEST** button during playback.

 JPEG files will be shown in 9 windows.



Press Cursor ▲, ▼, ∢, ▶ buttons to select the desired image and then press ENTER button.

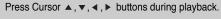
 The selected image is played for 5 seconds before moving to the next image.

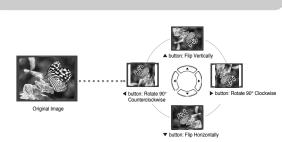




To view the previous or next image with 9 windows, press I◄◄.▶► .

Rotate/Flip Function









Press Cursor ▲, ▼buttons

to move to 'DISC MENU'

When you select the disc menu that is not

supported by the disc, the "This menu is not supported" message appears on the screen.

Press ENTER button.

and then press ENTER

button

DVD TUNER TAPE AUX

DVD/TAPEUSB/TUNER |



In stop mode, Press MENU button.

• When playing a VCD (version 2.0), this toggles between PBC ON and OFF.



Press Cursor ▲, ▼, ◀, ▶buttons to select the desired item.



PBC (Playback Control) Function

When playing a VCD (version 2.0), you can select and view various scenes according to the menu screen.

PBC ON: This VCD disc is version 2.0. The disc is played back according to the menu screen. Some functions may be disabled. When some functions are disabled, select "PBC OFF" to enable them.

PBC OFF: This VCD disc is version 1.1. The disc is played back in the same way as with a music CD.



Using the Title Menu

For DVDs containing multiple titles, you can view the title of each movie.

Depending on the disc, this function may either not work at all or may work differently.

In stop mode Press MENU button.

Press Cursor ▲, ▼ button to move to 'Title Menu'.

Press ENTER button.

. The title menu appears.







Press MENU button to exit the setup screen.



Setting the Language

OSD language is set to English by default.

In stop mode,Press MENU button.

Press Cursor ▼ button to move to 'Setup' and then press **ENTER** button.

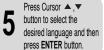
Press **ENTER** button.







Press Cursor ▲.▼ button to select the desired item and then press ENTER button.



press ENTER button.

Once the setup is complete, if the language was set to English, OSD will be displayed in English.



· To select other language, select OTHER and enter the language code of your country. (See 38 page for language code of countries) AUDIO, SUB TITLE and DISC MENU

language can be selected.











OSD Language







Audio Language (recorded on the disc) Subtitle Language (recorded on the disc)

Selecting the Disc Menu Language (recorded on the disc) * If the language you selected is not recorded on the disc, menu language will not change even if you set it to your desired language.

Press MENU button to exit the setup screen.

Press RETURN button to return to the previous level.



Language Code List

Enter the appropriate code number for the initial settings "Disc Audio", "Disc Subtitle" and/or "Disc Menu" (See page 35).

| Code | Language | Code | Language | Code | Language | Code | Language |
|------|-----------------|------|--------------|------|------------------|------|------------|
| 1027 | Afar | 1181 | Frisian | 1334 | Latvian, Lettish | 1506 | Slovenian |
| 1028 | Abkhazian | 1183 | Irish | 1345 | Malagasy | 1507 | Samoan |
| 1032 | Afrikaans | 1186 | Scots Gaelic | 1347 | Maori | 1508 | Shona |
| 1039 | Amharic | 1194 | Galician | 1349 | Macedonian | 1509 | Somali |
| 1044 | Arabic | 1196 | Guarani | 1350 | Malayalam | 1511 | Albanian |
| 1045 | Assamese | 1203 | Gujarati | 1352 | Mongolian | 1512 | Serbian |
| 1051 | Aymara | 1209 | Hausa | 1353 | Moldavian | 1513 | Siswati |
| 1052 | Azerbaijani | 1217 | Hindi | 1356 | Marathi | 1514 | Sesotho |
| 1053 | Bashkir | 1226 | Croatian | 1357 | Malay | 1515 | Sundanese |
| 1057 | Byelorussian | 1229 | Hungarian | 1358 | Maltese | 1516 | Swedish |
| 1059 | Bulgarian | 1233 | Armenian | 1363 | Burmese | 1517 | Swahili |
| 1060 | Bihari | 1235 | Interlingua | 1365 | Nauru | 1521 | Tamil |
| 1069 | Bislama | 1239 | Interlingue | 1369 | Nepali | 1525 | Tegulu |
| 1066 | Bengali; Bangla | 1245 | Inupiak | 1376 | Dutch | 1527 | Tajik |
| 1067 | Tibetan | 1248 | Indonesian | 1379 | Norwegian | 1528 | Thai |
| 1070 | Breton | 1253 | Icelandic | 1393 | Occitan | 1529 | Tigrinya |
| 1079 | Catalan | 1254 | Italian | 1403 | (Afan) Oromo | 1531 | Turkmen |
| 1093 | Corsican | 1257 | Hebrew | 1408 | Oriya | 1532 | Tagalog |
| 1097 | Czech | 1261 | Japanese | 1417 | Punjabi | 1534 | Setswana |
| 1103 | Welsh | 1269 | Yiddish | 1428 | Polish | 1535 | Tonga |
| 1105 | Danish | 1283 | Javanese | 1435 | Pashto, Pushto | 1538 | Turkish |
| 1109 | German | 1287 | Georgian | 1436 | Portuguese | 1539 | Tsonga |
| 1130 | Bhutani | 1297 | Kazakh | 1463 | Quechua | 1540 | Tatar |
| 1142 | Greek | 1298 | Greenlandic | 1481 | Rhaeto-Romance | 1543 | Twi |
| 1144 | English | 1299 | Cambodian | 1482 | Kirundi | 1557 | Ukrainian |
| 1145 | Esperanto | 1300 | Kannada | 1483 | Romanian | 1564 | Urdu |
| 1149 | Spanish | 1301 | Korean | 1489 | Russian | 1572 | Uzbek |
| 1150 | Estonian | 1305 | Kashmiri | 1491 | Kinyarwanda | 1581 | Vietnamese |
| 1151 | Basque | 1307 | Kurdish | 1495 | Sanskrit | 1587 | Volapuk |
| 1157 | Persian | 1311 | Kirghiz | 1498 | Sindhi | 1613 | Wolof |
| 1165 | Finnish | 1313 | Latin | 1501 | Sangro | 1632 | Xhosa |
| 1166 | Fiji | 1326 | Lingala | 1502 | Serbo-Croatian | 1665 | Yoruba |
| 1171 | Faeroese | 1327 | Laothian | 1503 | Singhalese | 1684 | Chinese |
| 1174 | French | 1332 | Lithuanian | 1505 | Slovak | 1697 | Zulu |



Setting TV Screen type



In stop mode, Press MENU button.



Press Cursor ▼ button to move to 'Setup' and then press ENTER button.



Press Cursor ▼ button to move to 'TV DISPLAY' and then press ENTER button.



Press Cursor ▲,▼ button to select the desired item and then press ENTER button.

Once the setup is complete, you will be taken to the previous screen.



Adjusting the TV Aspect Ratio (Screen Size)

The horizontal to vertical screen size ratio of conventional TVs is 4:3, while that of wide screen and high definition TVs is 16:9. This ratio is called the aspect ratio. When playing DVDs recorded in different screen size, you should adjust the aspect ratio to fit your TV or monitor.

★ For a standard TV, select either "4:3LB" or "4:3PS" option according to personal preference. Select "16:9" if you have a wide screen TV.

WIDE

Select this to view a 16:9 picture in the full-screen mode on your wide screen TV.

You can enjoy the wide screen aspect.



4:3LB (4:3 Letter box)

Select this to play a 16:9 picture in the letter box mode on a conventional TV.

· Black bars will appear at the top and bottom of the screen.



Select this to play a 16:9 picture in the pan & scan mode on a conventional TV.

You can see the central portion of the screen only (with the sides of the 16:9 picture cut off).



If a DVD is in the 4:3 ratio, you cannot view it in wide screen.
 Since DVD discs are recorded in various image formats, they will look different depending on the software, the type of TV, and the TV aspect ratio setting.

Press RETURN button to return to the previous level.

Press MENU button to exit the setup screen.



Setting Parental Controls (Rating Level)

Use this to restrict playback of adult or violent DVDs you do not want children to view.



in stop mode,Press

MENU button.

Press Cursor ▼ button to move to 'Setup' and then press ENTER button.

Press Cursor ▼
button to move to
'PARENTAL' and then
press ENTER button.





Press **MENU** button.



Press Cursor ▼
button to move to
'Setup' and then
press ENTER button.

Press
mov
and
butto



Press Cursor v button to move to 'PASSWORD' and then press ENTER button.



Press Cursor A, V button to select the desired rating level and then press ENTER button.

- If you have selected Level 6, you cannot view DVDs with Level 7 or
- higher.

 The higher the level, the closer the content is to violent or adult material.



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5 Enter the password and then press ENTER button.

The password is set to "7890" by default.
Once the setup is complete, you will be taken to the previous screen.



Note

 This function works only if a DVD disc contains the rating level information. Press ENTER button.



Enter the password and then press ENTER button.

Enter the old password, a new password, and confirm new password.
 The setting is complete.



Press RETURN button to return to the previous level.

Press MENU button to exit the setup screen.

Press RETURN button to return to the previous level.

Press CANCEL button to cancel the error numeric when you inputting password.

Press **MENU** button to exit the setup screen.



Setting the Wallpaper

During playback, press PLAY/PAUSE button when the image you like comes up.



Press LOGO button.

 "COPY LOGO DATA" will be displayed on the TV screen.



- The selected wallpaper will be displayed.
 You can repeat Steps 1 and 2 to set up to 3 wallpapers.
 The power will turn off and turn on automatically and back on the display mode.





Press MENU button.



Press Cursor ▼ button to move to 'Setup' and then press ENTER button.





Press Cursor ▼

button to move to

'LOGO' and then

press ENTER button.

Press ▼ to select the desired 'USER', and then press ENTER.



Press **MENU** button to exit the setup screen.







Select this to set the desired image as your wallpaper

Press RETURN button to return to the previous level.

Press MENU button to exit the setup screen.



Some DVD-Audio discs contain DVD-Video as well as DVD-Audio.
To play back the DVD-Video portion of the DVD-Audio disc, set the unit to DVD-Video mode.



Press the **MENU** button while the disc tray is open.



Press Cursor ▼ button to move to 'DVD TYPE' and then press ENTER button.



Press Cursor • button to move to 'Setup' and then press ENTER button.



Press Cursor ▲.▼ button to move to 'DVD VIDEO' and then press ENTER button.

. Set steps 1 ~ 4 again if you want to switch to DVD AUDIO Play mode.



When Selecting DVD Play Mode:

• DVD VIDEO : set to play the DVD video contents contained in DVD audio disc.

DVD AUDIO : set to play the default DVD

AV SYNC Setup

Video may look slower than the audio if it is connected with digital TV. In this case, adjust the delay time of audio to optimal status to fit the video.

Press the **MENU** button.

· Setup menu appears.



Press Cursor \blacktriangle , \blacktriangledown buttons to move to 'Audio' and then press ENTER button.

· 'Audio' menu appears.



Press Cursor ▲, ▼ buttons to move to 'AV-SYNC' and then press **ENTER** button.

AV-SYNC screen appears.

Press Cursor ▲, ▼ buttons to select the Delay Time of AV-SYNC and then press the ENTER button.

 You can set the audio delay time between 0 ms and 300 ms. Set it to the optimal status.



Note

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 DVD Play mode is set to DVD Audio as factory default setting Press RETURN button to return to the previous level.

Press MENU button to exit the setup screen.

Press RETURN button to return to the previous level.

Press MENU button to exit the setup screen.





according to your speaker configuration and whether certain speakers are used or not.

In Stop mode, press **MENU** button.



In the Speaker Setup, press the ENTER button again.



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Press Cursor ▼

button to move to

'Audio' and then

press ENTER button.



. For C. LS. and RS, each time the button is pressed, the mode switches alternately as follows: SMALL → NONE.

For L and R, the mode is set to SMALL.







In Stop mode, press **MENU** button.



Press Cursor ▼ button to move to 'Audio' and then press ENTER button.



Press Cursor ▼ button to move to 'TEST TONE' and then press ENTER button.

• The test tone will be sent to L ightharpoonup C
ightharpoonup R
ightharpoonup SR
ightharpoonup SR
ightharpoonup SW in that order. If the ENTER button is pressed again at this time, the test tone will stop.





Press RETURN button to return to the previous level.

Press MENU button to exit the setup screen.

SMALL: Select this when using the speakers. Select this when no speakers are installed

. Depending on PRO LOGIC and STEREO, the speaker mode may vary.

When manually testing using the TEST TONE button

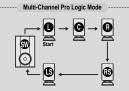
L: Front Speaker (L) C: Center Speaker SW: Subwoofer R: Front Speaker (R) LS: Rear Speaker (L) RS: Rear Speaker (R)

Press TEST TONE button.

Test tone will be produced as follows: When playing a DVD or CD, this will work only in Stop mode.

Use this function to check that each speaker is correctly connected and that there is no problem.

To end the test tone, press TEST TONE button.





If the speakers cannot be placed at equal distances from the listening position, you can adjust the delay time of the audio signals from the center and rear speakers.



In Stop mode, press **MENU** button.

Press Cursor ▼ button to move to 'Audio' and then press ENTER button.



Press Cursor ▼ button to move to 'DELAY TIME' and then press ENTER button.



Press Cursor ▲, ▼,

↓, ▶ buttons to move
to the desired
speaker and then
press ENTER button.



5 Press Cursor ∢ , ► to set the Delay time.

You can set the delay time for C between 00 and 05mSEC and for LS and RS between 00 and 15mSEC.



Setting up the Speaker Delay Time

When 5.1CH Surround Sound is played, you can enjoy the best sound if the distance between you and each speaker is the same. Since the sounds arrive at the listening position at different times depending on the placement of speakers, you can adjust this difference by adding a delay effect to the sound of the Center Speaker and Surround Speakers.

Note

- With (Dolby Pro Logic II), the delay time may be different for each mode.
- With AC-3 and DTS, the delay time can be set between 00 and 15mSEC.

Setting CENTER SPEAKER

If the distance of Dc is equal to or longer than the distance of Df in the figure, set the mode as 0ms.

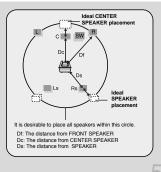
Otherwise, change the setting according to the table.

| Distance between Df and Dc | Delay Time |
|----------------------------|------------|
| 0.00 m | 0 ms |
| 0.34 m | 1 ms |
| 0.68 m | 2 ms |
| 1.02 m | 3 ms |
| 1.36 m | 4 ms |
| 1.70 m | 5 ms |

• Setting REAR () SPEAKERS

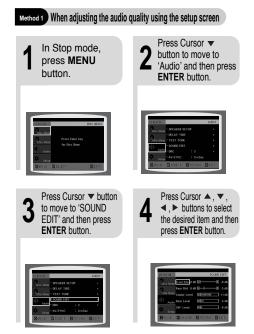
If the distance of Df is equal to the distance of Ds in the figure, set the mode as 0ms. Otherwise, change the setting according to the table.

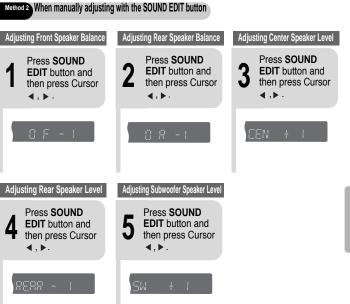
| change the setting according to the table. | | | |
|--|------------|--|--|
| Distance between Df and Ds | Delay Time | | |
| 0.00 m | 0 ms | | |
| 1.02 m | 3 ms | | |
| 2.04 m | 6 ms | | |
| 3.06 m | 9 ms | | |
| 4.08 m | 12 ms | | |
| 5.10 m | 15 ms | | |











Press RETURN button to return to the previous level.

Press MENU button to exit the setup screen.

Adjusting Front/Rear Speaker Balance

 You can select between 00 and -06 and OFF. • The volume decreases as you move closer to -6.

Adjusting Center/Rear/Subwoofer Speaker Level

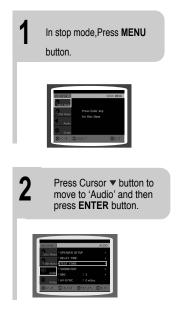
• The volume level can be adjusted in steps from +6dB to -6dB.

• The sound gets louder as you move closer to +6dB and quieter as you get closer to -6dB.

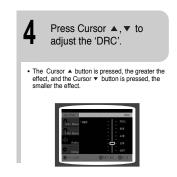


You can use this function to enjoy Dolby Digital sound when watching movies at low volume at night.



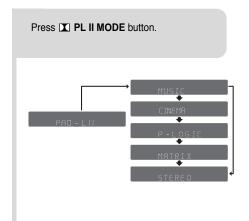


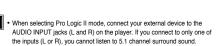




- Press RETURN button to return to the previous level.
- Press MENU button to exit the setup screen.











Press PL II MODE button to select 'MUSIC' mode.

Press PL II EFFECT button and then press Cursor ◀,▶ buttons to select the mode.

You can select between 0 and 7

[-WI]IT

Press DC PL II EFFECT button and then press Cursor ◀,▶ buttons to select the mode. You can select either 0 or 1.

Press PL II EFFECT button and then press Cursor ◀,▶ buttons to select the mode.

. You can select between 0 and 6.

IIIMEN

- When playing a DVD disc encoded with two or more channels, multi-channel mode will be selected automatically and |X|PL|I| (Dolby Pro Logic II) button does not work.

 When using Key Control function, |X|PL|I| (Dolby Pro Logic II) button does not work.

PRO LOGIC II

- MUSIC: When listening to music, you can experience sound effects as if you are listening to the actual performance.
- MOVIE: Adds realism to the movie soundtrack.
- PRO LOGIC: You will experience a realistic multi-channel effect, as if using five speakers, while using just the front left and right speakers.
- MATRIX: You will hear 5.1 channel surround sound.
- STEREO: Select this to listen to sounds from the front left and right speakers and the subwoofer only.
- PANORAMA: This mode extends the front stereo image to include the surround speakers for an exciting "wraparound" effect with side wall imaging.
- CENTER WIDTH: Sound is output to the center speaker only. The front left and right speakers produce phantom sound.
- DIMENSION: Incrementally adjusts the sound field (DSP) from the front or rear.



Listening to Radio

You can listen to the chosen band (FM,MW broadcast stations) by using either the automatic or manual tuning operation.

Remote Control Unit

Press TUNER/ BAND button.

 The selection toggles back and forth between "FM
 →AM" each time the TUNER(BAND) button is pressed. Tune in to the desired station.

Automatic Tuning 1 Press (44 >>) button to select the preset station.

Automatic Tuning 2 Press and hold 🔘 button to automatically search the band.

Manual Tuning Briefly press 💮 button to increase or decrease the frequency incrementally.

Main Unit

Press the TUNER/BAND button to select the desired band (FM, AM).

2 Select a broadcast station.

Automatic Tuning | Press the STOP (■) button to select PRESET and then press | I > Dutton or turn Multi Jog Knob to select the preset station.

Automatic Tuning 2 Press the STOP (III) button to select "AUTO" and then press IIII button or turn Multi-Jog Knob to automatically search the band.

Manual Tuning Press STOP (■) to select MANUAL and then briefly press I◄◀ ▶►I or turn Multi Jog Knob to tune in to a lower or higher frequency.





Example: Presetting FM 89.1 in the memory

Press the
TUNER(BAND)
button and select
the FM band.

 Each time the button is pressed, the band switches between "FM →AM".

FM 91.90

Press 🛇 to select "89.10".

 Refer to Step 2 on page 41 to automatically or manually tune in to a station.

FM 89<u>1</u>0

Press the TUNER MEMORY button.

"PROGRAM" flashes in the display.

FM 89.10

Press ₩ ▶ to select preset number.

You can select between 1 and 15.

FM 89.10

Press the TUNER MEMORY button.

 Press the TUNER MEMORY button before 'PROGRAM' disappears from the display
 'PROGRAM' disappears from the display

 'PROGRAM' disappears from the displa and the station is stored in memory.

FM 89<u>1</u>0

To preset another station, repeat steps 2 to 5.

Note

Press MONO/ST button to listen in Mono/Stereo. (This applies only when listening to an FM station.)

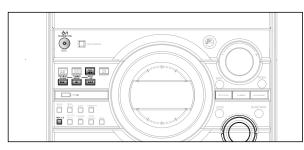
- Each time the button is pressed, the sound switches between "STEREO" and "MONO".
- In a poor reception area, select MONO for a clear, interference-free broadcast.

To tune in to a preset station, press on the remote control to select a channel.



Listening to a Cassette

Always treat your cassettes with care; refer, if necessary, to the section entitled "Precautions When Using Audio Cassettes" on page 70.



Switch the system on by pressing STANDBY ON.

Press TAPE on the player to select the Tape function.

- Press the **PUSH EJECT** (♠) of the cassette deck to open the cassette door and insert a cassette.
- Insert a cassette with the recording/playback side facing the cassette holder, and then push the cassette door shut.

- Press the ◀▶ button. The cassette starts playing.
- Side A : Tape (◀►) button once. Side B : Tape (◄►) button twice

Press DECK 1/2 button to select the cassette to be played.

- 5 Press the I◄◄,►►I button if necessor.
- Rewind the cassette I◄◄/ DOWN button.
 • Fast-forward the cassette UP / ▶►I

When you have finished playback, press STOP button.

Selecting the Cassette Playback Mode

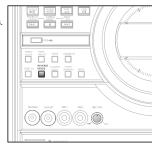
Your micro component system has three cassette playback modes which enable you to listen to both sides of a cassette automatically. .

Press REVERSE MODE until the appropriate symbol is displayed.

- = : One side of the selected cassette and then stops.
- : One side of the cassette.

The other side of the cassette and then stops.

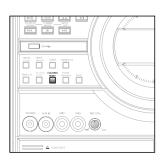
Both sides of the cassette indefinitely until you press stop.



Tape Counter

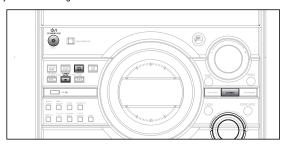
When playing a cassette in one of the cassette decks, a counter is displayed to enable you to take note of the counter value at the start of each track to start playback at the beginning of the track to which you wish to

- . Before starting to record a cassette for which you wish to take note of the counter values at the beginning of each track, reset the counter by pressing **COUNTER RESET** .
- · Each cassette deck has a separate counter



Coping a Cassette(Dubbing)

- You can copy a cassette from Tape 1 to Tape 2.
- •Normal speed dubbing in selecting Tape function mode.
- •You do not need to adjust the volume, as it has no effect on the recording.
- •Take care not to insert the tape to be copied in Tape 2, as it will be erased when you start recording.



Switch the system on by pressing STANDBY/ON.

2 Insert a blank cassette in Tape 2.

3 Insert the tape to be copied in Tape 1.

Press **DUBBING** button to copy a cassette.

The appropriate indications are displayed and the cassette in Tape 1 is copied to the cassette in Tape 2.

5 Press STOP button.

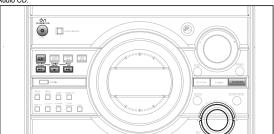
Note

In Recoding, DPL II doesn't work.



Synchronised recording

This feature enables you to synchronize the start of the recording with the start of the disc or track of your choice only on Audio CD.



Switch the system on by pressing STANDBY/ON.

2 Insert a blank cassette in Tape 2.

 Press the PUSH/EJECT button (♠) to open the cassette door, insert a cassette, and then close the cassette door.

Insert the cassette with the safety tabs.

3 Load a compact disc.

Press the OPEN/CLOSE button (♠)
to open the CD door.

to open the CD door.

• Insert a CD and press the

OPEN/CLOSE button (▲) to close
the CD door.

Press the **DVD/CD** (>/||) button.

 Use the CD selection (I◄◄, ▶►I) buttons to select the desired song. Press CD SYNCHRO button.

 When stopped, press the button to start the recording from the first piece of music.

Press and hold CD SYNCHRO button during the playback of CD to start the recording from the first part of the music being played.

6 To stop recording, press ■ button.

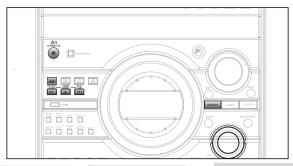
Note

 You can use CD/SYNCHRO button only in CD Playback Mode.

In Recoding, DPL II doesn't work.

Direct recording

The direct recording mode enables you to start recording with any track on the compact disc.

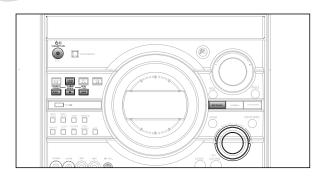


- Switch the system on by pressing STANDBY/ON
- Insert a blank cassette in Tape 2.
- Press the PUSH/EJECT button (▲) to open the cassette door, insert a cassette, and then close the cassette
- Insert the cassette with the safety tabs.
- Press the DVD/CD **4** (►/**||**) button.
- Use the CD selection (I◄◄ ▶►) buttons to select the desired song.
- Press **REC/ PAUSE** button.
- · Recording will begin.
- To stop recording, press button.

- Load a compact disc.
- Press the OPEN/CLOSE button (▲) to open the CD door.

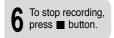
 Insert a CD and press the
- OPEN/CLOSE button (♠) to close the CD door.
- · The cassette tape you want to record on must have the safety tabs intact.
- In Recoding, DPL II doesn't work.

Recording a Radio Program You can record a radio program of your choice. You do not need to adjust the volume, as it has no effect on the recording.



- Switch the system on by pressing STANDBY/ON.
- Insert a blank cassette in Deck 2.
- Select the **TUNER** function by pressing TUNER/BAND.

- Select the radio station that you wish to record by pressing I◄◄/DOWN or UP/ ▶►I button .
- **5** Press(REC/PAUSE) button.
- · REC is displayed in red and recording starts.



Note

In Recoding, DPL II doesn't work



Timer Function

- The timer enables you to switch the system on or off at specific times.
- If you no longer want the system to be switched on or off automatically, you must cancel the timer.
- Before setting the timer, check that the current time is correct. For each step, you have a few seconds to set the required options. If you exceed this time, you must start again.
- Example: You wish to wake up to music every morning.

Switch the system on by pressing STANDBY/ON

Press TIMER/CLOCK until TIMER is displayed.

Press the **ENTER** button.

 ON TIME is displayed (instead of the equalizer symbols) for a few seconds, followed by any switch-on time already set; you can set the timer switch-on time.

Press ◀ or ▶ button to adjust the volume level and press ENTER.

 The source to be selected is displayed.

Set the timer switch-on time.

a. Set the hour by pressing \blacktriangleleft or \blacktriangleright button. b. Press ENTER

. The minutes flash.

c. Set the minutes by pressing \blacktriangleleft or \blacktriangleright

d. Press ENTER.

 OFF TIME is displayed (instead of the equalizer symbols) for a few seconds, followed by any switchoff time already set; you can now set the timer switch-off time.

. TAPE (cassette) : Insert a cassette

a. Set the hour by pressing \blacktriangleleft or \blacktriangleright b. Press ENTER. . The minutes flash

Set the timer

switch-off time.

c. Set the minutes by pressing ◀ or ▶

d. Press ENTER.

• VOL 10 is displayed, where 10 corresponds to the volume already set.

Press ◀ or ▶ button to select the source to be played when the system switches on.

Press **ENTER** to confirm the timer.

Press STANDBY/ON to set the system to standby mode.

• () is displayed to the top right of the time, indicating that the timer

. The system will switch on and off automatically at the required times

• If the timer switch on and off times are identical, the word ERROR is displayed.

USB :Insert a USB.

•You can also use Multi Jog or I◄◀ ▶▶Ibutton to instead ◀ , ▶ button on the remote control in



Canceling the Timer

After having set the timer, it will start automatically as shown by the TIMER indication on the display. If you no longer wish to use the timer, you must cancel it.



To cancel the timer, press TIMER ON/OFF once.

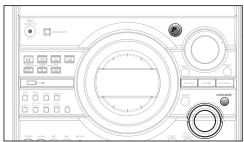
• 🖰 is no longer displayed.

To resume the timer, press TIMER ON/OFF again.

• (3) is displayed again.

You can cancel the timer while the power is on or while the player is in standby.





P.SOUND Function

Your compact system is equipped with the function of Power Sound/Power Surround.

The Power Surround replaces conventional stereo sound with a wider and more true-to-life sound. It creates the feeling of being right at the centre of the music and being surrounded by total music sound.

The function of Power Sound amplifies bass and improves high key or bass twice as much for you to appreciate powerful real sound.

Press **P.SOUND** button until the required option is selected.

Result: Each time the **P SOUND** button is pressed, "P.SOUND,PASS" is selected.



Your mini-compact system is equipped with a preset equalizer that allows you to choose the most appropriate balance between treble and bass frequencies, according to the type of music you are listening to.

Turn **SOUND MODE** on the front panel or Press **SOUND MODE** on the remote control until the required option is selected.

| To obtain a | Select |
|---------------------------------|---------|
| Normal balance (linear) | PASS |
| Balance suitable for pop music | POPS |
| Balance suitable for jazz music | JAZZ |
| Balance suitable for rock music | ROCK |
| Balance suitable for studio | STUDIO |
| Balance suitable for club | CLUB |
| Balance suitable for hall | HALL |
| Balance suitable for movie | MOVIE |
| Ralance suitable for chur ch | CHUR CH |

Note

When using XIPL II (Dolby Pro Logic II) function,

Soun mode button does not work



Sleep Timer Function / Mute Function



• Each time the button is pressed, the selection changes as follows: 90 MIN \to 60 MIN \to 45 MIN \to 30 MIN \to 15 MIN \to OFF.



To confirm the sleep timer setting, press SLEEP button.

The remaining time before the DVD player will shut itself off is displayed.
Pressing the button again changes the sleep time from what you have set earlier.

To cancel the sleep timer, press **SLEEP** button until OFF appears on the display.

Mute Function

This is useful when answering a doorbell or telephone call.

Press **MUTE** button.

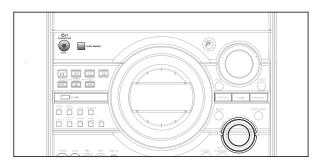
- 'MUTE' appears in the display.
- To turn off mute, press the button again.







DEMO Function / DIMMER Function/ ECO Function



DEMO Function

You can view the various functions available on your system.

Press **DEMO/DIMMER** button.

- The various functions available are listed in turn on the display.
- All these functions are described in detail in this booklet.
 For instructions on how to use them, refer to the appropriate sections.

DIMMER Function

You can adjust the brightness of the display on the main unit so it won't interfere with your movie viewing.

Press **DEMO/DIMMER** button.

 Each time the button is press, the brightness changes as follows: DIMMER ON(Dim) → DIMMER OFF(Bright).

To cancel this function, press **DEMO/DIMMER** again.

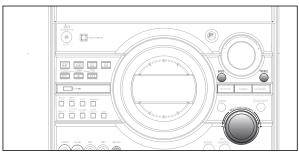
ECO Mode Function

You can save the power consumption while the unit is turned off(on standby).

- $\ \ \, \textbf{.} \ \, \text{To activate the ECO mode,} \\ Press STANDBY/ON/ECO \ \, \text{while the unit is turned off (on standby),} \\ The \ \, \text{display illumination(including the display demonstration) disappears.}$
- While ECO mode is activated, the display demonstration is canceled temporarily.



Bass/Treble Level (USER EQ) Function



BASS Level Function

BASS function stresses low tones providing thudding sound effects.

Turn BASS knob on the front paneland use multi jog to select from BASS -08 to BASS +08, total 9 steps.

You can select the level of low tones you desire.

TREBLE Level Function

Treble function stresses high tones providing thudding sound effects.

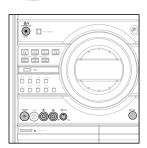
Turn **Treble** knob on the front panel use multi jog to select from **TRE** -08 to **TRE** +08, total 9 steps.

You can select the level of high tones you desire.



Connecting Headphones/Microphone(option)

You can connect a set of headphones to your micro component system so that you can listen to music or radio programmers without disturbing other people in the room. The earphones must have a 3.5ø jack or an appropriate adapter.

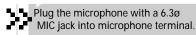




Connect the headphones to the PHONES jack on the front panel.

· The loudspeakers are no longer used to output the sound.

· Prolonged use of headphones at a high volume may damage your hearing.



- · Connect the Microphone
- . Turn the MIC LEVEL knob to adjust the MIC volume
- Press the ECHO button to select ECHO1,ECHO2, and ECHO
- · During using the microphone ,you can press the REC/PAUSE button to record your favorite

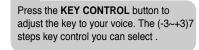


ENDIFICE.

Key Control

You can easily do song search on screen without viewing the song list book.

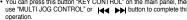




Result: Each time the **KEY CONTROL** #, b button is pressed, the following appears on the TV screen:

- b : Low-Pitched
- Each time # button is pressed, the key is increased, and each time b button is pressed, the key is decreased
- The funtion only can available for CD/VCD in stop mode when microphone is connect,it can not available for DVD and MP3.

 The function for "key control" can not disappear immediately if you unplugged MIC.
- You can press this button "KEY CONTROL" on the main panel, then use "MULTI JOG CONTROL" or





Cautions on Handling and Storing Discs

Small scratches on the disc may reduce sound and picture quality or cause breaks in playback. Be especially careful not to scratch discs when handling them.

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.

Handling and Storing Discs



When you get fingerprints or dirt on the disc, clean it with a mild detergent diluted in water and wipe with a soft cloth.

. When cleaning, wipe gently from the inside to the outside of the disc.



 Condensation may form if warm air comes into contact with cold parts inside the player. When condensation forms inside the player, the player may not operate correctly. If this occurs, remove the disc and let the player stand for 1 or 2 hours with the power on.

Precautions When Using Audio Cassettes —

- . Check that the tape in the cassette is sufficiently taut.
- To prevent erasing a cassette that you wish to keep, remove the safety tab on the upper edge of the cassette. To record a cassette, where the tab has been broken, simply cover the opening with adhesive
- When you have finished playing a cassette, always put it back in its case.
- Store your cassettes in a clean place, out of direct sunlight, where they will not be exposed to high
- Avoid using 120-minute cassettes as they place unnecessary strain on the tape mechanism.







Key Control function will not work during the Dolby Pro Logic II.



Before Calling for Service

Refer to the chart below when this unit does not function properly. If the problem you are experiencing is not listed below or if the instruction below does not help, turn off the unit, disconnect the power cord, and contact the nearest authorized dealer or Samsung Electronics Service Center.

| Symptom | Check/Remedy |
|--|---|
| Disc tray does not open. | Is the power cord plugged securely into the outlet? Turn off the power and then turn it back on. |
| Playback does not start. | Check the region number of the DVD. DVD discs purchased from abroad may not be playable. CD-ROMs and DVD-ROMs cannot be played on this DVD player. Make sure that the rating level is correct. |
| The remote control does not work. | Is the remote control being operated within its operation range of angle and distance? Are the batteries exhausted? |
| Playback does not start immediately when the Play/Pause button is pressed. | Are you using a deformed disc or a disc with scratches on the surface? Wipe the disc clean. |
| Sound is not produced. | No sound is heard during fast playback, slow playback, and step motion playback. Are the speakers connected properly? Is the speaker setup correctly customized? Is the disc severely damaged? |
| Picture does not appear, sound is not produced, or the disc tray opens 2 to 5 seconds later. | Was the DVD player suddenly moved from a cold place to a warm
one? When condensation forms inside the player, remove the disc
and let the player stand for 1 or 2 hours with the power on. (You
can use the player again after condensation disappears.) |
| Disc is rotating but no picture is produced. Picture quality is poor and picture is shaking. | Is the TV power on? Are the video cables connected properly? Is the disc dirty or damaged? A poorly manufactured disc may not be playable. |

| Symptom | Check/Remedy |
|---|--|
| Audio language and subtitles do not work. | Audio language and subtitles will not work for DVDs not containing
them. And depending on the disc, they may work differently. |
| Menu screen does not appear even when the menu function is selected. | Are you using a disc that does not contain menus? |
| Aspect ratio cannot be changed. | You can play 16:9 DVDs in 16:9 WIDE mode, 4:3 LETTER BOX
mode, or 4:3 PAN SCAN mode, but 4:3 DVDs can be seen in 4:3
ratio only. Refer to the DVD disc jacket and then select the
appropriate function. |
| The tape does not start | The TAPE function has not been selected. |
| playing | The cassette has not been inserted correctly. |
| | The cassette player has not been closed. |
| | The tape is either slack or broken. |
| The volume falls off | The audio heads are dirty. |
| The cassette is not erased correctly | The rollers or drive capstans are dirty. |
| There is excessive wow and flutter | The tape is worn. |
| Can't receive radio broadcast. | Is the antenna connected properly? If the antenna's input signal is weak, install an external FM antenna in an area with good reception. |
| The main unit is not working. (Example: The power goes out or strange noise is heard.) | Turn off the power and hold the STOP button on the main unit for longer than 5 seconds. |
| The DVD player is not working normally. | Using the RESET function will erase all stored settings. Do not use this unless necessary. |
| The password for rating level has been forgotten. | While the player is in "NO DISC" mode, hold the main unit's TUNING MODE/ button for longer than 5 seconds. "INITIAL" appears on the display and all settings will return to the default values. Press the POWER button. Using the RESET function will erase all stored settings. Do not use this unless necessary. |



Disc Recording Format

- Depending on the disc recording device (CD-Recorder or PC) and the condition of the disc, some CD-R discs may not be playable.
- Use a 650MB/74 minute CD-R. Avoid CD-R media, as they may not be playable.
- If possible, do not use CD-RW (Rewritable) media, as they may not be playable.
 Only the CD-Rs that are properly "closed" can be fully played. If the session is closed but the disc is left open, you may not be able to fully play the disc.

CD-R MP3 Discs

- Only CD-R discs with MP3 files in ISO 9660 or Joliet format can be played.
 MP3 file names should be 8 characters or less in length and contain no blank spaces or special characters (. / = +).
- If the name of a file is in Korean, the name will be displayed on the TV screen in Korean and * will be shown in the
- Use discs recorded with a compression/decompression data rate greater than 128Kbps.
- Only files with the ".mp3" and ".MP3" extensions can be played.
 Only a consecutively written Multisession disc can be played. If there is a blank segment in the Multisession disc, the
- Only a consecurity whiten invitalession last can be played. In the last a data segment in the whitesession last disc can be played only up to the blank segment.

 If the disc is not closed, it will take longer to begin playback and not all of the recorded files may be played.

 For files encoded in Variable Bit Rate (VBR) format, i.e. files encoded in both low bit rate and high bit rate (e.g., 32Kbps ~ 320Kbps), the sound may skip during playback.

 If more than 500 tracks are recorded on a single CD, a maximum of 500 tracks can be played.
- If more than 300 folders are recorded on a single CD, a maximum of 300 folders can be played.

What is MP3?

MP3 is short for MPEG-1 Audio Layer 3 and MPEG is an acronym for Moving Pictures Experts
Group. MP3 is a file format with compression ratio of 1:12 (128 Kbps*) That is, you can use MP3
format to record about 12 times the usual amount of data on a regular CD.

CD-R JPEG Discs

- Only files with the "jpeg" and "JPEG" extensions can be played.
 If the disc is not closed, it will take longer to start playing and not all of the recorded files may be played.
- Only CD-R discs with JPEG files in ISO 9660 or Joliet format can be played.
 JPEG file names should be 8 characters or less in length and contain no blank spaces or special characters (. / = +).
- Only a consecutively written multisession disc can be played. If there is a blank segment in the multisession disc, the
- disc can be played only up to the blank segment.

 A maximum of 9,999 images can be stored on a single CD.
- When playing a Kodak/Fuji Picture CD, only the JPEG files in the picture folder can be played.
 Picture discs other than Kodak/Fuji Picture CDs may take longer to start playing or may not play at all.



| ANGLE | Recorded onto some DVD discs are scenes which have been simultaneously shot from a number of different angles (the same scene is shot from the front, from the left , from the right , etc.). With such discs, the Angle button can be used to change the angle of view for specific scenes. |
|------------------------------|---|
| CHAPTER
NUMBER | These numbers are recorded on DVD discs. A Title is subdivided into many sections, each of which is numbered, and specific parts of the video can be searched quickly using these numbers. |
| DVD | A high-density optical disc on which high-quality pictures and sound have been recorded by means of digital signals. Incorporating a new video compression technology (MPEG-2) and high-density recording technology, a DVD disc comprises two 0.6 mm thick discs bonded together. |
| PCM | An acronym for Pulse Code Modulation - another name for digital audio. |
| PBC
(PLAYBACK
CONTROL) | This is recorded on a video CD (version 2.0). Selected scenes or information can be chosen from the menu displayed on the TV monitor. |
| REGION NUMBER | Both the DVD player and DVD discs are encoded with a region number. If the region number on the DVD disc does not correspond to the region number of the DVD player, the player cannot play the disc. |
| SUBTITLES | Translated appearing at the bottom of the screen. A DVD disc can contain up to 32 subtitle languages. |
| TITLE NUMBER | These numbers are recorded on DVD discs. When a disc contains two or more movies, these movies are numbered as Title 1, Title 2, etc. |
| TRACK NUMBER | These numbers are assigned to the tracks which are recorded on video and audio CDs. They enable specific tracks to be located quickly. |
| VIDEO CD | Contains recordings of pictures and sound whose quality is roughly comparable to that of video tape. This player also supports video CDs with playback control (version 2.0). |
| DI GIT A L | 5.1 (or 6) Channel Digital Surround sound reproduced from DVDs and LDs recorded as a digital signals (with The digital Surround). With better sound quality, dynamic range, and directionality than traditional Dolby surround technology, you can enjoy dynamic, realistic sound. |



| G | Power consumption | 80 W | | | | | |
|-----------------|-----------------------------|-----------------------|-------------------|--------------------|--------------------|--|--|
| E
N | Weight | 6Kg | | | | | |
| E | Dimensions (W x H x D) | 270 x 332 x 360mm | | | | | |
| R | Operating Temperature Range | +5°C~+35°C | | | | | |
| Ĺ | Operating Humidity Range | 10%~75% | | | | | |
| _ T | Usable Sensitivity | 12dB | | | | | |
| F N
M E
R | S/N Ratio | 55dB | | | | | |
| " Ē | Distortion | 0.8% | | | | | |
| I | Usable Sensitivity | 60dB | | | | | |
| A N E | S/N Ratio | 35dB | | | | | |
| ‴ k̄ | Distortion | 2% | | | | | |
| v O | Composite Video | 1.0Vp-p | (75Ω load) | | | | |
| įΨ | | Y:1.0V | o-p(75Ω load) | | | | |
| DEO | Component Video | Pr:0.70Vp-p(75Ω load) | | | | | |
| 0 Y | | Pb:0.70Vp-p(75Ω load) | | | | | |
| Α | Front speaker output | 200W x 2(3Ω) | | | | | |
| M | Center speaker output | 100W(6Ω) | | | | | |
| P | Rear speaker output | 50W x 2(3Ω) | | | | | |
| L | Subwoofer speaker output | 200W(3Ω) | | | | | |
| l
F | Frequency range | | 20Hz~20kHz | | | | |
| Ī | S/N Ratio | 70dB | | | | | |
| Ė | Channel separation | 55dB | | | | | |
| R | Input sensitivity | (AUX)400mV | | | | | |
| | Speaker system | 5.1ch speaker system | | | | | |
| S | Operator system | | | Center speaker | Rear speaker | | |
| P | Impedance | 3Ω x 2 | 3Ω | 6Ω | 3ΩX2 | | |
| E. | Frequency range | 150Hz~20kHz | | 150Hz~20KHz | 150Hz~20KHz | | |
| Α | Output sound pressure level | 87dB/W/M | 87dB/W/M | 87dB/W/M | 87dB/W/M | | |
| K
E | Rated input | 200W | 200W | 100W | 50W | | |
| E
R | Maximum input | 400W | 400W | 200W | 100W | | |
| | Dimensions (W x H x D) | 220 x 450 x 295 mm | 260x 330 x 356 mm | 330 x 120 x 145 mm | 175 x 450 x 200 mm | | |
| | Weights | 6.4 Kg | 6.7Kg | 1.85 Kg | 2.8 Kg | | |

USB Feature Supported Player

Digital Camera

| Digital Gamera | | | | |
|--------------------|-----------|----------------|--|--|
| Product | Company | Type | | |
| PowerShot A70 | Canon | Digital Camera | | |
| A90 | Canon | Digital Camera | | |
| IXY40 | Canon | Digital Camera | | |
| IXY50 | Canon | Digital Camera | | |
| A90 | Canon | Digital Camera | | |
| A95 | Canon | Digital Camera | | |
| G6 | Canon | Digital Camera | | |
| S60 | Canon | Digital Camera | | |
| Exilom Z-40 | Casio | Digital Camera | | |
| QV-R51 | Casio | Digital Camera | | |
| Finepix-A340 | Fuji | Digital Camera | | |
| Finepix-F810 | Fuji | Digital Camera | | |
| Finepix-F610 | Fuji | Digital Camera | | |
| Finepix-f450 | Fuji | Digital Camera | | |
| Finepix S7000 | Fuji | Digital Camera | | |
| Finepix A310 | Fuji | Digital Camera | | |
| Easy Save CX-4300 | Kodak | Digital Camera | | |
| KD-310Z | Konica | Digital Camera | | |
| Finecam SL300R | Kyocera | Digital Camera | | |
| Finecam SL400R | Kyocera | Digital Camera | | |
| Finecam S5R | Kyocera | Digital Camera | | |
| Finecam Xt | Kyocera | Digital Camera | | |
| Dimage-Z1 | Minolta | Digital Camera | | |
| Dimage Z1 | Minolta | Digital Camera | | |
| Dimage X21 | Minolta | Digital Camera | | |
| Coolpix4200 | NIKON | Digital Camera | | |
| Coolpix4300 | NIKON | Digital Camera | | |
| Coolpix 2200 | Nikon | Digital Camera | | |
| Coolpix 3500 | Nikon | Digital Camera | | |
| Coolpix 3700 | Nikon | Digital Camera | | |
| Coolpix 4100 | Nikon | Digital Camera | | |
| Coolpix 5200 | Nikon | Digital Camera | | |
| stylus 410 digital | Olympus | Digital Camera | | |
| 300-digital | Olympus | Digital Camera | | |
| u300 | Olympus | Digital Camera | | |
| X-350 | Olympus | Digital Camera | | |
| C-760 | Olympus | Digital Camera | | |
| C-5060 | Olympus | Digital Camera | | |
| X1 | Olympus | Digital Camera | | |
| u-mini | Olympus | Digital Camera | | |
| Lumix-FZ20 | Panasonic | Digital Camera | | |
| DMC-FX7GD | Panasonic | Digital Camera | | |

| Product | Company | Туре | |
|---------------------|-----------|----------------|--|
| umix LC33 | Panasonic | Digital Camera | |
| UMIX DMC-F1 | Panasonic | Digital Camera | |
| Optio-S40 | Pentax | Digital Camera | |
| Optio-S50 | Pentax | Digital Camera | |
| Optio 33LF | Pentax | Digital Camera | |
| Optio 33L | Pentax | Digital Camera | |
| Optio X | Pentax | Digital Camera | |
| ¥œ | Pentax | Digital Camera | |
| Optio MX | Pentax | Digital Camera | |
| Nigimax-420 | Samsung | Digital Camera | |
| igimax-400 | Samsung | Digital Camera | |
| enox UX4 | Samsung | Digital Camera | |
| PC-AZ1 | Sanyo | Digital Camera | |
| lot recognize in PC | | | |
| ISC-F828 | Sony | Digital Camera | |
| ISC-P73 | Sony | Digital Camera | |
| ISC-T1 | Sony | Digital Camera | |
| ISC-F88 | Sony | Digital Camera | |
| ISC-M1 | Sony | Digital Camera | |
| ISC-W1 | Sony | Digital Camera | |
| ISC-T3 | Sony | Digital Camera | |
| iora PDR-T30 | Toshiba | Digital Camera | |
| Coolpix 5900 | Nikon | Digital Camera | |
| Coolpix S1 | Nikon | Digital Camera | |
| Coolpix 7600 | Nikon | Digital Camera | |
| MC-FX7 | Panasonic | Digital Camera | |
| MC-LS1 | Panasonic | Digital Camera | |
| MC-LZ2 | Panasonic | Digital Camera | |
| KY-Digital600 | Canon | Digital Camera | |
| :5i | Pentax | Digital Camera | |
| Dimage Xt | Minolta | Digital Camera | |
| Z-1 | Olympus | Digital Camera | |
| ISC-W5 | Sony | Digital Camera | |

USB Feature Supported Player

USB Flash Disk

| Product | Company | Туре |
|------------------|----------|-----------------------------|
| Cruzer Micro | SanDisk | USB2.0 USB Flash Drive 128M |
| Cruzer Mini | SanDisk | USB2.0 128M |
| Cruzer Mini | SanDisk | USB2.0 256M |
| SONY Micro Vault | SONY | USB2.0 64MB |
| FLEX DRIVE | serotech | USB2.0 32MB |
| AnyDrive | A.L tech | USB2.0 128MB |
| XTICK | LG | USB2.0 128M |
| Micro Mini | IOMEGA | USB2.0 128M |
| iFlash | Imation | USB2.0 64M |
| LG | XTICK(M) | USB2.0 64M |
| RIDATA | EZDrive | USB2.0 64M |

Multi Card Reader

| UNICORN Unicorn USB 2.0 7 IN 1 CARD READER UC-801R USB 2.0 Card Reader Billionton(Taiwan) USB 2.0 Card Reader for SDMMCRS-MCID | Product | Company | Туре |
|---|--------------------|--------------------|---|
| USB2 0 Card Reader Rillionton/Taiwan) USB 20 Card Reader for SDMMCRS.MMCR.in.1 | UNICORN | Unicom | USB 2.0 7 IN 1 CARD READER UC-601R |
| CODE CON TRACTOR MINOR TO THE PROPERTY OF THE | USB2.0 Card Reader | Billionton(Taiwan) | USB 2.0 Card Reader for SD/MMC/RS-MMC(3-in-1) |

MP3 Player

| Product | Company | Type | |
|----------------------|----------------|---------------------|--|
| Creative MuVo NX128M | Creative | 128 MB MP3 Player | |
| Iriver H320 | Iriver | 20G HDD MP3 player | |
| YEPP YH-920 | SAMUSUNG | 20G HDD MP3 PLAYER | |
| YEPP YH-925 | samusung | 20G HDD MP3 player | |
| I-pod | apple | HDD MP3 player(40G) | |
| I-pod mini | Apple | HDD MP3 Player(20G) | |
| YEPP (YP-T7) | SAMSUNG | MP3 PLAYER | |
| YEPP(YP-MT6) | SAMSUNG | MP3 PLAYER | |
| YEPP(YP-T6) | SAMSUNG | MP3 PLAYER | |
| YEPP(YP-53) | SAMSUNG | MP3 PLAYER | |
| YEPP(YP-ST5) | SAMSUNG | MP3 PLAYER | |
| YEPP(YP-T5) | SAMSUNG | MP3 PLAYER | |
| YEPP(YP-60) | SAMSUNG | MP3 PLAYER | |
| YEPP(YP-780) | SAMSUNG | MP3 PLAYER | |
| YEPP(YP-35) | SAMSUNG | MP3 PLAYER | |
| YEPP(YP-55) | samsung | MP3 Player | |
| iAUDIO U2 | COWON(Korea) | MP3 Player | |
| iAUDIO G3 | COWON(Korea) | MP3 Player | |
| iAudio M3 | COWON(Korea) | HDD MP3 player | |
| SI-M500L | SHARP(Japan) | 256MB MP3Player | |
| H10 | IRIVER(Korea) | MP3Player | |
| YEPP YP-T5 VB | Samsung(Korea) | MP3Player | |
| YEPP YP-53 | Samsung(Korea) | 256MB MP3Player | |

USB External HDD

| Product | Company | Туре | |
|--------------|----------|------------------------|--|
| CUTIE | serotech | POCKET HARD DISK DRIVE | |
| MOMOBAY UX-2 | DVICO | USB2.0 | |

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