

# playback

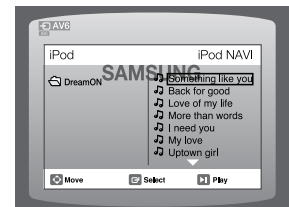
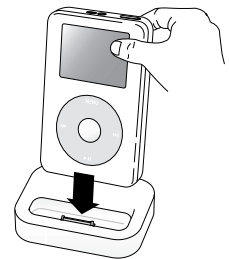
## USING AN iPod

You can enjoy playback of your iPod using the supplied remote control.

### Listening to Music (A IPOD function)

You can play music files stored in the iPod player by connecting it to the home theater system.

1. Connect the iPod dock connector to the iPod jack on the DVD home theater.
2. Place the iPod in the Dock.
  - Your iPod is automatically turned on.
3. Press the **PORT** button on the remote control to select **OSD IPOD** mode.
  - If the iPod player is connected to the home theater system, each time you press the the **PORT** button, it will be toggled in the order of **USB** → **OSD IPOD** → **V/P IPOD**.
4. Press the **▲**, **▼** buttons on the remote control to select **Music** and press the **ENTER** button.
  - The **Music** categories appear.
5. Press the **▲**, **▼** buttons desired category and press the **ENTER** button.
  - The music files appear.
6. Press the **▲**, **▼** buttons to select the file to play and press the **ENTER** button.
  - The music will start with a new screen which shows the song title, time, artist, and progress bar.
7. You can use the remote control or main unit to control simple playback functions such as **PLAY**, **PAUSE**, **STOP**, **⏮**, **⏭**, **⏪**, **⏩** and **REPEAT**.
  - Press the **RETURN** button to return to the previous menu.



- See page 31 for compatible iPods.  
Compatibility depends on the software version of your iPod.  
This product only supports playing audio from your iPod.

### Music categories

File information including the artist name, album name, music title and genre will be displayed according to the ID3 Tag information on the appropriate music file.

**Now Playing** : Plays a recently played file or moves to the playback screen of the current file.

**Artists** : To play by artist.

**Songs** : To play in numeric or alphabetical order

**Playlists** : To play by Playlist.

**Albums** : To play by album.

**Genres** : To play by genre.

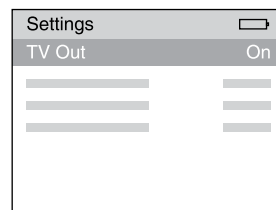
**Composer** : To play by composer.

- The category list may differ, depending on the iPod model.
- **What is an ID3 Tag?**  
This is what is attached to an MP3 to carry information relevant to the file such as the title, artist, album, year, genre and a comment field.

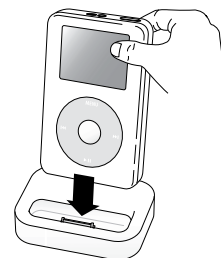
## Watching a Movie (V/P IPOD function)

You can play video files stored in the iPod player by connecting it to the home theater system.

1. Connect the iPod dock connector to the iPod jack on the DVD home theater.
2. In the iPod screen, move to **Videos > Settings** and set the **TV Out** option to **On**.
3. Place the iPod in the Dock.
4. Press the **PORT** button on the remote control to select **V/P IPOD** mode.
  - If the iPod player is connected to the home theater system, each time you press the the PORT button, it will be toggled in the order of **USB → OSD IPOD → V/P IPOD**.
5. Set the AV IN option of the TV connected to the home theater system to COMPOSITE.

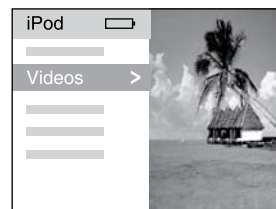


<iPod Screen>



Follow the iPod onscreen guide through the following steps.

6. Press the **▲, ▼** buttons on the remote control to select **Videos** and press the **ENTER** button.
7. Press the **▲, ▼** buttons on the remote control to select **Movies** and press the **ENTER** button.
8. Press the **▲, ▼** buttons to select the file to play and press the **ENTER** button.
  - Video files of the iPod player will be played on the TV screen.
9. You can use the remote control or main unit to control simple playback functions such as **PLAY, PAUSE, STOP, ⏮, ⏭** and **⏪, ⏩**.
  - If you press the **PREV** button within 3 seconds after the playback, the player will stop playing and return to the list screen. If you press the **PREV** button 3 seconds or later after the playback, the player will move to the start screen of the current file.
  - Press the **NEXT** button to stop playing and return to the list screen.
  - Press the **RETURN** button to return to the previous menu.



<iPod Screen>



- See page 28 for compatible iPods. Compatibility depends on the software version of your iPod. This product only supports playing audio from your iPod.
- When the current file is played to the end, the next file will not be played automatically. To play the next file, select a file to play in the list screen of the iPod player.
- No other screen than the playback one will appear on the TV screen. Check other screens on the iPod player.

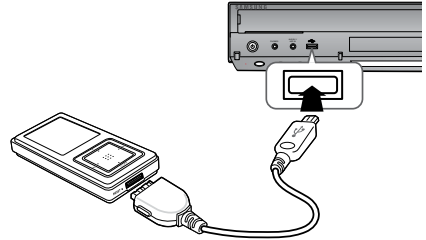


- If the TV connected to the home theater system supports HDMI CEC, press the **AUX** button on the remote control to switch the mode to DIGITAL IN if you want to watch TV while an iPod movie is played.

## PLAYING MEDIA FILES USING THE USB HOST FEATURE

You can enjoy media files such as pictures, movies and music saved on an MP3 player, USB memory stick or digital camera in high quality video with 5.1 channel Home Theater sound by connecting the storage device to the USB port of the Home Theater.

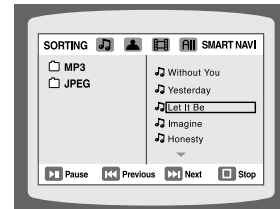
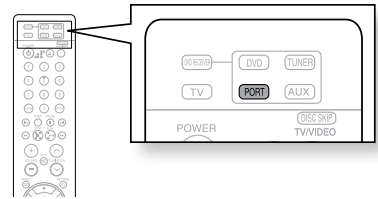
1. Connect the USB device to the USB port on the front of the unit.
2. Press the **FUNCTION** button on the DVD Player or the **PORT** button on the remote control to select the USB mode.
  - **USB** appears on the display screen and then disappears.
  - The USB MENU screen appears on the TV screen and the saved file is played.
3. To stop playback, press the **STOP** (■) button.



### Safe USB Removal

To prevent damage to the memory stored in the USB device, perform safe removal before disconnecting the USB cable.

- Press the **STOP** (■) button twice in a row. The display will show **REMOVE USB**.
- Remove the USB cable.

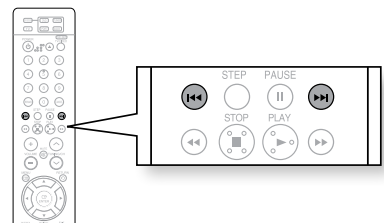


- To listen to your music files with 5.1 channel home theater sound, you must set the Dolby Pro Logic II mode to Matrix. (See page 63)
- In USB mode, you are not able to change the resolution or use the SETUP menu if there is no USB device connected to the USB port.

## Skip Forward/Back

During playback, press the ◀▶ button.

- When there is more than one file and you press the ▶▶ button, the next file is selected.
- When there is more than one file and you press the ◀◀ button, the previous file is selected.

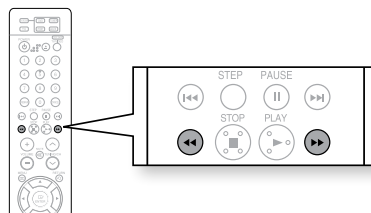


## Fast playback

During playback, press the ◀▶ button.

- 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 disc in Windows (2000 or later) without additional driver installation.)
2. MP3 Player: HDD and flash type MP3 players.
3. Digital camera: Cameras that support USB Mass Storage v1.0.
  - Cameras that operate as a removable disc in Windows (2000 or later) without additional driver installation.
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.
6. If you use a USB extension cable, the USB device might not be recognized.

## Supported Formats

Format	File name	File extension	Bit rate	Version	Pixel	Sampling Frequency
Still Picture	JPG	JPG .JPEG	–	–	640x480	–
Music	MP3	.MP3	80~384kbps	–	–	44.1kHz
	WMA	.WMA	56~128kbps	V8	–	44.1kHz
Movie	WMV	.WMV	4Mbps	V1,V2,V3,V7	720x480	44.1KHz~48KHz
	DivX	.AVI,.ASF	4Mbps	DivX3.11~ DivX5.1, XviD	720x480	44.1KHz~48KHz

- CBI (Control/Bulk/Interrupt) is not supported.
- Digital Cameras that use PTP protocol or require additional program installation when connected to a PC are not supported.
- A device using NTFS file system is not supported. (The system supports only the FAT file system and will not play a movie larger than 1 GB in USB mode.)
- Some MP3 players, when connected to this product, may not operate depending on the sector size of their file system.
- The USB host function is not supported if a product that transfers media files by its manufacturer-specific program is connected.
- Does not operate with Janus enabled MTP (Media Transfer Protocol) devices.
- **The USB host function of this product does not support all USB devices. For information on supported devices, see page 73.**

# system setup

For your convenience, you can set this DVD Home Cinema's features for the best use in your home environment.

## SETTING THE LANGUAGE

OSD(On-Screen Display) language is set to English by default.

1. In Stop mode, press the **MENU** button.
  2. Press the Cursor **▼** button to move to **Setup** and then press the **ENTER** button.
  3. Select **Language** and then press the **ENTER** button.
  4. Press the Cursor **▲,▼** button to select **OSD Language** and then press the **ENTER** button.
  5. Press the Cursor **▲,▼** button to select the desired language and then press the **ENTER** button.
    - Once the setup is complete, the OSD will be English if English has been selected as language.
- Press the **RETURN** button to return to the previous level.  
➤ Press the **EXIT** button to exit the setup screen.



- **OSD LANGUAGE** : Selecting the OSD Language
  - **AUDIO** : Selecting the Audio Language (recorded on the disc)
  - **SUBTITLE** : Selecting the Subtitle Language (recorded on the disc)
  - **DISC MENU** : 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.



- **OTHERS** : To select another language, select OTHERS and enter the language code of your country (see page 72). AUDIO, SUBTITLE and DISC MENU languages can be selected.



## SETTING THE HDMI VIDEO OUT MODE

You can select <RGB> or <Y Cb Cr> mode.

1. In Stop mode, press the **MENU** button.
  2. Press the Cursor **▼** button to move to **Setup** and then press the **ENTER** button.
  3. Press the Cursor **▼** button to move to **HDMI VIDEO OUT** and then press the **ENTER** button.
  4. Press the Cursor **▲,▼** button to select the desired item and then press the **ENTER** button.
    - Once the setup is complete, you will be taken to the previous screen.
- Press the **RETURN** button to return to the previous level.  
➤ Press the **EXIT** button to exit the setup screen.



## SETTING TV SCREEN TYPE

Depending on your TV type (Widescreen or conventional 4:3), you can select the TV's aspect ratio.

1. In Stop mode, press the **MENU** button.
  2. Press the Cursor **▼** button to move to **Setup** and then press the **ENTER** button.
  3. Press the Cursor **▼** button to move to **TV DISPLAY** and then press the **ENTER** button.
  4. Press the Cursor **▲,▼** button to select the desired item and then press the **ENTER** button.
    - Once the setup is complete, you will be taken to the previous screen.
- Press the **RETURN** button to return to the previous level.  
 ➤ Press the **EXIT** button to exit the setup screen.



### Adjusting the TV Aspect Ratio (Screen Size)

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

For a standard TV, select either **4:3PS** or **4:3LB** option according to personal preference. Select **WIDE/HDTV** if you have a widescreen TV.

#### 4:3PS (4:3 Pan&Scan)

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).



#### 4:3LB (4:3 Letterbox)

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.



#### WIDE/HDTV

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

- You can enjoy the widescreen aspect.



- If a DVD is in the 4:3 ratio, you cannot view it in widescreen.
- 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.
- When using HDMI, the screen is automatically converted to Wide mode.

# system setup

## SETTING PARENTAL CONTROLS (RATING LEVEL)

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

1. In Stop mode, press the **MENU** button.
2. Press the Cursor **▼** button to move to **Setup** and then press the **ENTER** button.
3. Press the Cursor **▼** button to move to **PARENTAL** and then press the **ENTER** button.
4. Press the Cursor **▲,▼** button to select the desired rating level and then press the **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.
5. Enter the password and then press the **ENTER** button.
  - The password is set to "7890" by default.
  - Once the setup is complete, you will be taken to the previous screen.



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


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

## SETTING THE PASSWORD

You can set the password for the Parental (rating level) setting.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor **▼** button to move to **Setup** and then press the **ENTER** button.
3. Press the Cursor **▼** button to move to **PASSWORD** and then press the **ENTER** button.
4. Press the **ENTER** button.
5. Enter the password and then press the **ENTER** button.
  - Enter the old password, a new password, and confirm new password.
  - The setting is complete.



 The password is set to "7890" by default.

## If you have forgotten the rating level password, do the following

- While the player is in No Disc mode, hold the DVD Players **STOP** (■) 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.

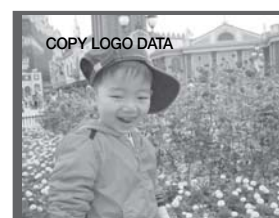
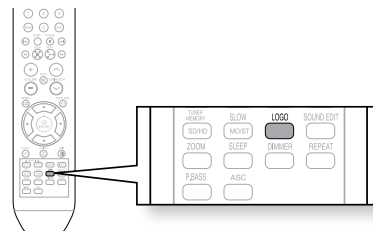
Do not use this unless necessary.

## SETTING THE WALLPAPER



While watching a DVD or JPEG CD, you can set the image you like as background wallpaper.

1. During playback, press the **PAUSE** button when an image you like appears.
2. Press the **LOGO** button.
  - **COPY LOGO DATA** will be displayed on the TV screen.
3. The power will turn off and then back on.
  - The selected wallpaper will be displayed.
  - You can select up to 3 wallpaper settings.



- This function will not work when the HDMI output is 720p, 1080i or 1080p.

## TO SELECT ONE OF THE 3 WALLPAPER SETTINGS YOU'VE MADE

1. In Stop mode, press the **MENU** button.
2. Press the Cursor **▼** button to move to **Setup** and then press the **ENTER** button.
3. Press the Cursor **▼** button to move to **LOGO** and then press the **ENTER** button.
4. Press the Cursor **▲,▼** button to select the desired **USER**, and then press the **ENTER** button.
  - This selects one of the 3 wallpaper screens.
5. Press the **EXIT** button to exit the setup screen.

- **ORIGINAL** : Select this to set the Samsung Logo image as your wallpaper.
- **USER** : Select this to set the desired image as your wallpaper.

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





# system setup

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## DviX (R) Registration

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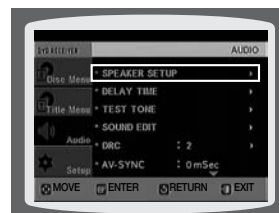
Please use the Registration code to register this player with the DivX (R) video on demand format.  
To learn more, go to [www.divx.com/vod](http://www.divx.com/vod).

## SETTING THE SPEAKER MODE


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Signal outputs and frequency responses from the speakers will automatically be adjusted according to your speaker configuration and whether certain speakers are used or not.

1. In Stop mode, press the **MENU** button.
  2. Press the Cursor **▼** button to move to **Audio** and then press the **ENTER** button.
  3. In the **SPEAKER SETUP**, press the **ENTER** button again.
  4. Press the Cursor **▲, ▼, ◀, ▶** button to move to the desired speaker and then press the **ENTER** button.
    - For C, SL, and SR, each time the button is pressed, the mode switches alternately as follows : SMALL → NONE.
    - For L and R, the mode is set to SMALL.
- **SMALL** : Select this when using the speakers.
  - **NONE** : Select this when no speaker is connected.
- Press the **RETURN** button to return to the previous level.  
➤ Press the **EXIT** button to exit the setup screen.



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 ■ Depending on PRO LOGIC and STEREO settings, the speaker mode may vary (see page 63).

## SETTING THE DELAY TIME

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.

1. In Stop mode, press the **MENU** button.
  2. Press the Cursor **▼** button to move to **Audio** and then press the **ENTER** button.
  3. Press the Cursor **▼** button to move to **DELAY TIME** and then press the **ENTER** button.
  4. Press the Cursor **▲,▼,◀,▶** button to move to the desired speaker and then press the **ENTER** button.
  5. Press the Cursor **◀,▶** to set the Delay time.
    - You can set the delay time for C between 00 and 05mSEC and for SL and SR between 00 and 15mSEC.
- Press the **RETURN** button to return to the previous level.
- Press the **EXIT** button to exit the setup screen.

### 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 and Rear Speakers.

#### Setting CENTER SPEAKER

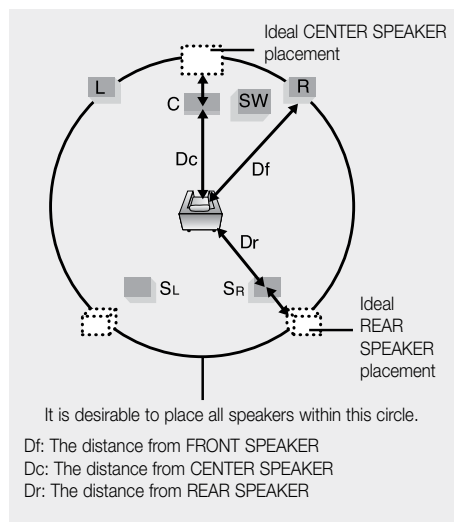
If the distance of Dc is equal to or longer than the distance of Df in the figure, set the mode as 0ms. Otherwise, change the setting according to the table.

Distance between Df and Dc	0.00 inch	1 feet, 1.39 inches	2 feet, 2.77 inches	3 feet, 5.73 inches	4 feet, 7.12 inches	5 feet, 9.29 inches
Delay Time	0 ms	1 ms	2 ms	3 ms	4 ms	5 ms

#### Setting REAR SPEAKER

If the distance of Dc is equal to or longer than the distance of Dr in the figure, set the mode as 0ms. Otherwise, change the setting according to the table.

Distance between Df and Dc	0.00 inch	3 feet, 5.73 inches	6 feet, 11.7 inches	10 feet, 4.80 inches	13 feet, 10.54 inches	17 feet, 4.27 inches
Delay Time	0 ms	3 ms	6 ms	9 ms	12 ms	15 ms



- With **PL II** (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.
- The Center channel is only adjustable on 5.1 channel discs.

# system setup

## SETTING THE TEST TONE

Use the Test Tone feature to check the speaker connections.

1. In Stop mode, press the **MENU** button.
  2. Press the Cursor **▼** button to move to **Audio** and then press the **ENTER** button.
  3. Press the Cursor **▼** button to move to **TEST TONE** and then press the **ENTER** button.
    - The test tone will be sent to **L → C → R → SR → SL → SW** in order.  
If the **ENTER** button is pressed again at this time, the test tone will stop.
- Press the **RETURN** button to return to the previous level.
- Press the **EXIT** button to exit the setup screen.



## SETTING THE AUDIO

You can adjust the balance and level for each speaker.

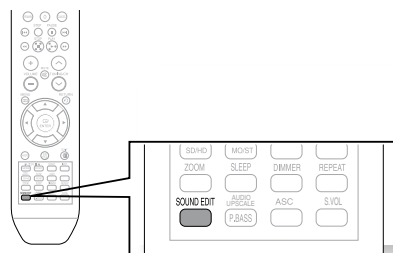
1. In Stop mode, press the **MENU** button.
  2. Press the Cursor **▼** button to move to **Audio** and then press the **ENTER** button.
  3. Press the Cursor **▼** button to move to **SOUND EDIT** and then press the **ENTER** button.
  4. Press the Cursor **▲,▼** button to select and adjust the desired item. Press the Cursor **◀,▶** button to adjust the settings.
- Press the **RETURN** button to return to the previous level.
- Press the **EXIT** button to exit the setup screen.



## SETTING THE AUDIO

### Manually Adjusting the Speaker Volume and Balance with the SOUND EDIT Button.

Press the **SOUND EDIT** button and then press the Cursor **◀▶** button.



#### Adjusting Front/Rear Speaker Balance

- You can select between 00, -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.

## SETTING THE DRC (DYNAMIC RANGE COMPRESSION)

This feature balances the range between the loudest and quietest sounds. You can use this function to enjoy Dolby Digital sound when watching movies at low volume at night.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor **▼** button to move to **Audio** and then press the **ENTER** button.
3. Press the Cursor **▼** button to move to **DRC** and then press the **ENTER** button.
4. Press the Cursor **▲,▼** to adjust the **DRC**.
  - When the Cursor **▲** button is pressed, the effect is greater, and when the Cursor **▼** button is pressed, the effect is smaller.

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



# system setup

## SETTING THE AV SYNC

Video may look slower than the audio if it is connected to a digital TV. If this occurs, adjust the audio delay time to match the video.

1. In Stop mode, press the **MENU** button.
  2. Press the Cursor **▼** button to move to **Audio** and then press the **ENTER** button.
  3. Press the Cursor **▼** button to move to **AV-SYNC** and then press the **ENTER** button.
  4. Press the Cursor **▲,▼** button to select the AV-SYNC Delay Time 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.
- Press the **RETURN** button to return to the previous level.
- Press the **EXIT** button to exit the setup screen.



## SETTING THE HDMI AUDIO

The audio signals transmitted over the HDMI Cable can be toggled ON/OFF.

1. In Stop mode, press the **MENU** button.
  2. Press the Cursor **▼** button to move to **Audio** and then press the **ENTER** button.
  3. Press the Cursor **▼** button to move to **HDMI AUDIO** and then press the **ENTER** button.
  4. Press the Cursor **▲,▼** button to select **ON** or **OFF** and then press the **ENTER** button.
- **ON** : Both video and audio signals are transmitted over the HDMI connection cable, and audio is output through your TV speakers only.
  - **OFF** : Video is transmitted over the HDMI connection cable only, and audio is output through the home theater speakers only.
- Press the **RETURN** button to return to the previous level.
- Press the **EXIT** button to exit the setup screen.



- The default setting of this function is HDMI AUDIO OFF.
- HDMI AUDIO is automatically down-mixed to 2ch for TV speakers.

## SOUND FIELD (DSP)/EQ FUNCTION

DSP(Digital Signal Processor) : DSP modes have been designed to simulate different acoustic environments.

EQ : You can select ROCK, POP, or CLASSIC to optimize the sound for the genre of music you are playing

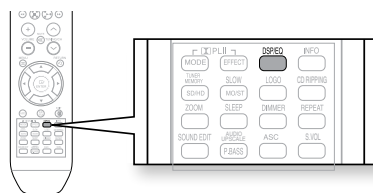
Press the DSP/EQ button.

- **DSP** appears on the display panel.

Each time the button is pressed, the selection changes as follows:

**POPS → JAZZ → ROCK → STUDIO → CLUB → HALL → MOVIE → CHURCH → PASS → POPS**

- **POP, JAZZ, ROCK** : Depending on the genre of music, you can select POP, JAZZ, and ROCK.
- **STUDIO** : Provides a sense of presence as if in a studio.
- **CLUB** : Simulates the sound of a dance club with a throbbing bass beat.
- **HALL** : Provides a clear vocal as if listening in a concert hall.
- **MOVIE** : Provides the feeling of a movie theater.
- **CHURCH** : Gives the feel of being in a grand church.
- **PASS** : Select this for normal listening.



- The DSP/EQ function is only available in STEREO mode. Press the **PL II mode** button to show STEREO on the display.
- This feature works with CDs, MP3-CDs, 2 channel DVD-Audio, DivX, tuner and Dolby Digital discs.
- When playing a DVD disc encoded with two or more channels, multi-channel mode will be selected automatically and DSP/EQ function does not work.

## DOLBY PRO LOGIC II MODE

You can select the desired Dolby Pro Logic II audio mode.

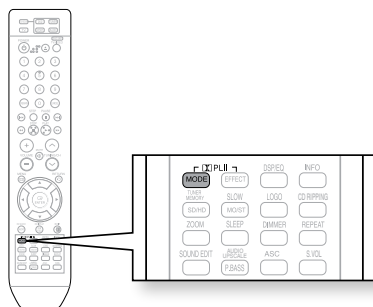
Press the **PL II MODE** button.

- Each time the button is pressed, the mode changes as follows.

**MUSIC → CINEMA → PROLOG → MATRIX →  
STEREO → MUSIC**

### PRO LOGIC II

- **MUSIC** : When listening to music, you can experience sound effects as if you are listening to the actual performance.
- **CINEMA** : 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 sound from the front left and right speakers and the subwoofer only.



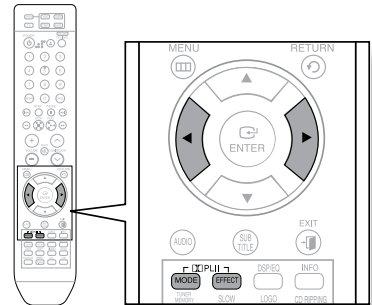
- When selecting Pro Logic II mode, connect your external device to the AUDIO INPUT jacks (L and R) on the player. If you connect to only one of the inputs (L or R), you cannot listen to surround sound.

# system setup

## DOLBY PRO LOGIC II EFFECT

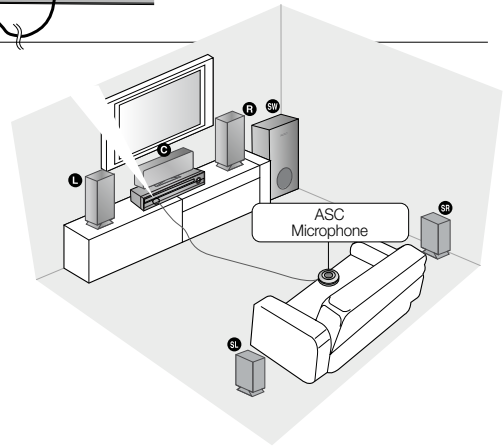
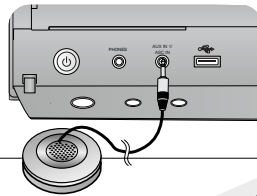
This function works only in Dolby Pro Logic MUSIC mode.

1. Press the **PL II MODE** button to select **MUSIC** mode.
2. Press the **PL II EFFECT** button.
3. Press the **◀▶** buttons to select the desired effect setting.
  - PANORAMA : You can select either 0 or 1.
  - C- WIDTH : You can select between 0 and 7.
  - DIMENS : You can select between 0 and 6.



## ASC (Auto Sound Calibration) SETUP

By setting the ASC function just once when you relocate or install the unit, you can have the unit automatically recognize the distance between speakers, levels between channels, and frequency characteristics to create a 5.1-channel sound field optimized for your environment.



L: FRONT SPEAKER (L)      SL: REAR SPEAKER (L)  
R: FRONT SPEAKER (R)      SR: REAR SPEAKER (R)  
C: CENTER SPEAKER  
SW: SUBWOOFER



- ASC SETUP can be made when there is no disc in the unit, or it is in Stop mode with a DVD/CD inserted.
- Because the volume level of the tone is fixed during the ASC setup, you cannot adjust the volume using the volume control buttons.
- If the auto sound microphone is disconnected during the ASC setup, the setup will be cancelled.
- When ASC function is activated, the DSP/EQ, DOLBY PRO LOGIC II, and P. BASS sound effects will not work.

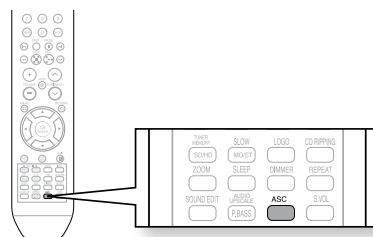
## To Verify the ASC

Briefly press **ASC** button.

- Distance and level values specified for each channel will appear in the display.

## ASC (Auto Sound Calibration) SETUP

1. Plug the ASC microphone into the ASC input jack.
2. Place the ASC microphone at the listening position.
3. Press **ASC** button.
  - To create the optimal 5.1 channel sound field, the selections are in the following sequence:  
**L → C → R → SR → SL → SW**
4. When the message "REMOVE MIC" appears in the display, unplug the ASC microphone.



- Setting the ASC function takes about 3 minutes.

### To cancel the ASC (Auto Sound Calibration) setup, press **ASC button**.

The tone output stops, "CANCEL ASC" appears in the display followed by "REMOVE MIC", and the setup is cancelled.

### To listen in the ASC (Auto Sound Calibration) mode, briefly press **ASC button**.

The selection alternates between ASC ON and ASC OFF in the display.

If you select "ASC ON", you will hear sound in the ASC mode.

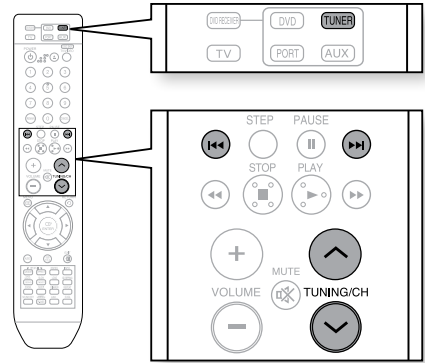
If you select "ASC OFF", you will hear sound in the mode set in the audio setting of the setup screen.



## LISTENING TO RADIO

### Remote Control

1. Press the **TUNER** button to select the FM band.
2. Tune in to the desired station.
  - **Automatic Tuning 1** : When the **◀◀, ▶▶** button is pressed, a preset broadcast station is selected.
  - **Automatic Tuning 2** : Press and hold the **▲, ▼** button to automatically search for active broadcasting stations.
  - **Manual Tuning** : Briefly press the **▲, ▼** button to increase or decrease the frequency incrementally.



### Main Unit

1. Press the **FUNCTION** button to select the FM band.
2. Select a broadcast station.
  - **Automatic Tuning 1** : Press the **STOP** (◻) button to select **PRESET** and then press the **◀◀, ▶▶** button to select the preset station.
  - **Automatic Tuning 2** : Press the **STOP** (◻) button to select **MANUAL** and then press and hold the **◀◀, ▶▶** button to automatically search the band.
  - **Manual Tuning** : Press the **STOP** (◻) button to select **MANUAL** and then briefly press the **◀◀, ▶▶** button to tune in to a lower or higher frequency.

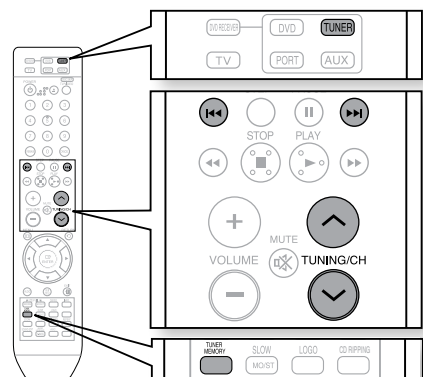
Press the **MO/ST** button to listen in Mono/Stereo.

- 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.

## PRESETTING STATIONS

Example : Presetting FM 89.10 in the memory

1. Press the **TUNER** button to select the FM band.
2. Press the **▲, ▼** button to select **89.10**.
3. Press the **TUNER MEMORY** button.
4. Press the **◀◀, ▶▶** button to select preset number.
  - You can select between 1 and 15 presets.
5. Press the **TUNER MEMORY** button again.
6. To preset another station, repeat steps 2 to 5.
  - To tune in to a preset station, press the **◀◀, ▶▶** button on the remote control to select a channel.



# convenient function

## SLEEP TIMER FUNCTION

You can set the time that the Home Theater will shut itself off.

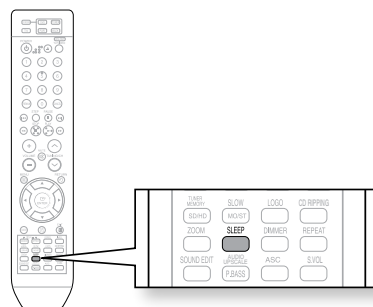
Press the **SLEEP** button.

- **SLEEP** will be displayed. Each time the button is pressed, the preset time changes as follows :  
SLP10 → SLP20 → SLP30 → SLP60 → SLP90 → SLP120 → SLP150 → OFF.

To confirm the sleep timer setting, press the **SLEEP** button.

- The remaining time before the Home Theater 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 the **SLEEP** button until **OFF** appears on the display.

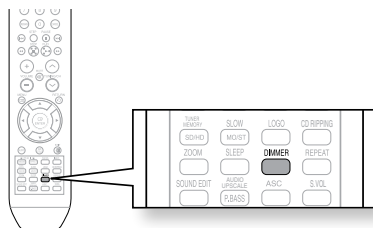


## ADJUSTING DISPLAY BRIGHTNESS

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

Press the **DIMMER** button.

- Each time the button is pressed, the brightness of front display will be adjusted.

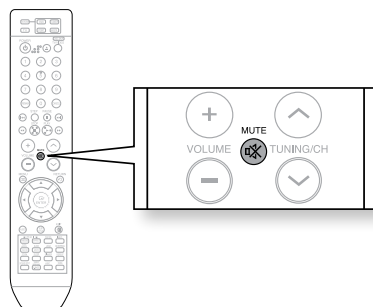


## MUTE FUNCTION

This is useful when answering a doorbell or telephone call.

Press the **MUTE** button.

- **MUTE** appears in the display.
- To restore the sound, press the **MUTE** button again.



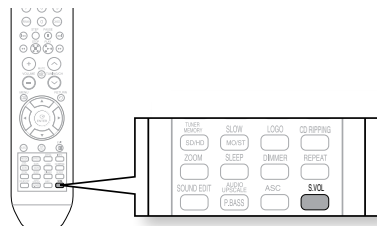
## S.VOL (SMART VOLUME)

This will regulate and stabilize the volume level against a drastic volume change when changing channels or during a scene transition.

Press the **S.VOL** button.

- Each time the button is pressed, the selection changes as follows :

**SV ON** → **SV OFF**



## P.BASS/AUDIO UPSCALING

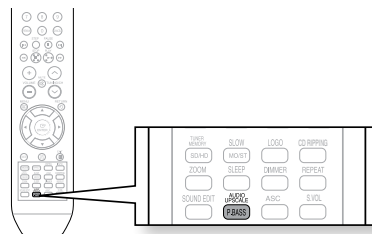
### P.BASS

P.BASS function stresses low tones providing thudding sound effects.

Press the **P.BASS/AUDIO UPSCALE** button to select **P.BASS** mode.

- Each time the button is pressed, the selection changes as follows :

**POWER BASS ON** → **UPS ON** → **OFF**



### AUDIO UPSCALING

This also helps enhance your sound experience (ex. mp3 music).

You can upscale your MP3 level sound(24 kHz, 8bit) to CD level sound(44.1 kHz, 16bit).

Press the **P.BASS/AUDIO UPSCALE** button to select **AUDIO UPSCALE** mode.

- Each time the button is pressed, the selection changes as follows :

**UPS ON** → **OFF**



- The P.BASS function is only available with 2 channel LPCM sources such as mp3, Divx, cd and wma.  
Press P.BASS button and "POWER BASS ON" will be displayed on the screen.
- The P.bass does not work with DSP/EQ or DOLBY PRO LOGIC II modes.  
If you press P.BASS in the DSP/EQ mode, the DSP/EQ mode is automatically shut off and the P. BASS function comes on.

# convenient function

## CD RIPPING FUNCTION

You can rip a compact disc as a MP3 file on the USB  
This feature enables you to ripping with the start of the disc or track of your choice.

**1** Switch the system on by pressing **STANDBY/ON**.

**2** Connect the USB.

**3** Load a compact disc(Digital Audio).

**4** Press **CD RIPPING** button on remote control to starting ripping.

- ◆ If the system is either at pause or playing state,turn the **CD RIPPING** dial down or press **CD RIPPING** button on the remote control to start the ripping for the current track.
- ◆ Turn **CD RIPPING** dial up or press and hold **CD RIPPING** button on the remote control to start ripping the all tracks of Disc.
- ◆ "CD Ripping" is displayed in red and **CD RIPPING** starts.
- ◆ During CD ripping, do not disconnect USB device.

**5** To stop ripping, press **STOP** button.and then automatically create and save as the MP3 file.

After CD-Ripping,a directory named "RIPPING" will be created in your device.The file name follows the format:"SAM-XXXX".MP3.

- ◆ Press the **OPEN/CLOSE** button to open the disc tray.
- ◆ Insert a CD and press the **OPEN/CLOSE** button to close the disc tray.
- ◆ Use the CD selection ( **⏪/⏩** ) buttons to select the desired song.

### Note


- ◆ Don't disconnected USB and AC Cord during CD-Ripping.This may cause the file damage.If you want to stop CD-Ripping during CD-Ripping,you must press stop Key first and after the CD Stopped,then you can remove the USB device.
- ◆ If you disconnected USB device when CD Ripping,the main unit will be power off and you may not delete the ripped file.In this case, please connect the USB on the PC and backup the USB data on the PC first and then formate the USB device .
- ◆ On the CD playing ,connect the USB,the CD play will be paused and will resume playing till the USB initialization finished.
- ◆ According the different USB the initialization time maybe different.
- ◆ When the USB memory is not enough,it will be displayed "NOT ENOUGH MEMORY"
- ◆ DTS-CD can't for CD Ripping.
- ◆ Starting CD ripping within 5 seconds can't create the CD Ripping file.
- ◆ Ripping file is only created when CD Ripping is stopped afters 5 seconds (ex. SAM-0001.MP3).
- ◆ With external HDD,FAT format the USB can be CD Ripping,but not NTFS.The CD Ripping function of this product does not support all USB devices.
- ◆ When you use CD high speed search function,the CD Ripping can't work.
- ◆ When CD Ripping, CD audio can't be out.
- ◆ During CD Ripping,do not deal impact.If is shocked while CD Ripping,CD Ripping maybe disengage.
- ◆ Sometimes, some of USB devices, CD Ripping time is long.
- ◆ If you use scratched disc for CD Ripping, or connect/disconnect HDMI cable during CD Ripping, there might be some noise and broken sound on ripped file.
- ◆ When HDMI audio on, the CD RIPPING can't work.

## CD Ripping Feature Supported Player

Product	Company	Type
YP-T8	Samsung	MP3 Player
YP-T7F	Samsung	MP3 Player
YP-D1	Samsung	MP3 Player
YP-T8N	Samsung	MP3 Player
YP-U2	Samsung	MP3 Player
YP-T9	Samsung	MP3 Player
YP-K5	Samsung	MP3 Player
YP-K3	Samsung	MP3 Player
YV-150	Samsung	MP3 Player
YP-U3	Samsung	MP3 Player

# troubleshooting

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
<b>Disc tray does not open.</b>	<ul style="list-style-type: none"> <li>• Is the power cord plugged securely into the outlet?</li> <li>• Turn off the power and then turn it back on.</li> </ul>
<b>'Please connect your ipod' appears on the screen.</b>	<ul style="list-style-type: none"> <li>• Remove the iPod from the docking cradle and reinsert again.</li> <li>• If the battery level of your iPod is totally drained, you have to charge it again before use.</li> </ul>
<b>Playback does not start immediately when the Play/Pause button is pressed.</b>	<ul style="list-style-type: none"> <li>• Are you using a deformed disc or a disc with scratches on the surface?</li> <li>• Wipe the disc clean.</li> </ul>
<b>Sound is not produced.</b>	<ul style="list-style-type: none"> <li>• No sound is heard during fast playback, slow playback, and step motion playback.</li> <li>• Are the speakers connected properly? Is the speaker setup correctly customized?</li> <li>• Is the disc severely damaged?</li> </ul>
<b>Sound can be heard only from a few speakers and not all six.</b>	<ul style="list-style-type: none"> <li>• When listening to a CD or radio, sound is output to the front speakers (L/R) only. Select "PRO LOGIC II" by pressing  PL II (Dolby Pro Logic II) on the remote control to use all six speakers.</li> <li>• Make sure that the DVD disc is 5.1-CH compatible.</li> <li>• If you set C, SL, and SR to NONE in the speaker mode in the audio setup of the setup screen, no sound is heard from the center speaker and the front left and right speakers. Set C, SL, and SR to SMALL.</li> </ul>
<b>Dolby Digital 5.1 CH Surround Sound is not produced.</b>	<ul style="list-style-type: none"> <li>• Is there "Dolby Digital 5.1 CH" mark on the disc? Dolby Digital 5.1 CH Surround Sound is produced only if the disc is recorded with 5.1 channel sound.</li> <li>• Is the audio language correctly set to DOLBY DIGITAL 5.1-CH in the information display?</li> </ul>
<b>The remote control does not work.</b>	<ul style="list-style-type: none"> <li>• Is the remote control being operated within its operation range of angle and distance?</li> <li>• Are the batteries exhausted?</li> <li>• Have you selected the mode(TV/DVD) functions of the remote control (TV or DVD) correctly?</li> </ul>

SYMPTOM	Check/Remedy
<ul style="list-style-type: none"> <li>• Disc is rotating but no picture is produced.</li> <li>• Picture quality is poor and picture is shaking.</li> </ul>	<ul style="list-style-type: none"> <li>• Is the TV power on?</li> <li>• Are the video cables connected properly?</li> <li>• Is the disc dirty or damaged?</li> <li>• A poorly manufactured disc may not be playable.</li> </ul>
<p>Audio language and subtitles do not work.</p>	<ul style="list-style-type: none"> <li>• Audio language and subtitles will not work if the disc does not contain them.</li> </ul>
<p>Menu screen does not appear even when the menu function is selected.</p>	<ul style="list-style-type: none"> <li>• Are you using a disc that does not contain menus?</li> </ul>
<p>Aspect ratio cannot be changed.</p>	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
<ul style="list-style-type: none"> <li>• The main unit is not working. (Example: The power goes out or strange noise is heard.)</li> <li>• The DVD player is not working normally.</li> </ul>	<ul style="list-style-type: none"> <li>• Turn off the power and hold the <b>STOP</b> (■) button on the main unit for longer than 5 seconds (reset function).</li> </ul> <p><b>Using the RESET function will erase all stored settings. Do not use this unless necessary.</b></p>
<p>The password for rating level has been forgotten.</p>	<ul style="list-style-type: none"> <li>• While "NO DISC" message appears on the display of main unit, hold the main unit's <b>STOP</b> (■) button for longer than 5 seconds. "INITIAL" appears on the display and all settings will return to the default values.</li> <li>• Press the POWER button.</li> </ul> <p><b>Using the RESET function will erase all stored settings. Do not use this unless necessary.</b></p>
<p>Can't receive radio broadcast.</p>	<ul style="list-style-type: none"> <li>• Is the antenna connected properly?</li> <li>• If the antenna's input signal is weak, install an external FM antenna in an area with good reception.</li> </ul>
<p>'CHECK ANTENNA' is displayed.</p>	<ul style="list-style-type: none"> <li>• XM Antenna Jack and the XM Antenna is not properly connected. Check the connections.</li> </ul>
<p>'ON SIGNAL' is displayed.</p>	<ul style="list-style-type: none"> <li>• Reposition your XM Antenna.</li> </ul>
<p>'OFF AIR' is displayed.</p>	<ul style="list-style-type: none"> <li>• The selected channel is not currently broadcasting.</li> </ul>
<p>Receiving only XM channel 0 and channel 1.</p>	<ul style="list-style-type: none"> <li>• XM Antenna is not activated.</li> <li>• Access the website at "http://activate.xmradio.com" with a credit card to sign up.</li> </ul>

# language code list

Enter the appropriate code number for the initial settings “Disc Audio”, “Disc Subtitle” and/or “Disc Menu” (See page 54).

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

# USB host feature supported products

## DIGITAL CAMERA

Product	Company	Type	Product	Company	Type
Finepix-A340	Fuji	Digital Camera	U300	Olympus	Digital Camera
Finepix-F810	Fuji	Digital Camera	X-350	Olympus	Digital Camera
Finepix-F610	Fuji	Digital Camera	C-760	Olympus	Digital Camera
Finepix-f450	Fuji	Digital Camera	C-5060	Olympus	Digital Camera
Finepix S7000	Fuji	Digital Camera	X1	Olympus	Digital Camera
Finepix A310	Fuji	Digital Camera	U-mini	Olympus	Digital Camera
KD-310Z	Konica	Digital Camera	Lumix-FZ20	Panasonic	Digital Camera
Finecam SL300R	Kyocera	Digital Camera	DMC-FX7GD	Panasonic	Digital Camera
Finecam SL400R	Kyocera	Digital Camera	Lumix LC33	Panasonic	Digital Camera
Finecam S5R	Kyocera	Digital Camera	LUMIX DMC-F1	Panasonic	Digital Camera
Finecam Xt	Kyocera	Digital Camera	Optio-S40	Pentax	Digital Camera
Dimage-Z1	Minolta	Digital Camera	Optio-S50	Pentax	Digital Camera
Dimage Z1	Minolta	Digital Camera	Optio 33LF	Pentax	Digital Camera
Dimage X21	Minolta	Digital Camera	Optio MX	Pentax	Digital Camera
Coolpix4200	Nikon	Digital Camera	Digimax-420	Samsung	Digital Camera
Coolpix4300	Nikon	Digital Camera	Digimax-400	Samsung	Digital Camera
Coolpix 2200	Nikon	Digital Camera	Sora PDR-T30	Toshiba	Digital Camera
Coolpix 3500	Nikon	Digital Camera	Coolpix 5900	Nikon	Digital Camera
Coolpix 3700	Nikon	Digital Camera	Coolpix S1	Nikon	Digital Camera
Coolpix 4100	Nikon	Digital Camera	Coolpix 7600	Nikon	Digital Camera
Coolpix 5200	Nikon	Digital Camera	DMC-FX7	Panasonic	Digital Camera
Stylus 410 digital	Olympus	Digital Camera	Dimage Xt	Minolta	Digital Camera
300-digital	Olympus	Digital Camera	AZ-1	Olympus	Digital Camera
300-digital	Olympus	Digital Camera			

## USB FLASH DISC

Product	Company	Type	Product	Company	Type
Cruzer Micro	Sandisk	USB 2.0 USB Flash Drive 128M	XTICK	LG	USB 2.0 128M
Cruzer Mini	Sandisk	USB 2.0 128M	Micro Mini	lomega	USB 2.0 128M
Cruzer Mini	Sandisk	USB 2.0 256M	iFlash	Imation	USB 2.0 64M
SONY Micro Vault	Sony	USB 2.0 64MB	LG	XTICK(M)	USB 2.0 64M
FLEX DRIVE	Serotech	USB 2.0 32MB	RiDATA	EZDrive	USB 2.0 64M
AnyDrive	A.L tech	USB 2.0 128MB			

## MP3 PLAYER

Product	Company	Type	Product	Company	Type
Creative MuVo NX128M	Creative	128 MB MP3 Player	YP-K3	Samsung	MP3 Player
Iriver H320	Iriver	20G HDD MP3 Player	YP-U3	Samsung	MP3 Player
YH-920	Samsung	20G HDD MP3 Player	YP-Z5F	Samsung	MP3 Player
YP-T7	Samsung	MP3 Player	iAUDIO U2	Cowon	MP3 Player
YP-MT6	Samsung	MP3 Player	iAUDIO G3	Cowon	MP3 Player
YP-T6	Samsung	MP3 Player	iAudio M3	Cowon	HDD MP3 Player
YP-T9	Samsung	MP3 Player	SI-M500L	Sharp	256MB MP3 Player
YP-ST5	Samsung	MP3 Player	H10	Iriver	MP3 Player
YP-T5	Samsung	MP3 Player	YP-T10	Samsung	MP3 Player
YP-K5	Samsung	MP3 Player	YP-P2	Samsung	MP3 Player




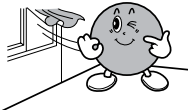
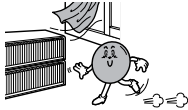
## CAUTIONS ON HANDLING AND STORING DISCS

Small scratches on the disc may reduce sound and picture quality or cause skipping.  
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.

### Disc Storage

Do not keep in direct sunlight	Keep in a cool ventilated area	Keep in a clean Protection jacket. Store vertically.
		

- ☒ Do not allow the discs to become contaminated with dirt.
- Do not load cracked or scratched discs.

### 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.

## SPECIFICATIONS

General	Power Requirements	AC 120V, 60Hz
	Power Consumption	90 W
	Weight	11.5 lbs
	Dimensions	16.9 (W) x 17.3 (H) x 2.9 (D) inches
	Operating Temperature Range	+41°F to +95°F
	Operating Humidity Range	10 % to 75 %
Disc	DVD (Digital Versatile Disc)	Reading Speed : 3.49 ~ 4.06 m/sec. Approx. Play Time (Single Sided, Single Layer Disc) : 135 min.
	CD : 5 inches (COMPACT DISC)	Reading Speed : 4.8 ~ 5.6 m/sec. Maximum Play Time : 74 min.
	CD : 3 1/2 inches (COMPACT DISC)	Reading Speed : 4.8 ~ 5.6 m/sec. Maximum Play Time : 20 min.
Video Output	Composite Video	480i 1 channel : 1.0 Vp-p (75 Ω load)
	Component Video	480i Y : 1.0 Vp-p (75 Ω load) Pr : 0.70 Vp-p (75 Ω load) Pb : 0.70 Vp-p (75 Ω load)
Video/Audio	HDMI	1080p, 1080i, 720p, 480p
Amplifier	Front speaker output	170W × 2(3Ω)
	Center speaker output	180W(3Ω)
	Rear speaker output	170W × 2(3Ω)
	Subwoofer speaker output	170W × 2(3Ω)
	Frequency range	20Hz~20KHz
	S/N Ratio	70dB
	Channel separation	60dB
	Input sensitivity	(AUX)400mV

### SWA-4100

Power Requirements	AC120V~ 60Hz
Power Consumption	40 W
Weight	2.9 lbs
Dimensions (W x H x D)	3.0 x 10.1 x 6.9 inches
Operating Temperature Range	+41°F to +95°F
Operating Humidity Range	10% ~ 75%
Output	170W x 2
Frequency range	20Hz~20KHz
S/N Ratio	75dB

# appendix

## HT-Z520

Speaker	Speaker system	5.1ch speaker system		
		Front/Rear	Center	Subwoofer
	Impedance	3 Ω	3 Ω	3 Ω
	Frequency range	140Hz~20KHz	140Hz~20KHz	45Hz~160Hz
	Output sound pressure level	86dB/W/M	86dB/W/M	86dB/W/M
	Rated input	170W	180W	340W
	Maximum input	340W	360W	680W
	Dimensions (W x H x D)	Front/Rear : 3.5 x 9.0 x 3.6 inches Center : 11.8 x 4.0 x 3.6 inches Subwoofer : 7.9 x 15.7 x 16.5 inches		
	Weights	Front : 1.9 lbs, Center : 3.1 lbs Rear : 1.1 lbs, Subwoofer : 19.0 lbs		

## HT-TZ522

Speaker	Speaker system	5.1ch speaker system		
		Front/Rear	Center	Subwoofer
	Impedance	3 Ω	3 Ω	3 Ω
	Frequency range	140Hz~20KHz	140Hz~20KHz	45Hz~160Hz
	Output sound pressure level	86dB/W/M	86dB/W/M	86dB/W/M
	Rated input	170W	180W	340W
	Maximum input	340W	360W	680W
	Dimensions (W x H x D)	Front : 3.5 x 47.2 x 3.6 inches Rear : 3.5 x 9.0 x 3.6 inches Center : 11.8 x 4.0 x 3.6 inches Subwoofer : 7.9 x 15.7 x 16.5 inches		
	Weights	Front : 7.7 lbs, Center : 3.1 lbs Rear : 1.1 lbs, Subwoofer : 19.0 lbs		

## HT-TZ525

Speaker	Speaker system	5.1ch speaker system		
		Front/Rear	Center	Subwoofer
	Impedance	3 Ω	3 Ω	3 Ω
	Frequency range	140Hz~20KHz	140Hz~20KHz	45Hz~160Hz
	Output sound pressure level	86dB/W/M	86dB/W/M	86dB/W/M
	Rated input	170W	180W	340W
	Maximum input	340W	360W	680W
	Dimensions (W x H x D)	Front/Rear : 3.5 x 47.2 x 3.6 inches Center : 11.8 x 4.0 x 3.6 inches Subwoofer : 7.9 x 15.7 x 16.5 inches		
	Weights	Front : 7.7 lbs, Rear : 7.4 lbs, Center : 3.1 lbs, Subwoofer : 19.0 lbs		

\*: Nominal specification

- Samsung Electronics Co., Ltd reserves the right to change the specifications without notice.
- Weight and dimensions are approximate.

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#### (\*90 Days Parts and Labor for Commercial Use)

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