

HW-E5500

AV Receiver System

user manual

imagine the possibilities

Thank you for purchasing this Samsung product.
To receive more complete service,
please register your product at
www.samsung.com/register



Safety Information

Safety Warnings

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

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
This symbol indicates “dangerous voltage” inside the product that presents a risk of electric shock or personal injury.	CAUTION : TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.	This symbol indicates important instructions accompanying the product.

WARNING

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

CAUTION

- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- The Mains plug is used as a disconnect device and shall stay readily operable at any time.
- This apparatus shall always be connected to an AC outlet with a protective grounding connection.
- To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.

CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT
PRODUCTO	LÁSER CLASE 1

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 exposure.

CAUTION

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

Precautions

- Ensure that the AC power supply in your house complies with the identification sticker located on the back of your product.
- Install your product horizontally, on a suitable base (furniture), with enough space around it for ventilation (7.5~10cm).
- Do not place the product on amplifiers or other equipment which may become hot. Make sure the ventilation slots are not covered.
- Do not stack anything on top of the product.
- In order to disconnect the product completely from the power supply, remove the AC plug from the wall outlet, especially when left unused for a long period of time.
- During thunderstorms, disconnect the AC plug from the wall outlet. Voltage peaks due to lightning could damage the product.
- Do not expose the product to direct sunlight or other heat sources. This could lead to overheating and malfunction of the product.
- Protect the product from moisture, and excess heat or equipment creating strong magnetic or electric fields (i.e. speakers.).
- Disconnect the power cable from the AC supply if the product malfunctions.
- Your product is not intended for industrial use. Use of this product is for personal use only.
- Condensation may occur if your product has been stored in cold temperatures. If transporting the product during the winter, wait approximately 2 hours until the product has reached room temperature before using.
- The batteries used with this product contain chemicals that are harmful to the environment. Do not dispose of batteries in the general household trash.

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ENGLISH

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Getting Started

Key features of your new AV Receiver

Product Features

3D SOUND

You can enjoy more natural and vivid surround sound with enriched tones.

Digital AV Receiver

This product is a pure digital AV receiver that performs digital signal processing to minimize signal distortion and loss.

Dolby Digital

Effective audio encoding/decoding technology that provides a vivid surround sound in up to 5.1 channels.

Dolby Pro Logic II

DPL II processes any high quality stereo signal source into five separate full frequency channels.

DTS (Digital Theater Systems)

DTS provides a discrete 5.1 CH digital audio signal for both music and movie contents and uses less compression than Dolby Digital for richer sound.

Anynet+ (HDMI-CEC) Function

Anynet+ is a function that can be used to operate this AV Receiver with a Samsung TV remote control, by connecting the receiver to a SAMSUNG TV using an HDMI Cable. (This function is available only in connection with Samsung TV and DVD player supporting Anynet+(HDMI-CEC).)

Accessories

Check the box for the supplied accessories listed below.



Remote Control/ Batteries (AAA size)



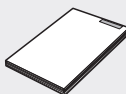
FM antenna



Video Cable



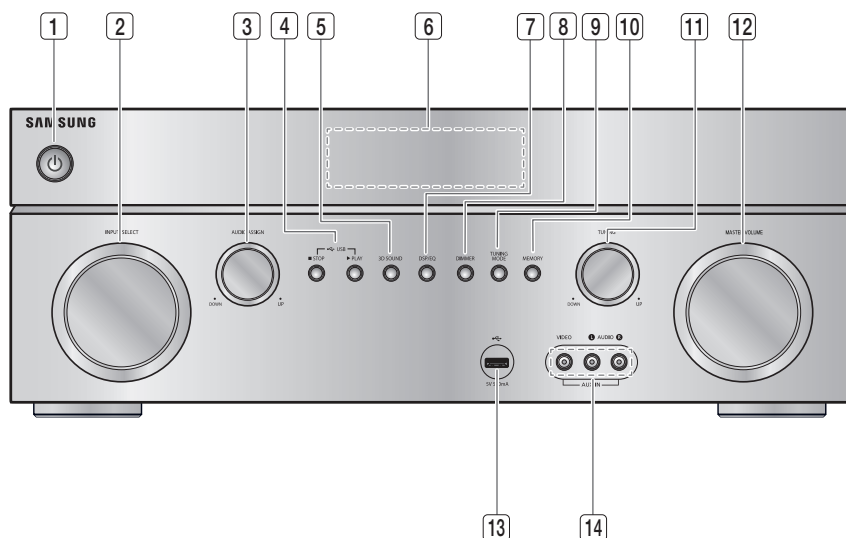
HDMI Cable



User's manual

Description

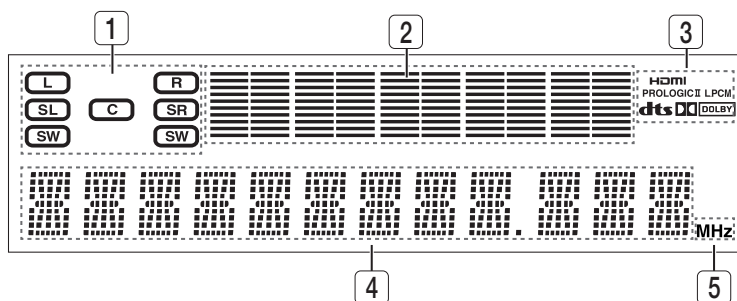
Front Panel



1	POWER BUTTON (⏻)	Turns the receiver on/off.
2	INPUT SELECT CONTROL	Used to select a source. FM → DVD → AUX → TV → USB
3	AUDIO ASSIGN CONTROL	Toggles to select an input mode for the selected source.
4	STOP/PLAY BUTTON	Play, pause or stop playing the music in the USB connection.
5	3D SOUND BUTTON	Press to apply 3D Sound effect.
6	DISPLAY	Displays the speaker/audio input status, listening mode, etc.
7	DSP/EQ BUTTON	Select the desired DSP/EQ audio mode.
8	DIMMER BUTTON	Adjust the brightness of Display.
9	TUNING MODE BUTTON	Used to select the Manual or Preset mode for FM radio.
10	MEMORY BUTTON	Used to set a preset radio frequency.
11	TUNING CONTROL	Used to change the radio frequency.
12	MASTER VOLUME CONTROL	Adjusts the volume level.
13	USB PORT	Connect the USB storage device to play a multimedia file of video, photo, and music.
14	AUX IN JACKS	Auxiliary AV input terminals used to connect a camcorder, portable DVD player or gaming device.

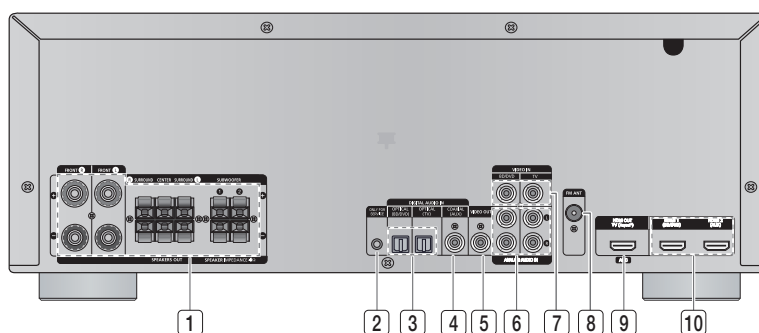
Getting Started

Display



1	SPEAKER INDICATORS	Displays sound producing speakers.
2	SPEAKER LEVEL INDICATOR	Displays the speaker level.
3	AUDIO INPUT INDICATORS	Displays the audio input signal type of the currently connected external audio source.
4	MESSAGE DISPLAY	Informs you of the status of the receiver.
5	RADIO FREQUENCY INDICATORS	Displays the current radio frequency range.

Rear Panel

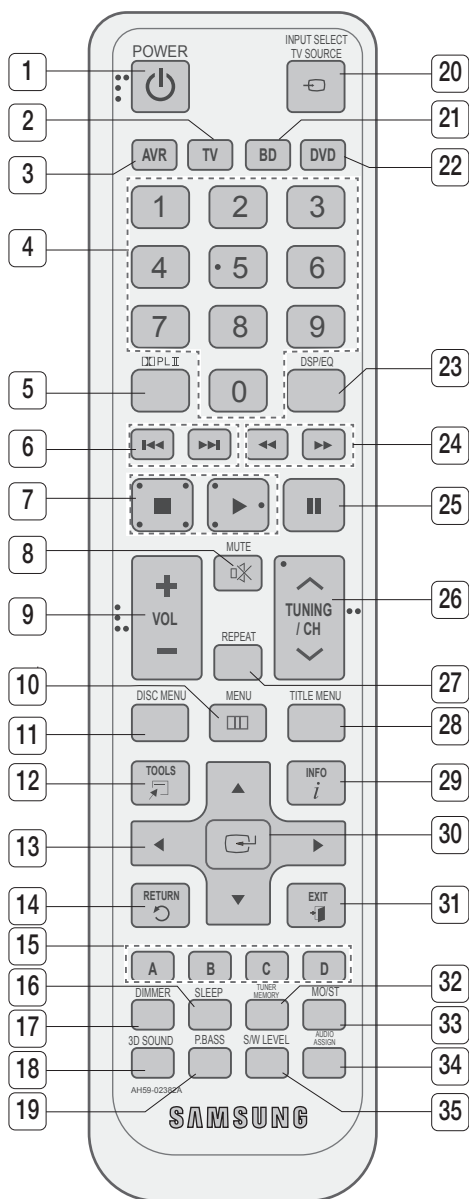


1	SPEAKERS OUT TERMINALS	Speaker connection terminals.
2	ONLY FOR SERVICE JACK	Used for the service repair.
3	OPTICAL IN JACKS (DIGITAL AUDIO IN)	Receives the digital optical audio signal. (BD/DVD, TV)
4	COAXIAL IN JACK (DIGITAL AUDIO IN)	Receives the digital coaxial audio signal. (AUX)
5	VIDEO OUT JACK	Outputs the video signal to a monitors (TV, Projector etc).
6	AUDIO IN JACKS	Receives the audio signal from a video player (BD/DVD, TV).
7	VIDEO IN JACKS	Receives the video signal from a video player (BD/DVD, TV).
8	FM ANTENNA JACK	Connect the FM antenna.
9	HDMI OUT JACKS	Outputs digital video and audio signals simultaneously using an HDMI cable.
10	HDMI IN JACKS	Receives digital video and audio signals simultaneously using an HDMI cable.

Getting Started

Remote Control

Tour of the Remote Control



1	POWER BUTTON	Turns the receiver on/off.
2	TV BUTTON	To change to TV mode, press the TV button.
3	AVR BUTTON	To change to AVR(AV Receiver) mode, press the AVR button.
4	NUMBER BUTTONS	Used to select a TV channel.
5	DOLBY PRO LOGIC II BUTTON	Select the desired Dolby Pro Logic II audio mode.
6	SKIP BUTTONS	Press to skip backwards or forwards on a connected DVD/BD player.
7	STOP/PLAY BUTTON	Press to stop/start playback on a connected DVD/BD player.
8	MUTE BUTTON	Mutes the sound of a connected device.
9	VOLUME CONTROL BUTTONS	Adjusts the volume of the selected device.
10	MENU BUTTON	Press to move to the home menu.
11	DISC MENU BUTTON	Press to view the disc menu.
12	TOOLS BUTTON	Press to use the Tools menu.
13	UP/DOWN/LEFT/RIGHT BUTTONS	Used to navigate the menus.
14	RETURN BUTTON	Used to return to the previous menu from the SETUP menu.
15	FUNCTION BUTTONS	Allow access to common functions of the product.
16	SLEEP BUTTON	Used to set the Sleep Timer.
17	DIMMER BUTTON	Adjusts the brightness of the display.
18	3D SOUND BUTTON	Press to apply 3D Sound effect.
19	P.BASS BUTTON	Select the desired Power Bass Enhancement setting.
20	INPUT SELECT, TV SOURCE BUTTON	Toggles to find and select an input source. Press to select a connected TV's video source.
21	BD BUTTON	To change to BD mode, press the BD button.
22	DVD BUTTON	To change to DVD mode, press the DVD button.
23	DSP/EQ BUTTON	DSP/EQ modes have been designed to simulate different acoustic environments.
24	SEARCH BUTTON	Press to search backwards or forwards.
25	PAUSE BUTTON	Pauses playback on a connected device.
26	TUNING/CHANNEL BUTTONS	Used to change the radio broadcasting frequency or TV channel.

Getting Started

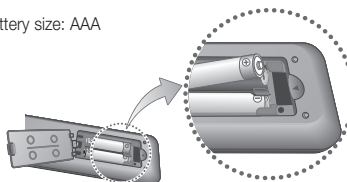
27	REPEAT BUTTON	Allows you to repeat a title, chapter, track or disc.
28	TITLE MENU BUTTON	Use to enter the title menu.
29	INFO BUTTON	Display information on the connected device currently being used.
30	ENTER BUTTON	Used to select an item in the SETUP menu.
31	EXIT BUTTON	Exits the SETUP menu.
32	TUNER MEMORY BUTTON	Used to set a preset radio frequency.
33	MO/ST BUTTON	Select MONO or STEREO for radio broadcasts.
34	AUDIO ASSIGN BUTTON	Toggles to select an input mode for the selected source.
35	S/W LEVEL BUTTON	Used to adjust the level of the subwoofer.

Installing batteries in the Remote Control

Follow these precautions to avoid leaking or cracking cells:

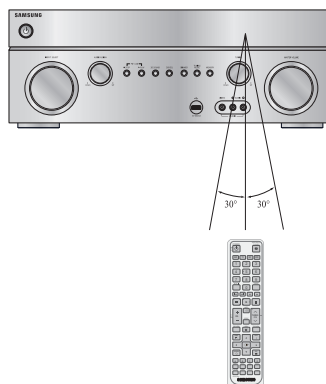
- Place batteries in the remote control so they match the polarity : (+) to (+) and (-) to (-).
- Assuming typical AVR usage, the batteries last for about one year.
- Use the correct type of batteries. Batteries that look similar may differ in voltage.
- Always replace both batteries at the same time.
- Do not expose the batteries to heat or a flame.

* Battery size: AAA



Operation Range 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.

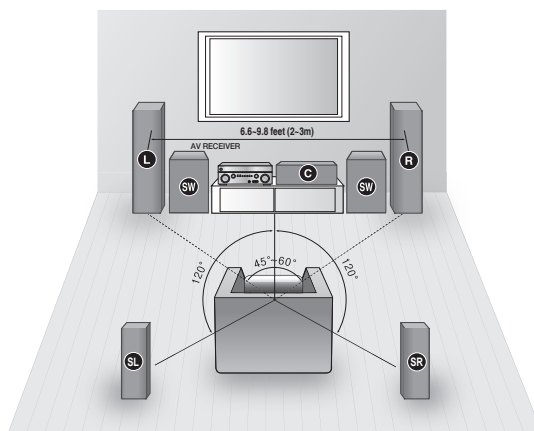


Connections

This section involves various methods of connecting the AV receiver to other external components. Before moving or installing the product, be sure to turn off the power and disconnect the power cord.

Speaker Positioning

* Speakers are provided with model HW-E5500 only.



Position of AV Receiver

Place the AV Receiver on a dedicated stand or rack.

Subwoofer (SW)

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

Front Speakers (L R)

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 ears.

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 speaker.

Center Speaker (C)

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.

Surround Speakers (SL SR)

Place these speakers behind your listening position.

If there isn't enough room, place these speakers so they face each other.

Unlike the front and center speakers, the surround speakers are used to handle mainly sound effects and sound will not come from them all the time.

NOTE

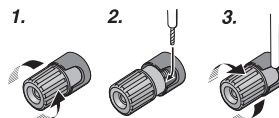
- If you place a speaker near your TV set, screen color may be distorted because of the magnetic field generated by the speaker. If this occurs, place the speaker away from your TV set.

Connections

Connecting the Speakers

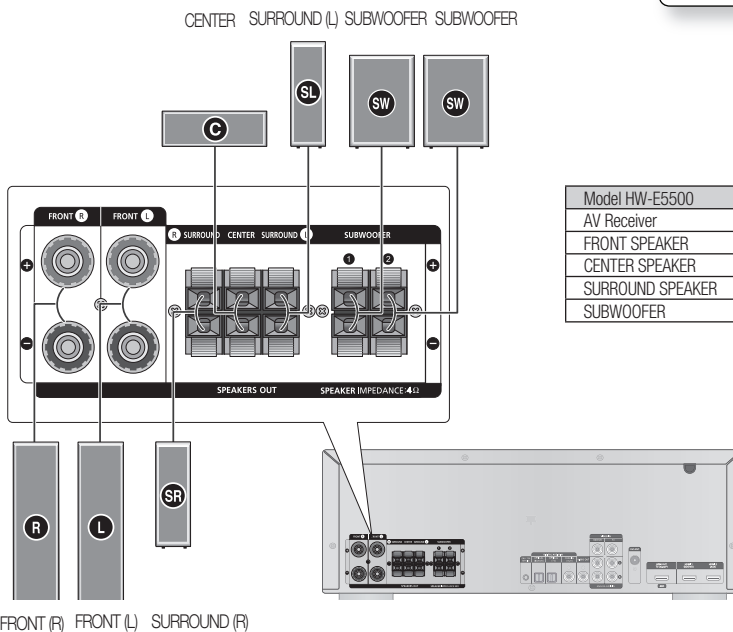
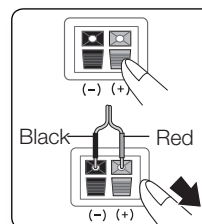
Connecting Speaker Wire

1. Loosen the knob by turning counterclockwise.
2. Insert the bare part of the wire into the hole in the side of each terminal.
3. Tighten the knob by turning clockwise to secure the wire.



Connecting the Speakers

1. Press down the terminal tab on the back of the speaker.
2. Insert the black wire into the black terminal (-) and the red wire into the red terminal (+), and then release the tab.
3. Connect the speaker wire plugs to the back of the product by matching the Colors of the speaker plugs to the speaker jacks.



Model HW-E5500	
AV Receiver	HW-E5500
FRONT SPEAKER	PS-FE5500
CENTER SPEAKER	PS-CE5500
SURROUND SPEAKER	PS-SE5500
SUBWOOFER	PS-WE5500

NOTE

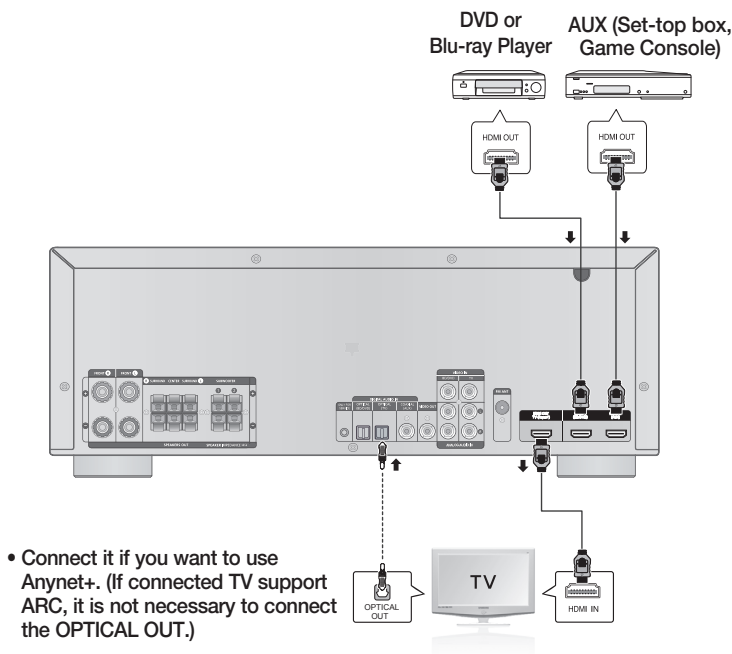
- Speakers are provided with model HW-E5500 only.
- Keep the subwoofer speaker out of reach of children to prevent them from inserting their hands or objects into the duct (hole).
- Never touch speaker terminals while the power is on. Doing so could result in electric shock.
- Make sure the polarities (+ and -) are correct.

Connecting External Devices/your TV via HDMI

HDMI is a digital standard interface for connection to such devices as a TV, projector, DVD player, Blu-ray player, set-top box and more.

HDMI removes any loss of signal from analog conversion, enabling you to enjoy video and audio sound quality as it was originally created in the digital source.

By connecting through the HDMI (High-Definition Multimedia Interface) interface, you can play back digital video and audio.



High-bandwidth Digital Content Protection System (HDCP) support

To play digital contents through the HDMI connection, both the connected external device and TV must support High-bandwidth Digital Content Protection System (HDCP). This product supports HDCP.

Compatibility with a TV Supporting HDMI	
A TV with an HDMI jack.	Video/Audio
A TV with a DVI-D jack (TV supporting HDCP)	Video
A TV with a DVI-D jack (TV not supporting HDCP)	-

NOTE

- Audio from SACD discs will not be heard with this connection. To play a DVD disc whose copyright is protected by CPPM, use a player supporting CPPM.
- The quality of the audio output through the HDMI jack (sampling frequency and bit rate) may be limited by the performance of the connected device.
- Since HDMI connection supports both video and audio, you don't have to connect an additional audio cable.

Connections

HDMI Function

Using Anynet+ (HDMI-CEC)

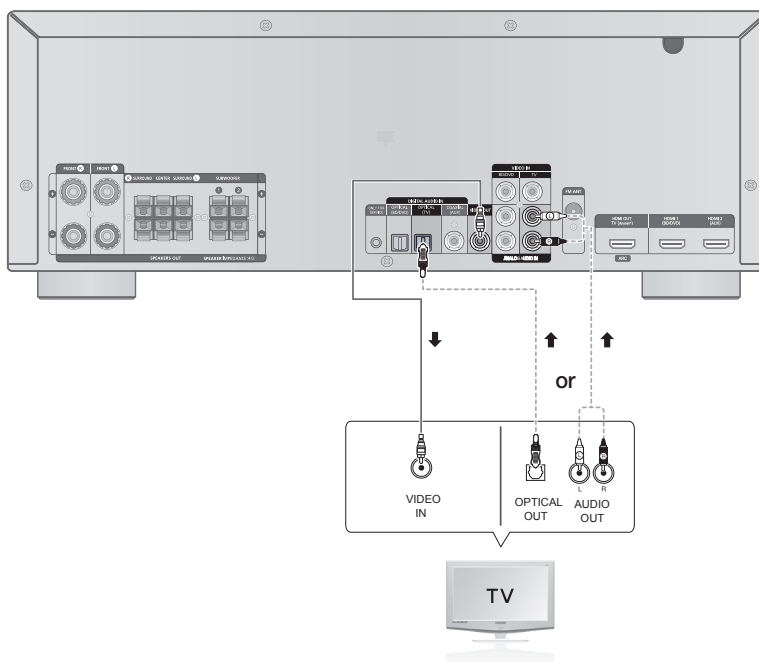
Anynet+ is a function that enables you to control other Samsung Devices with your Samsung TV's remote control. Anynet + can be used by connecting this AV Receiver to a SAMSUNG TV using an HDMI Cable. This is only available with SAMSUNG TVs and SAMSUNG AV Products that support Anynet+.

1. Connect the AV receiver to a Samsung TV with an HDMI cable. (See page 15)
2. Set the Anynet+ function on your TV.
(See the TV instructions manual for more information.)
 - You can operate the volume on the AV receiver by using Volume buttons on the TV remote control.

NOTE

- If you use an HDMI cable to connect a Samsung TV to your AV Receiver, you can operate the AV receiver using the TV's remote control. This function is available only in connection with Samsung TV and DVD player supporting Anynet + (HDMI-CEC).
- Please check your TV for the **ANYNET+** logo. If your TV has an **ANYNET+** logo, then it supports the Anynet+ function.
- When you are making Anynet+ connection, do not connect more than two AV receivers (Anynet+ installed). Otherwise, it can cause a malfunction.

Connecting to your TV



Video Connection

Connect the Video cable (supplied) from the VIDEO OUT jack on the back of your AV Receiver to the Video Input jack on your TV.

Audio Connection

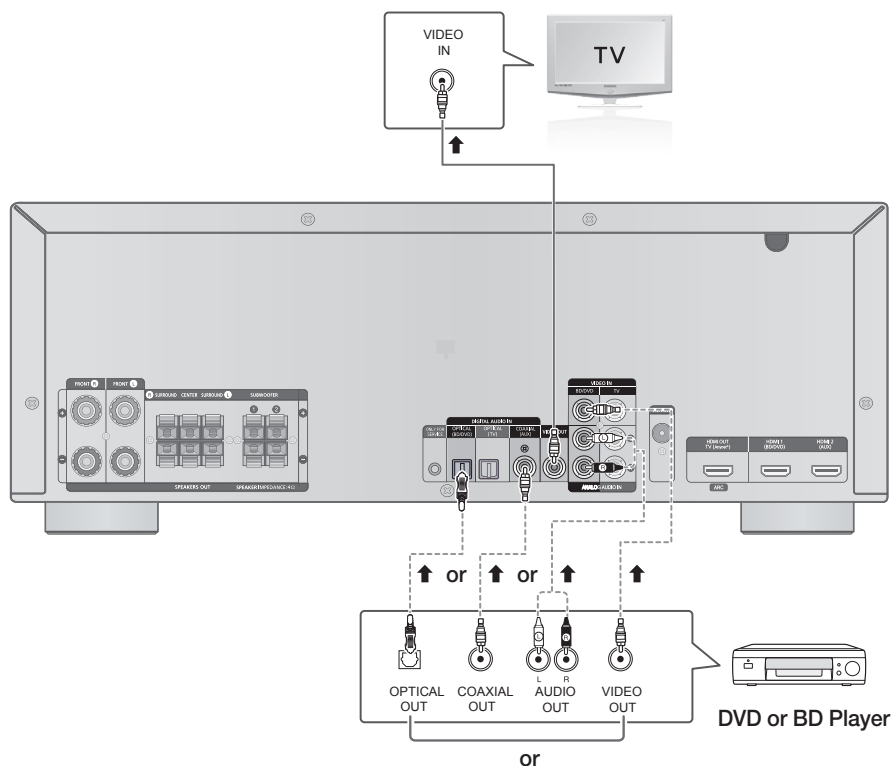
Connect the Digital Input (OPTICAL (TV)) on your AV Receiver to the Digital Output of the TV.

OR

Connect AUDIO IN (TV) on your AV Receiver to the Audio Out of the TV.

Connections

Connecting a DVD or BD(Blu-ray) Player



Video Connection

Connect a Video cable (supplied) from the VIDEO IN (BD/DVD) jack on the back of your AV Receiver to the Video Output jack on your DVD/BD player.

Audio Connection

Connect the Digital Input (OPTICAL (BD/DVD)) on your AV Receiver to the Digital Output of the DVD/BD player.

OR

Connect the Digital Input (COAXIAL (AUX)) on your AV Receiver to the Digital Output of the BD/DVD player.

OR

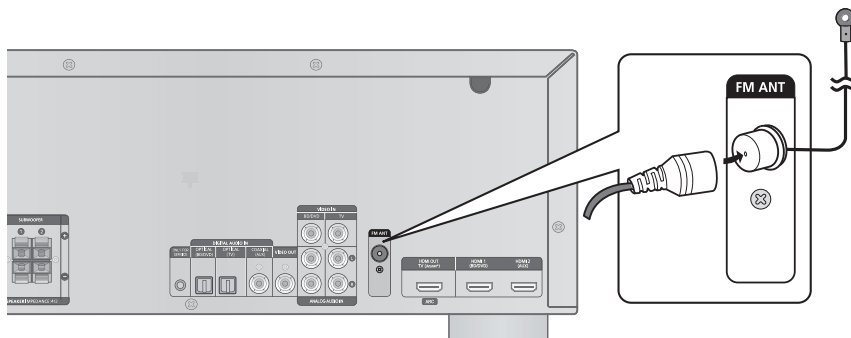
Connect AUDIO IN (BD/DVD) on your AV Receiver to the Audio Out of the DVD/BD player.

NOTE

- Disconnect the power plug from the outlet if you will not use this unit for a long period of time.
- If the cable/set-top box has only one audio output jack, connect it to either the right or left audio input jack of the main unit. Connect the audio cable's red plug to the red jack and white cable to the white jack.

Connecting the FM Antenna

1. Connect the FM antenna supplied to the FM ANTENNA terminal as a temporary measure.
2. 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.



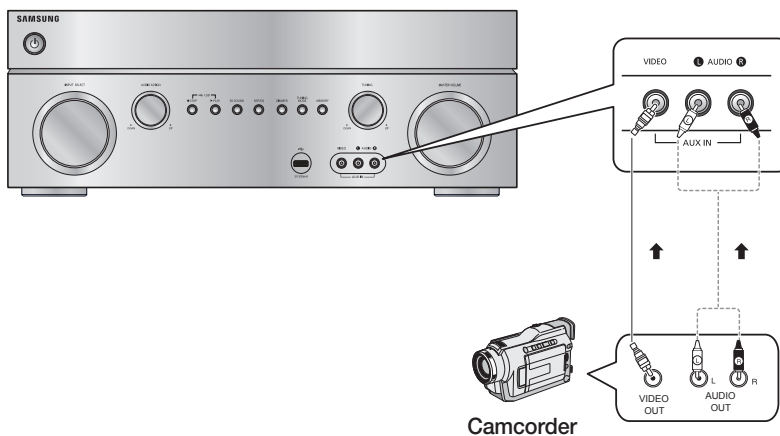
FM antenna (supplied)

NOTE

- Do not place the antenna cable close to the power cord. Keep it as far away as possible.
- If you experience poor FM reception, use an external antenna.

Connecting AUX Components

You can connect external devices you use for a short time (camcorder, game console, mobile equipment, etc.) to the front of this unit for convenience.



Camcorder

Connections

Connecting the USB

You can use the USB connection to play multimedia files (MP3, JPEG, DivX, etc) downloaded from the USB storage device.

1. In Stop mode, connect the USB storage device to the USB port on the front panel of the product.
2. Use the front USB PLAY ►, or STOP ■ on the front panel to play, pause or stop playing the music.



Notes on USB connection

Supported devices: USB storage media, MP3 player, digital camera

- 1) If a folder or file name is longer than 10 characters, it may not properly display or operate.
- 2) A subtitle file bigger than 300KB may not be properly displayed.
- 3) A certain USB/digital camera device, USB card reader is not supported.
- 4) FAT16 and FAT32 file systems are supported.
- 5) Photo (JPEG), music (MP3, WMA) and video file should have their names in English or Korean. Otherwise, the file may not played.
- 6) Connect directly to the product's USB port. Connecting through another cable may raise problems with USB compatibility.
- 7) Inserting more than one memory device to a multi-card reader may not operate properly.
- 8) PTP protocol for digital camera is not supported.
- 9) Do not disconnect USB device during a "Reading" process.
- 10) Bigger the image resolution, the longer the delay to displaying.
- 11) DRM applied MP3/WMA or video files downloaded from a commercial site are not played back.
- 12) External HDD device is not supported.
- 13) The maximum current supported by the USB port for an external device is 500 mA (at 5V DC).
- 14) Supported file formats

Format	Still Picture	Music		Movie	
File name	JPG	MP3	WMA	WMV	DivX
File extension	JPG .JPEG	.MP3	.WMA	.WMV	.AVI
Bitrate	-	80~320 kbps	56~128 kbps	4Mbps	4Mbps
Version	-	-	V8	V1,V2, V3,V7	DivX3.11~ DivX5.1, XviD
Pixel	640x480	-	-	720x480	

Setup

For your convenience, you can set this AV receiver's features for the best use.

Before Using the AV Receiver

Turning On/Off

Connect the power plug to the outlet.

This unit will set to Standby mode.

Press the **POWER** button on the main unit.

- This unit will be turned on.
- You can also turn the unit on/off by pressing the **POWER** button on the remote control.

Remote Control Functions

You can operate your AMP (this AV receiver)/ TV and BD(Samsung only)/DVD player with this remote control. See pages 35 ~ 36 for more details.

To Select a Function

Press the **INPUT SELECT** button on the remote control.

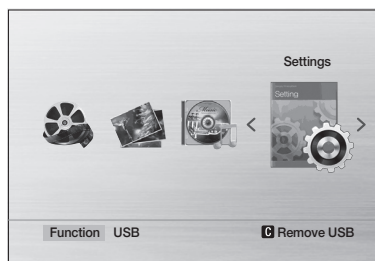
- Each time you press this button, **FM** ➔ **DVD** ➔ **AUX** ➔ **TV** ➔ **USB** will be selected in turn.

Home Menu

Press the **MENU** button to return to **USB FUNCTION** from any other functions. Then, you will see the Home Menu screen.

NOTE

- For using the OSD menus, refer to Setting the setup menu.
- The OSD (On Screen Display) may change in this product after you upgrade the software version.



Setup

Selecting Digital/HDMI/Analog

You can listen to sound of analog, HDMI, optical input using this unit.

1. Press the **INPUT SELECT** button on the remote control to select a desired function (DVD, AUX, TV). See page 10.
2. Press the **AUDIO ASSIGN** button on the remote control to select the audio input source of the external device you have connected.
 - Each time you press this button, the input mode changes as follows:



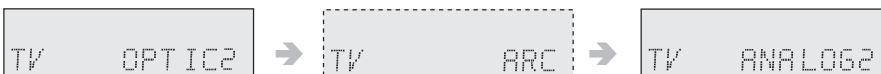
• For BD/DVD function



• For AUX function



• For TV function



• For USB function

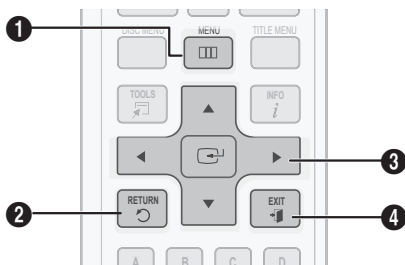


NOTE

- You can also change the input mode by turning the **AUDIO ASSIGN** button on the front of your AV Receiver.
- You can enjoy Dolby Digital or DTS if you connect the digital audio output jack of an external audio component to the optical or coaxial digital audio input jack on the main unit.
- For the TV function, the TV ARC menu will be displayed only if an ARC-compliant TV is connected.

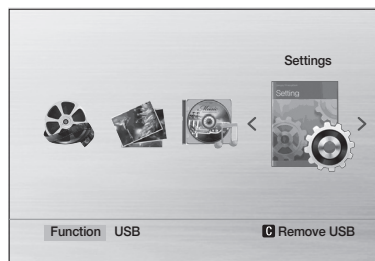
Setting the Setup menu

The access step may differ depending on the selected menu. The GUI (Graphical User Interface) in this manual may differ, depending on the firmware version.



- | | |
|---|---|
| 1 | MENU BUTTON : Display the home menu. |
| 2 | RETURN BUTTON : Return to the previous setup menu. |
| 3 | ENTER / DIRECTION BUTTON
Move the cursor and select an item.
Select the currently selected item.
Confirm the setting. |
| 4 | EXIT BUTTON : Exit the setup menu. |

1. Press the **POWER** button.
2. Press the **MENU** button on the remote control.
3. Press the **◀▶** buttons to select **Settings**, then press the **ENTER** button.
4. Press the **▲▼** buttons to select the desired menu, then press the **ENTER** button.
5. Press the **▲▼** buttons to select the desired sub-menu, then press the **ENTER** button.
6. Press the **▲▼** buttons to select the desired item, then press the **ENTER** button.
7. Press the **EXIT** button to exit the setup menu.



Display

TV Aspect (USB Playback only)

Depending on the type of television you have, you may want to adjust the screen setting.

• 4:3 Pan-Scan	• 4:3 Letter Box	• 16:9 Wide
Select when you connect the product to a 4:3 TV screen. 16:9 content will have the extreme left and right portions cut off.	Select when you connect the product to a 4:3 TV screen. The product will display all content in its original aspect ratio. Content formatted in 16:9 will be displayed with black bars on the top and bottom.	Select when you connect the product to a 16:9 TV screen. All content will fill the full screen. Content formatted in 4:3 will be stretched.

Setup



NOTE

- When using HDMI, the screen is automatically converted to the 16:9 Wide mode and TV Aspect is deactivated.
- If a file is in the 4:3 ratio, you cannot view it in the wide screen.
- Since file are recorded in various image formats, they will look different depending on the software, the type of TV, and the TV aspect ratio setting.

BD Wise (Samsung products only)

BD Wise is Samsung's latest inter-connectivity feature. When you connect Samsung products with BD-Wise to each other via HDMI, the optimum resolution will be set automatically.

- **On** : The original resolution of the DVD disc will be output to the TV direct.
- **Off** : The output resolution will be fixed according to the Resolution previously set, regardless of the resolution of the disc.



NOTE

- For HDMI connection, the BD Wise setting of the source device will prevail over the setting of the main unit.
- This will optimize the picture quality according to the content (In the DVD disc, etc) that you want to play and the product or your BD Wise-compliant Samsung TV.
- If you want to change the resolution in BD Wise mode, you must set BD mode to Off in advance.
- BD Wise will be disabled if the product is connected to a device that does not support BD Wise.

Resolution

Sets the output resolution of the HDMI video signal.

The number in 576p(480p), 720p, 1080i and 1080p indicates the number of lines of video.

The i and p indicate interlace and progressive scan, respectively.

- **576p(480p)** : Outputs 576(480) lines of progressive video.
- **720p** : Outputs 720 lines of progressive video.
- **1080i** : Outputs 1080 lines of interlaced video.
- **1080p** : Outputs 1080 lines of progressive video.
- **BD Wise** : Automatically sets the optimal resolution when connected via HDMI to a TV with the BD Wise feature. (The BD Wise menu item appears only if BD Wise is set to On.)



NOTE

- If Composite is connected, the resolution supports only 576i(480i).
- 1080P may not appear depending on TV.

HDMI Format

You can optimize the Color setting from the HDMI output. Select a connected device Type.

- **Monitor** : Select if connected to a Monitor via HDMI.
- **TV** : Select if connected to a TV via HDMI.

Video Out Signal

Different countries apply different TV standard. You can select from NTSC or PAL.

- **NTSC** : You can select the NTSC video format
- **PAL** : You can select the PAL video format

Audio

Speaker Setting

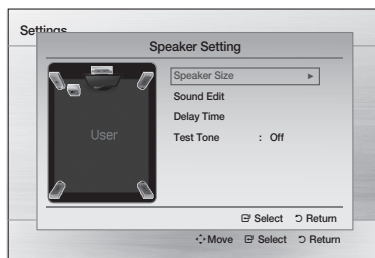
Speaker Size

You can set the Speaker Size of the Center and Surround Speakers, as well as Test Tone in this mode.

- For the Front, the mode is set to Small.
- For the Subwoofer, the mode is set to Present.
- For the Center and Surround, you can switch the mode to Small or None.
 - **Small** : Select this when using the speakers.
 - **None** : Select this when no speaker is connected.

NOTE

- The speaker mode may vary depending on the Dolby Pro Logic and Stereo settings.



Sound Edit

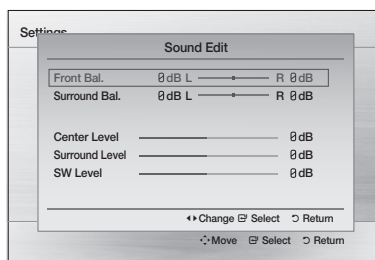
You can adjust the balance and level for each speaker.

Press the ▲▼ buttons to select and adjust the desired speaker.

Press the ◀▶ buttons to adjust the settings.

Adjusting Front/Surround Bal.

- You can select between 0 and -6.
- The volume decreases as you move closer to -6.



Adjusting Center/Surround/Subwoofer 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.

Delay Time

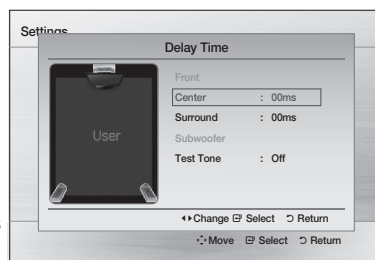
If the speakers cannot be placed at equal distances from the listening position, you can adjust the delay time of the audio signals for Surround speakers.

You can also set the Test Tone in this mode.

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 Center and Surround Speakers.



Setup

NOTE

- You can not set Center and Surround in this mode when their Speaker Size is set to NONE.

Test Tone

Use the Test Tone feature to check the speaker connections.

- Press the ◀▶ buttons to select **On**.
- The test tone will be sent to **Front Left → Center → Front Right → Surround Right → Surround Left → Subwoofer** in order.
To stop the test tone, press the **ENTER** button.



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.

- You can select either Full, 6/8, 4/8, 2/8, off.

Audio Sync

Video and audio sync may not match with digital TV. If this occurs, adjust the audio delay time to match the video

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

HDMI Audio

The audio signals transmitted over the HDMI Cable can be toggled On/Off.

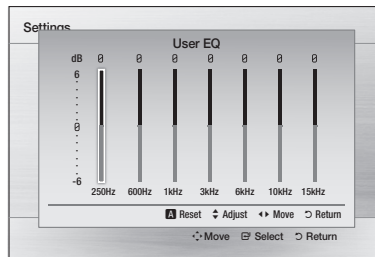
- **Off** : Video is transmitted over the HDMI connection cable only, and audio is output through the product speakers only.
- **On** : Both video and audio signals are transmitted over the HDMI connection cable, and audio is output through your TV speakers only.

NOTE

- The default setting of this function is HDMI Audio Off.
- HDMI Audio is automatically down-mixed to 2ch for TV speakers.
- When HDMI Audio is set to On, PL II/DSP EQ/P.BASS/3D SOUND doesn't work.
- With HDMI AUDIO set to 'On', the volume can be adjusted only using the TV remote control.
- If you select a different function, HDMI AUDIO will be deactivated accordingly.

User EQ

You can configure the equalizer settings manually to your preference.



Audio Return Ch.

You can enjoy TV sound from the Home Cinema speakers by using just one HDMI cable.

- **Off** : Turn the Audio Return Channel function off.
- **Auto** : Listen to TV sound through the Home Cinema speakers if your TV is compatible with the Audio Return Channel function.

NOTE

- When Anynet+ (HDMI-CEC) is Off, the Audio Return Channel function is not available.
- Using an ARC (Audio Return Channel)-uncertified HDMI cable may cause a problem in compatibility.
- ARC function is only available if an ARC-compliant TV is connected.

System

DivX(R) Registration

View DivX(R) VOD Registration Code to purchase and play DivX(R) VOD content.

NOTE

- This option is not activated if you select OK.To activate this option, please activate the DivX(R) Deactivation.
- Even after you reset the system, the settings of DivX Registration will not be reset.

DivX(R) Deactivation

Select this to get a new registration code.

Language

You can select the language you prefer for on-screen menu, disc menu, etc.

OSD Language	Select the language for the on-screen displays.
DivX Subtitle	Select the language for disc subtitles.

Support

Product Information

Provide the product information such as Model Code, MPEG Version, etc.

Operation

Using the Sound Modes

3D SOUND

Press the **3D SOUND** button.

- Each time you press this button, **3D SOUND ON** → **3D SOUND OFF** will be selected in turn.
- You can also select the 3D SOUND mode by pressing the **3D SOUND** button on the remote control.



NOTE

- The 3D sound effect will not be available for FM.

DSP (Digital Signal Processor)/EQ

Press the **DSP/EQ** button.

- Each time you press this button, **OFF** → **POPS** → **JAZZ** → **ROCK** → **USER** → **STUDIO** → **CLUB** → **HALL** → **MOVIE** → **CHURCH** → **GAME** → **CONCERT** → **STADIUM** → **OFF** will be selected in turn.
- You can also select the DSP/EQ mode by pressing the **DSP/EQ** button on the remote control.



NOTE

- The menu may vary depending on the region.
- The DSP/EQ function is only available in Stereo mode.
- The DSP/EQ function is not available while playing AC3 signal in 2.1 channel mode.

Dolby Pro Logic II Mode

Press the  **PL II** button.

- Each time you press this button, **MUSIC** → **MOVIE** → **PROLOGIC** → **MATRIX** → **STEREO** will be selected in turn.



NOTE

- You cannot use Dolby Pro Logic II mode for Analog multi channel signals.
- Pro Logic works with the audio signals with sampling frequencies of 32KHz, 44KHz or 48KHz.
- Before selecting Dolby Pro Logic II mode, connect your external device to the AUDIO INPUT jacks (L and R) on the product. If you connect to only one of the inputs (L or R), you cannot listen to surround sound.
- The Pro Logic II function is only available in Stereo mode.
- The Pro Logic II function is not available while playing AC3 signal in 2.1 channel mode.

Other Settings

P.BASS

Press the **P.BASS** button on the remote control.

- Each time you press this button, **P.BASS ON** → **P.BASS OFF** will be selected in turn.



NOTE

- The P.BASS function provides a bass boost to reinforce the low frequencies.
- The P.BASS function is only available with 2 channel LPCM sources such as MP3, DivX, CD and WMA.
- The P.BASS function does not work with 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 will be turned on.

S/W LEVEL

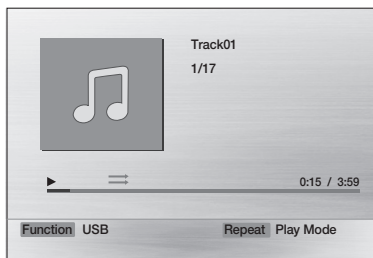
You can also press the **S/W LEVEL** button on the remote control and use the ◀ or ▶ buttons to adjust the level of subwoofer.

- You can set the between -6 and +6. Set it to the optimal status.

Operation

Audio USB (MP3/WMA) Playback

1. Connect the USB storage device to the USB port on the front panel of the product.
 - For the MP3/WMA file, press the ◀▶ buttons to select **Music**, then press the **ENTER** button.
 - Press the ▲▼◀▶ buttons to select a desired file and press the **ENTER** button.
 - Press the ◀▶ buttons to move to the previous/next pages.
2. Press the **STOP** (■) button to stop playback.



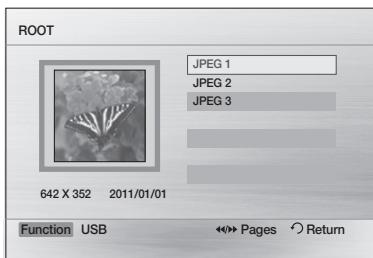
NOTE

- Some MP3/WMA file may not play, depending on the recording mode.
- Table of contents of a USB varies depending on the MP3/WMA track format recorded on the disc.
- WMA-DRM files cannot be played.

JPEG File Playback

Images captured with a digital camera or camcorder, or JPEG files on a PC can be stored on a USB and then played back with this product.

1. Connect the USB storage device to the USB port on the front panel of the product.
2. Press the ◀▶ buttons to select **Photos**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select the folder you want to play, and then press the **ENTER** button.
4. Press the ▲▼ buttons to select the photo you want to play, and then press the **ENTER** button.
 - The selected file will play and slide show will start.
 - To stop slide show, press the **PAUSE** (||) button.
 - You can view the previous/next file by pressing the ◀, ▶ buttons during the slideshow mode.



Rotate Function

Press the **GREEN(B)** or **YELLOW(C)** button during the PAUSE mode.

- **GREEN (B)** Button: Rotate 90° counterclockwise.
- **YELLOW(C)** Button: Rotate 90° clockwise.

NOTE

- The maximum resolutions supported by this product are 5120 x 3480 (or 19.0 MPixel) for standard JPEG files and 2048 x 1536 (or 3.0 MPixel) for progressive image files.

Listening to the Radio

You can listen to the radio by using either automatic or manual tuning.

1. Press the **INPUT SELECT** button on the remote control to select **FM**.
2. If you want to switch the tuning mode between Preset and Manual, use the **TUNING MODE** button in the front panel, or the **STOP** button on the remote control.
 - Each time you press this button, **PRESET → MANUAL**
3. Select a frequency (radio broadcast).
 - Preset tuning :
Use the **TUNING** dial on the front panel or press the **TUNING/CH** (**▼**, **▲**) buttons on the remote control to select a preferred frequency.
 - Manual tuning 1 (Automatic tuning) :
Press and hold the **TUNING/CH** (**▼**, **▲**) buttons on the remote control to automatically tune in a frequency.
 - Manual tuning 2 :
Press the **TUNING/CH** (**▼**, **▲**) buttons on the remote control to increase or decrease the frequency step by step.

To Listen in Mono/Stereo

Press the **MO/ST** button on the remote control.

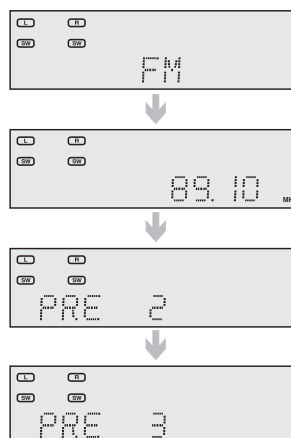
- Each time you press this button, **STEREO** or **MONO** will be selected in turn.
- If you select **MONO** in an area with weak reception, it will help to reduce noise.
- This function works only with the remote control.

Presetting Radio Stations

You can preset up to 15 FM stations.

E.g.: Setting station FM 89.10 in preset 2.

1. Press the **INPUT SELECT** button on the remote control to select **FM**.
2. Press the **TUNING/CH** (**▼**, **▲**) buttons on the remote control to select 89.10.
 - Refer to step 3 above to tune in automatically and manually.
3. Press the **MEMORY** button on the main unit.
 - You can also use the **TUNER MEMORY** button on the remote control.
 - Tuner number will blink on the display.
4. Press the **TUNING/CH** (**▼**, **▲**) buttons on the remote control to select preset 2.
 - You can select from presets 1 to 15.
5. Press the **MEMORY** button on the main unit.
 - Tuner number will disappear and station 89.10 will be saved in preset 2.
6. To preset other stations, repeat steps 2 to 5.



Operation

Convenient Functions

Sleep Timer Function

You can set the time that this unit will shut itself off.

Press the **SLEEP** button.

- SLEEP : OFF → SLP 10 → SLP 20 → SLP 30 → SLP 60 → SLP 90 → SLP 120 → SLP 150 will be selected in turn.

To check sleep timer

Press the **SLEEP** button.

- The remaining time before this unit will shut itself off is shown on the display.
- Pressing the button again changes the sleep time from what you set previously.

To cancel sleep timer

- Press the **SLEEP** button until **SLEEP OFF** appears on the display.



Mute Function

This function is useful when answering a doorbell or telephone call.

Press the **MUTE** button.

- **MUTE** appears on the display.

To output sound again

Press the **MUTE** button again or press the Volume button.

- **MUTE** will disappear and sound will output.



Adjust the Display

You can adjust the brightness of the display.

Press the **DIMMER** button.

- Each time you press this button, the brightness changes as follows : Dark(Light on) → Bright(Light off) → Dark(Light off) → Bright(Light on).

NOTE

- SLEEP, Mute can only be operated with the remote control.



Reset Function

When the Power is on,

In "No USB" mode, press and hold the **STOP** button to reset the system.

- **INIT** appears on the display.
- The unit will turn off after 5 seconds.

NOTE

- Using the RESET function will erase all stored settings.
- Do not use this unless necessary.



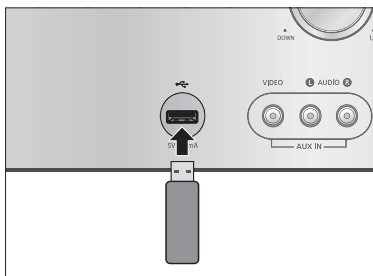
Operation

Software Upgrade

Samsung may offer upgrades for AV Receiver's firmware in the future.

Please visit Samsung.com or contact the Samsung call center at to receive information about downloading upgrades and using a USB drive. Upgrades will be possible by connecting a USB drive to the USB port located on your AV Receiver.

1. Insert a USB drive containing the firmware upgrade into the USB port on the front of the main unit.
2. Select a folder that contains the upgradeable firmware files. (This applies to all of Video, Photos and Music.)
3. The upgrade process will be performed automatically.
4. The main unit will turn off automatically after completing the firmware upgrade.
5. Remove the USB drive from the front USB port.
6. Turn the power on, switch to USB mode and wait until "No USB" appears on the front display.
7. Press the "STOP" button for 5 seconds on the remote control or the front panel while in "No USB" is displayed.
8. The set automatically powers off, and initialization is finished.



NOTE

- Please be careful not to disconnect the power or remove the USB drive while upgrades are being applied. When software is upgraded, settings you have made will return to their default (factory) settings. We recommend you write down your settings so that you can easily reset them after the upgrade.
- If you failed software upgrade, it is strongly recommended whole USB data format to FAT16 and retry software upgrade.
- The NTFS USB File System can not be supported.
- Depending on the manufacturer, the USB may not be supported.

Miscellaneous

Operating your TV with the Remote Control

1. Press the **POWER** button to turn on the TV.
2. Press the **TV** button to set the remote to TV mode.
3. Point the remote control toward the TV.
4. While holding down the **POWER** button, enter the code corresponding to your brand of TV.
 - If there is more than one code listed for your TV in the table, enter one at a time to determine which code works.
 - If the code matches the TV's code, the TV will be turned off.
5. If TV is turned on or off when you press the **POWER** button of the remote control, the setting is completed.
 - You can use the TV POWER, VOLUME, CHANNEL, MENU and Numeric buttons (0~9).

NOTE

- The remote control may not work on some brands of TVs. Also, some operations may not be possible depending on your brand of TV.
- The remote control will work with Samsung TVs by default.

TV Brand Code List

Brand	Code	Brand	Code	Brand	Code
Admiral (M.Wards)	56, 57, 58	Inkel	45	Realistic	03, 19
A Mark	01, 15	JC Penny	56, 59, 67, 86	Sampo	40
Anam	01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14	JVC	70	Samsung	00, 15, 16, 17, 40, 43, 46, 47, 48, 49, 59, 60, 98
AOC	01, 18, 40, 48	KTV	59, 61, 87, 88	Sanyo	19, 61, 65
Bell & Howell (M.Wards)	57, 58, 81	KEC	03, 15, 40	Scott	03, 40, 60, 61
Brocsonic	59, 60	KMC	15	Sears	15, 18, 19
Candle	18	LG (Goldstar)	01, 15, 16, 17, 37, 38, 39, 40, 41, 42, 43, 44	Sharp	15, 57, 64
Cetronic	03	Luxman	18	Signature 2000 (M.Wards)	57, 58
Citizen	03, 18, 25	LXI (Sears)	19, 54, 56, 59, 60, 62, 63, 65, 71	Sony	50, 51, 52, 53, 55
Cinema	97	Magnavox	15, 17, 18, 48, 54, 59, 60, 62, 72, 89	Soundesign	03, 40
Classic	03	Marantz	40, 54	Spectricon	01
Concerto	18	Matsui	54	SSS	18
Contec	46	MGA	18, 40	Sylvania	18, 40, 48, 54, 59, 60, 62
Coronado	15	Mitsubishi/ MGA	18, 40, 59, 60, 75	Symphonic	61, 95, 96
Craig	03, 05, 61, 82, 83, 84	MTC	18	Tatung	06
Croslex	62	NEC	18, 19, 20, 40, 59, 60	Techwood	18
Crown	03	Nikei	03	Teknika	03, 15, 18, 25
Curtis Mates	59, 61, 63	Onking	03	TMK	18, 40
CXC	03	Onwa	03	Toshiba	19, 57, 63, 71
Daewoo	02, 03, 04, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 34, 35, 36, 48, 59, 90	Panasonic	06, 07, 08, 09, 54, 66, 67, 73, 74	Vidtech	18
Daytron	40	Penney	18	Videch	59, 60, 69
Dynasty	03	Philco	03, 15, 17, 18, 48, 54, 59, 62, 69, 90	Wards	15, 17, 18, 40, 48, 54, 60, 64
Emerson	03, 15, 40, 46, 59, 61, 64, 82, 83, 84, 85	Philips	15, 17, 18, 40, 48, 54, 62, 72	Yamaha	18
Fisher	19, 65	Pioneer	63, 66, 80, 91	York	40
Funai	03	Portland	15, 18, 59	Yupiteru	03
Futurtech	03	Proton	40	Zenith	58, 79
General Electric (GE)	06, 40, 56, 59, 66, 67, 68	Quasar	06, 66, 67	Zonda	01
Hall Mark	40	Radio Shack	17, 48, 56, 60, 61, 75	Dongyang	03, 54
Hitachi	15, 18, 50, 59, 69	RCA/Proscan	18, 59, 67, 76, 77, 78, 92, 93, 94		

Miscellaneous

Operating your DVD or BD Player with the Remote Control

1. Press the **POWER** button to turn on the DVD (BD) player.
2. Press the **DVD/BD** button on the remote control to set the remote to DVD (BD) mode.
3. Point the remote control toward the DVD (BD).
4. While holding down **POWER** button, enter the code corresponding to your brand of DVD (BD).
 - If there is more than one code listed for your DVD (BD) in the table, enter one at a time to determine which code works.
 - If the code matches the DVD (BD)'s code, the DVD (BD) will be turned off.
5. If DVD (BD) is turned on or off when you press the **POWER** button of the remote controller, the setting is completed.
 - You can use DVD (BD) POWER, PLAY, PAUSE, STOP, SKIP, MENU and Numeric buttons (0~9).



NOTE

- The remote control may not work on some brands of DVD.
Also, some operations may not be possible depending on your brand of DVD.
- The remote control will work with Samsung DVD (BD) by default.

DVD Brand Code List

Brand	Code Number	Brand	Code Number	Brand	Code Number
DENON	003, 032	ONKYO	004, 014	TOSHIBA	004, 018
DOONON	019	OPTIMUS	011	YAMAHA	009, 033
DMTECH	017	PANASONIC	021	ZENITH	004, 024
FISHER	002	PROSCAN	006	TAEGWANG	026
GE	006	PHILIPS	004, 023	PS2	028
HARMAN/KARDON	012	PIONEER	007, 011, 022, 025	X-BOX	029
JVC	010, 013	RCA	006	APEX	030
KENWOOD	008	SAMSUNG	000, 027	Marantz	031
LG	001	SANYO	002		
MAGNAVOX	004	SONY	015, 020		
MITSUBISHI	005, 016	THETA DIGITAL	011		

BD Player Brand Code List

Brand	Code Number
SAMSUNG	000, 001, 002, 003, 004



NOTE

- The remote control will control Samsung BD players only.

Other Information

Troubleshooting

Before requesting service, please check the following.

Symptom	Check	Remedy
The unit will not turn on.	Is the power cord plugged into the outlet?	Connect the power plug to the outlet.
A function does not work when the button is pressed.	Is there static electricity in the air?	Disconnect the power plug and connect it again.
Sound is not produced.	- Are the speakers and external components connected properly? - Is the Mute function on? - Is the volume set to minimum?	- Connect them correctly. - Press the MUTE button to cancel the function. - Adjust the volume.
Picture does not appear on a TV when the function is selected.	Is the external component connected properly?	Connect it correctly.
Remote controller does not work.	- Are the batteries drained? - Is the distance between remote control and main unit too great?	- Replace with new batteries. - Operate at close distance.
The sound from the left/right channels is reversed.	Are the left/right speaker or left/right input/output cables connected properly?	Check the left/right channel and connect it/them correctly.
Can't receive radio broadcasts.	Is FM antenna connected properly?	- Connect the antenna correctly. - If the input strength of antenna signal is weak, install the FM antenna in a place with good reception.
There is no sound from surround speakers.	- Are the surround speakers connected properly? - Is SR (surround) incorrectly set to NONE in the Speaker Size? - Is surround mode set to stereo?	- Refer to page 14 to connect them properly. - Refer to page 25 to select SMALL or NONE.
Can't select Dolby Pro Logic II mode.	Is the input signal selected properly?	Only 2 channel signal can select Dolby Pro Logic II mode. (ex:PCM, 2 channel analog input signal.)

Other Information

Product Protection Function

Heat protection

- The protection function will come on if the main unit or power transformer overheats.

"PROTECT" will appear in the display .

This function will come on :

- If speaker terminal is shorted
- If speaker cable is shorted

If there is no problem when you turn the unit on again after turning it off, PROTECT mark will disappear on the display and the unit will work properly.

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Specifications

GENERALZ	Weight	5.4 Kg
	Dimensions (W x H x D)	429.2 x 165.1 x 360 mm
	Operating temperature range	+5°C~+35°C
	Operating humidity range	10%~75%
FM TUNER	Frequency response	87.5~108.0MHz
	Usable sensitivity	12dBf
	S/N ratio	MONO/STEREO 60dB/60dB
	Distortion	MONO/STEREO 0.3/0.8%
	Stereo separation	30dB
	Tuner output level	1kHz, 75kHz Dev
AMPLIFIER	Rated output	20Hz~20kHz/THD = 10%
	Front speaker (left+right)	4 Ω 150W/CH
	Center speaker	4 Ω 150W/CH
	Surround speaker (left+right)	4 Ω 150W/CH
	Double subwoofer	4 Ω 150W/CH
	Input sensitivity/impedance	550mV/47k Ω
	S/N ratio (analog input)	65dB
	Separation (1kHz)	55dB
FREQUENCY RESPONSE	Analog input	20Hz~20kHz($\pm$ 3dB)
	Digital input/96kHz PCM	20Hz ~44kHz($\pm$ 3dB)
HDMI	Input	Compatible 1080p
	Output	Compatible 1080p
VIDEO OUTPUT	TV format	NTSC/PAL
	Input level/impedance	1Vp-p/75 Ω
	Output level/impedance	1Vp-p/75 Ω
	Video frequency response	5Hz to 10kHz(-3dB)
	S/N Ratio	60dB

* S/N Ratio, Distortion, Separation and Usable sensitivity are based on measurement using AES (Audio Engineering Society) guidelines.

- Samsung Electronics Co., Ltd reserves the right to change the specifications without notice.

- Weight and dimensions are approximate.

- Design and specifications are subject to change without prior notice.

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If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

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Code No. AH68-02342K