

User manual

5.1CH Blu-ray™

Home Entertainment System



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

CAUTION

RISK OF ELECTRIC SHOCK. DO NOT OPEN

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



Class II product : This symbol indicates that it does not require a safety connection to electrical earth (ground).



AC voltage : This symbol indicates that the rated voltage marked with the symbol is AC voltage.



DC voltage : This symbol indicates that the rated voltage marked with the symbol is DC voltage.



Caution, Consult instructions for use : This symbol instructs the user to consult the user manual for further safety related information.

- The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of this apparatus, and to protect it from overheating, these slots and openings must never be blocked or covered.
 - Do not place this apparatus in a confined space, such as a bookcase, or built-in cabinet, unless proper ventilation is provided.
 - Do not place this apparatus near or over a radiator or heat register, or where it is exposed to direct sunlight.
 - Do not place vessels (vases etc.) containing water on this apparatus. A water spill can cause a fire or electric shock.
- Do not expose this apparatus to rain or place it near water (near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.). If this apparatus accidentally gets wet, unplug it and contact an authorized dealer immediately.
- This apparatus uses batteries. In your community, there might be environmental regulations that require you to dispose of these batteries properly. Please contact your local authorities for disposal or recycling information.
- Do not overload wall outlets, extension cords or adaptors beyond their capacity, since this can result in fire or electric shock.



This symbol indicates that high voltage is present inside. It is dangerous to make any kind of contact with any internal part of this product.



This symbol indicates that this product has included important literature concerning operation and maintenance.

- Route power-supply cords so that they are not likely to be walked on or pinched by items placed on or against them. Pay particular attention to cords at the plug end, at wall outlets, and the point where they exit from the apparatus.
- To protect this apparatus from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the set due to lightning and power line surges.
- Before connecting the AC power cord to the DC adaptor outlet, make sure the voltage designation of the DC adaptor corresponds to the local electrical supply.
- Never insert anything metallic into the open parts of this apparatus. Doing so may create a danger of electric shock.
- To avoid electric shock, never touch the inside of this apparatus. Only a qualified technician should open this apparatus.
- Make sure to plug the power cord in until it is firmly seated. When unplugging the power cord from a wall outlet, always pull on the power cord's plug. Never unplug by pulling on the power cord. Do not touch the power cord with wet hands.
- If this apparatus does not operate normally - in particular, if there are any unusual sounds or smells coming from it - unplug it immediately and contact an authorized dealer or service centre.
- Maintenance of Cabinet.
 - Before connecting other components to this product, be sure to turn them off.
 - If you move your product suddenly from a cold place to a warm place, condensation may occur on the operating parts and lens and cause abnormal disc playback. If this occurs, unplug the product, wait for two hours, and then connect the plug to the power outlet. Then, insert the disc, and try to play back again.

- Be sure to pull the power plug out of the outlet if the product is to remain unused or if you are leaving the house for an extended period of time (especially when children, elderly, or disabled people will be left alone in the house).
 - Accumulated dust can cause an electric shock, an electric leakage, or a fire by causing the power cord to generate sparks and heat or the insulation to deteriorate.
- Contact an authorized service centre for information if you intend to install your product in a location with heavy dust, high or low temperatures, high humidity, chemical substances, or where it will operate 24 hours a day such as in an airport, a train station, etc. Failing to do so may lead to serious damage of your product.
- Use only a properly grounded plug and wall outlet.
 - An improper ground may cause electric shock or equipment damage. (Class I Equipment only.)
- To turn this apparatus off completely, you must disconnect it from the wall outlet. Consequently, the wall outlet and power plug must be readily accessible at all times.
- Do not allow children to hang on the product.
- Store the accessories (battery, etc.) in a location safely out of the reach of children.
- Do not install the product in an unstable location such as a shaky self, a slanted floor, or a location exposed to vibration.
- Do not drop or strike the product. If the product is damaged, disconnect the power cord and contact a service centre.
- To clean this apparatus, unplug the power cord from the wall outlet and wipe the product using a soft, dry cloth. Do not use any chemicals such as wax, benzene, alcohol, thinners, insecticide, air fresheners, lubricants, or detergent. These chemicals can damage the appearance of the product or erase the printing on the product.
- Do not expose this apparatus to dripping or splashing. Do not put objects filled with liquids, such as vases on the apparatus.
- Do not dispose of batteries in a fire.
- Do not plug multiple electric devices into the same wall socket. Overloading a socket can cause it to overheat, resulting in a fire.
- There is danger of an explosion if you replace the batteries used in the remote with the wrong type of battery. Replace only with the same or equivalent type.

WARNING :

- TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES AND OTHER ITEMS WITH OPEN FLAMES AWAY FROM THIS PRODUCT AT ALL TIMES.
- To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.



CLASS 1 LASER PRODUCT

This product 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.

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

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Wiring the Main Power Supply Plug (UK Only)

IMPORTANT NOTICE : The mains lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and if it requires replacing, a fuse approved to BS1362 of the same rating must be used. Never use the plug with the fuse cover removed. If the cover is detachable and a replacement is required, it must be of the same colour as the fuse fitted in the plug. Replacement covers are available from your dealer. If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance. However, if there is no alternative to cutting off the plug, remove the fuse and then safely dispose of the plug. Do not connect the plug to a mains socket as there is a risk of shock hazard from the bared flexible cord. Never attempt to insert bare wires directly into a mains socket. A plug and fuse must be used at all times.

IMPORTANT : The wires in the mains lead are coloured in accordance with the following code:- BLUE = NEUTRAL BROWN = LIVE As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:-The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK. The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

IMPORTANT : DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH LETTER E OR BY THE EARTH SYMBOL , OR COLOURED GREEN OR GREEN AND YELLOW.

Getting Started

- Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance.
- An administration fee may be charged if either
 - a. an engineer is called out at your request and there is no defect in the product (i.e. where you have failed to read this user manual)
 - b. you bring the unit to a repair centre and there is no defect in the product (i.e. where you have failed to read this user manual).
- The amount of such administration charge will be advised to you before any work or home visit is carried out.

Check the box for the accessories and speaker components listed or shown below.

Accessories

- Remote Control
- Batteries (AAA size)
- User Manual



Power Cable



FM Antenna

Speaker Components



Front x 2
Surround x 2



Stand x 4



Screw (5x15) x 16



Stand Base x 4



Centre



Speaker Cable x 4



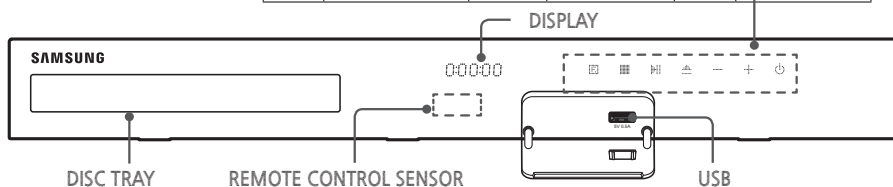
Subwoofer

Getting Started

Front Panel

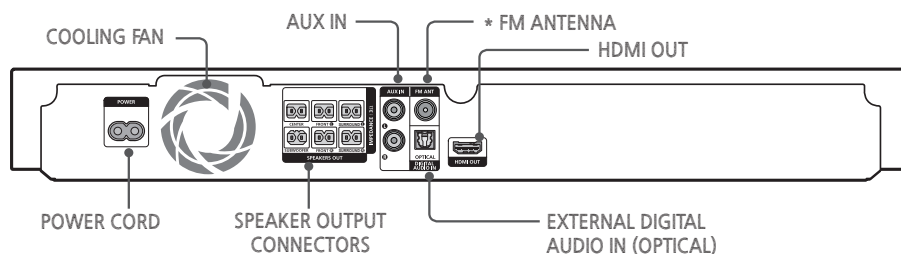
DISPLAY ICONS

	FUNCTION		STOP		PLAY/PAUSE
	OPEN/CLOSE		VOLUME CONTROL		POWER



- When the product is on, do not let children touch the product's surface. It will be hot.
- To upgrade the product's software through the USB jack, you must use a USB flash drive.
- When the product displays a Blu-ray Disc menu, you cannot start the movie by pressing the button on the product or the remote. To play the movie, you must select Play Movie or Start in the disc menu, and then press the button.
- If you are playing content from a USB device on your TV through the home cinema, you cannot select the **BD/DVD** mode with the **FUNCTION** button. To select the **BD/DVD** mode, stop the content you are playing on the TV, and then select the **BD/DVD** mode.

Rear Panel

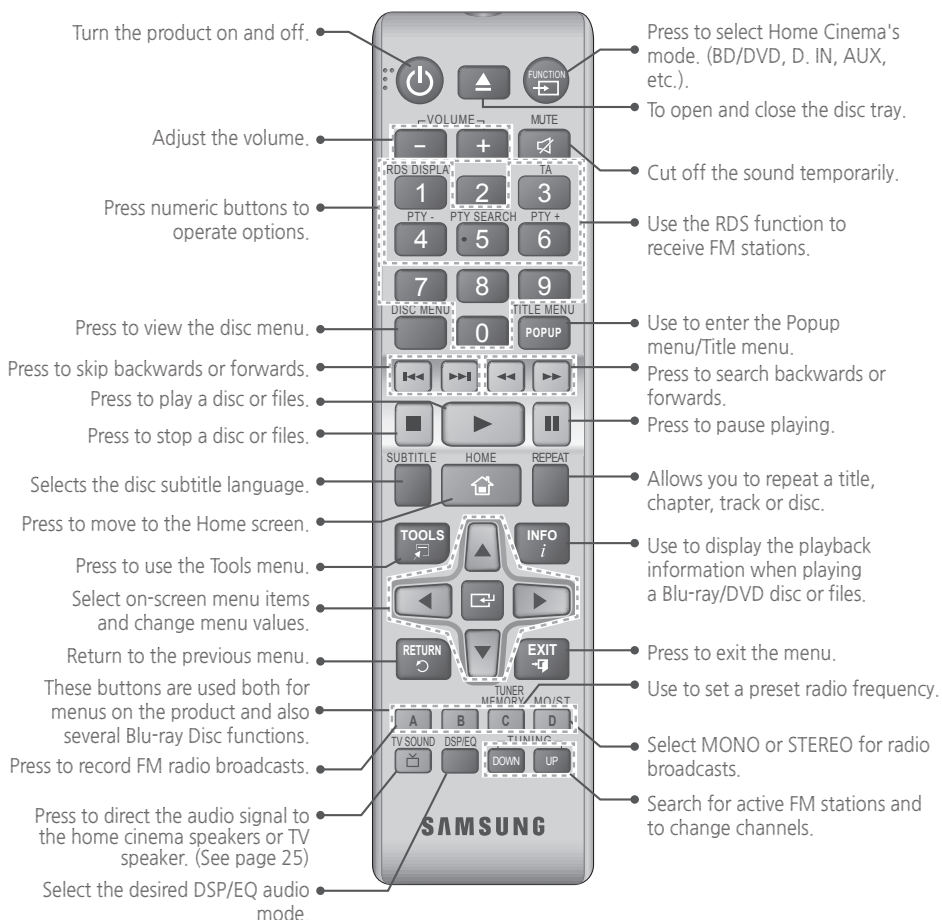


* Connecting the FM Antenna

- Connect the supplied FM antenna to the FM ANT Jack.
 - 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.
- Maintain a minimum of 10 cm of clear space on all sides of the home cinema to ensure adequate ventilation. Do not obstruct the cooling fan or ventilation holes.
 - This product does not receive AM broadcasts.

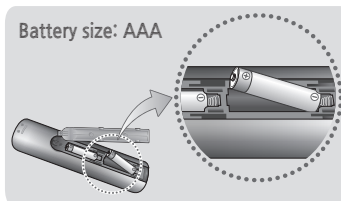
Remote Control

Tour of the Remote Control



Installing batteries in the Remote Control

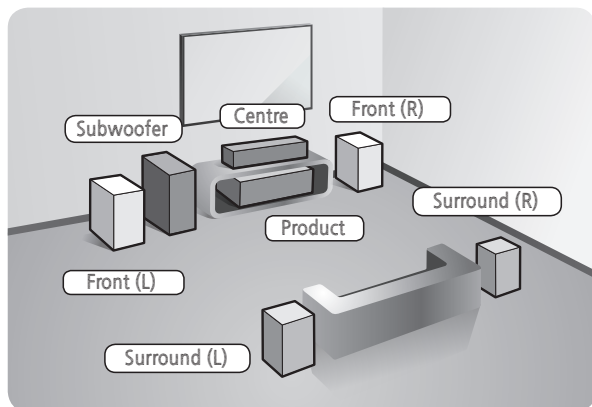
- ✎ Make sure to match the "+" and "-" ends of the batteries with the diagram inside the compartment.
- ✎ Assuming typical usage, the batteries last for about one year.
- ✎ The remote control can be used up to approximately 7 meters from the product in a straight line.



Connections

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

Connecting the Speakers



Position of the product

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

Selecting the Listening Position

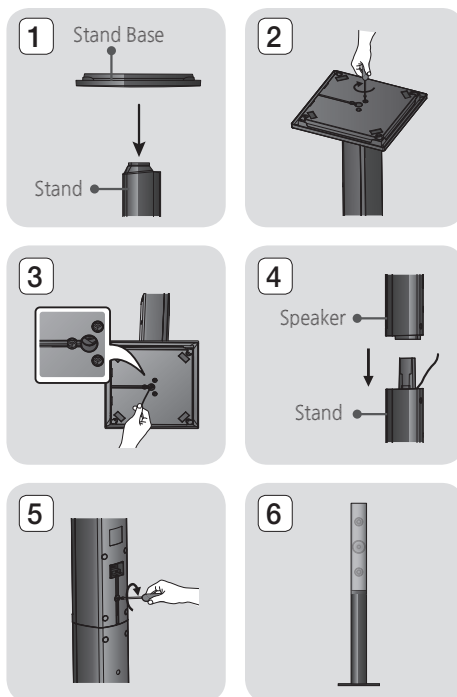
The listening position should be located about 2.5 to 3 times the TV's screen size away from the TV. For example, if you have a 46 inch screen, locate the listening position 2.92 to 3.50 meters from the screen.

Front Speakers	Place these speakers in front of your listening position, facing inwards (about 45°) toward you. Place the front speakers so that their tweeters will be at the same height as your ear. Align the front face of the front speakers with the front face of the centre speaker or place them slightly in front of the centre speakers.
Centre Speaker	It is best to install the centre speaker at the same height as the front speakers. You can also install it directly over or under the TV.
Surround Speakers	Place these speakers to the side of your listening position. If there isn't enough room, place these speakers so they face each other. Position them about 60 to 90cm above your ear, facing slightly downward. * Unlike the front and centre speakers, the surround speakers are used mainly for sound effects. Sound will not come from them all the time.
Subwoofer	The position of the subwoofer is not so critical. Place it anywhere you like.

- * The appearance of your speakers may differ from the illustrations in this manual.
- * Each speaker has a coloured label on its back or underside. Each cable has a single coloured band near its end. Match the band on each cable to the speaker label by colour, and then connect the cable to the speaker. See page 9 for exact instructions.

Installing the Speakers on the Tallboy Stand

1. Turn the Stand Base upside-down and connect it to the Stand.
2. Use the driver to combine the screws on the 3 marked holes.
3. Straighten a supplied speaker wire and put in the hole on the centre of Stand Base.
4. Connect the upper Speaker to the assembled Stand.
5. Insert a screw clockwise into the hole on the rear of the speaker using a screwdriver. And then connect a speaker cable.
6. This is the appearance after the speaker is installed. Follow this steps to install other speaker.

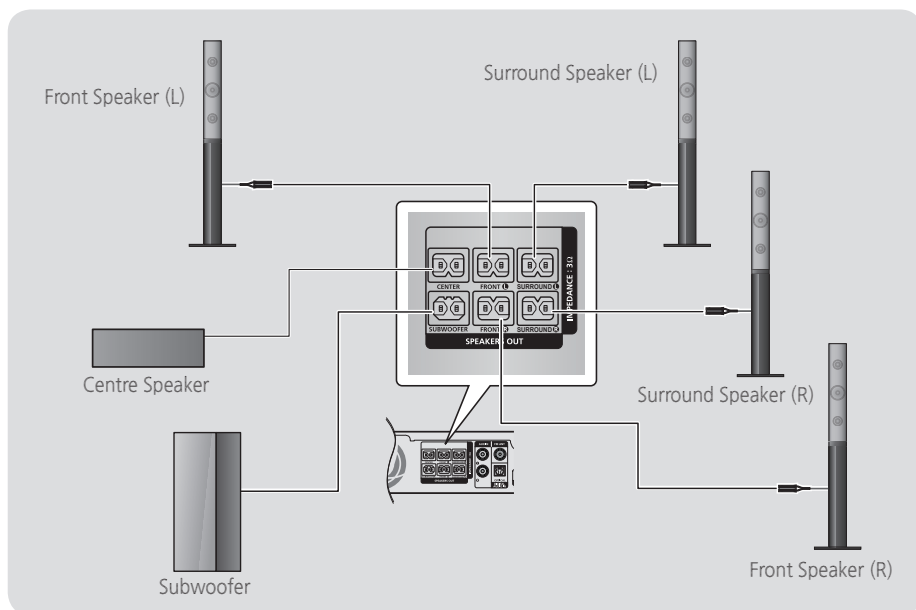


Speaker Cable Connections

* Front/Surround Speakers only

1. Match each speaker cable bundle to the correct speaker by matching the colour coded plug on each bundle to the coloured sticker on the bottom of each speaker.
2. Connect the speaker wire plugs from each speaker to the back of the product by matching the colours of the speaker plugs to the colours of the speaker jacks. When connecting, make sure to match label colour on the back of speaker.

Connections

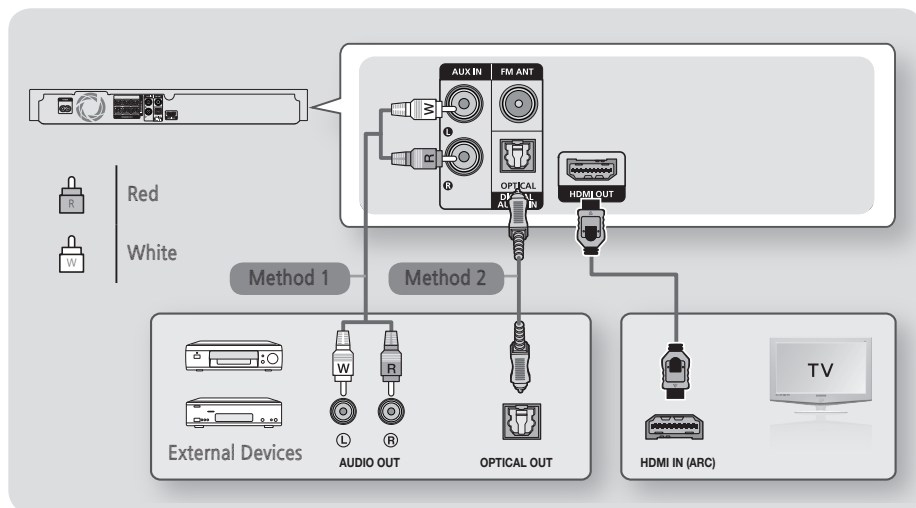


✎ If you place a speaker near your TV set, the screen colour may be distorted because of the magnetic field.

| CAUTION |

- ▶ If you want to install the speakers on the wall, fasten screws or nails (not provided) firmly to the wall wherever you want to hang a speaker, and then, using the hole in the rear of each speaker, carefully hang each speaker on a screw or nail.
- ▶ Do not let children play with or near the speakers. They could get hurt if a speaker falls.
- ▶ When connecting the speaker wires to the speakers, make sure that the polarity (+/-) is correct.
- ▶ Keep the subwoofer speaker out of reach of children to prevent children from inserting their hands or alien substances into the duct (hole) of the subwoofer speaker.
- ▶ Do not hang the subwoofer on the wall by the duct (hole).

Connecting to a TV and External Devices



Connecting to a TV

Connect an HDMI cable (not supplied) from the HDMI OUT jack on the back of the product to the HDMI IN jack on your TV. If the TV supports ARC, you can hear the audio from your TV through the home cinema with only this cable connected. See page 14 in this manual and the section on ARC in your TV's user's manual for details.

Connecting to External Devices

Two methods of connecting external devices to your home cinema are explained below.

Method 1 AUX IN : Connecting an External Analogue Component

Using an RCA audio cable (not supplied), connect the AUDIO In jack on the product to the AUDIO Out jack on the external analogue component. ➔ Select the **AUX** mode.

- Be sure to match the colours on the cable plugs to the colours on the input and output jacks.

Method 2 OPTICAL : Connecting an External Digital Audio Component

Use to connect the digital audio output of digital signal components such as Cable Boxes and Satellite Receivers (Set-Top-Boxes) to the home cinema. Using a digital optical cable (not supplied), connect the Optical Digital Audio In jack on the product to the Digital Optical Out jack of the external digital device using a digital optical cable. ➔ Select the **D, IN** mode.

- 🔧 To see video from your Cable Box/Satellite receiver, you must connect its video output directly to your TV.
- 🔧 This system supports Digital sampling frequencies of 32 kHz or higher from external digital components.
- 🔧 This system supports only DTS and Dolby Digital audio. MPEG audio, a bitstream format, is not supported.

Selecting an External Device to Use

To select an external device after you have connected it, press the **FUNCTION** button. Each time you press the button, the mode changes in this order : **BD/DVD → D, IN → AUX → FM**

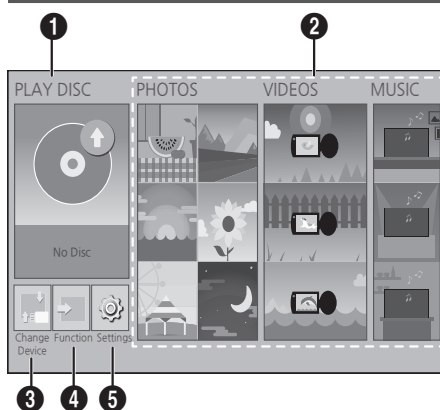
Settings

The Initial Settings Procedure

- The Home menu will not appear if you do not configure the initial settings.
 - The OSD (On Screen Display) may change in this product after you upgrade the software version.
 - The access steps may differ depending on the menu you selected.
1. Turn on your TV after connecting the product, and then turn on the product. When you turn on the product for the first time, the product automatically displays the **Setup** Language screen.
 2. Press the **▲▼** buttons to select the desired language, and then press the **OK** button.
 3. The **TV Aspect Ratio** screen appears. Press the **▲▼** buttons to select a TV aspect ratio, and then press the **OK** button.
You have four choices:
16:9 Original - For widescreen TVs. Displays widescreen pictures in their original 16:9 format and 4:3 pictures (the old, standard format) in 4:3 pillar box format with black bars on the left and right.
16:9 Full - For widescreen TVs. Displays widescreen pictures in their original 16:9 format and expands 4:3 pictures to fill the 16:9 screen.
4:3 Letter Box - For older, standard screen, analogue TVs. Displays 4:3 pictures in full screen and 16:9 pictures in letter box format that retains the 16:9 aspect ratio but puts black bars above and below the picture.
4:3 Pan-Scan - For older, standard screen, analogue TVs. Displays 4:3 pictures in full screen and 16:9 pictures in Pan-Scan format that fills the screen, but cuts off the left and right sides of the picture and enlarges the middle vertically.
 4. The "**Initial settings completed.**" screen appears, and then the Home screen appears.
-  If you want to display the **Setup** screen again and make changes, select the **Reset** option. (See page 16)

 If you use an HDMI cable to connect the product to an Anynet+ (HDMI-CEC)-compliant Samsung TV and 1.) You have set the **Anynet+ (HDMI-CEC)** feature to On in both the TV and the product and 2.) You have set the TV to a language supported by the product, the product will select that language as the preferred language automatically.

The Home Screen at a Glance



1 PLAY DISC

The disc currently in the tray is displayed.
Press **OK** to start playing the disc.

2 PHOTOS/VIDEOS/MUSIC

Play photos, videos, or music content from a Disc or a USB device.

3 Change Device

Displays a list of external devices connected to the main unit. Switch to the desired device.

4 Function

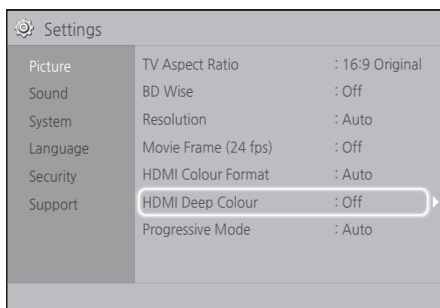
Use for switching to an external device or to the radio. You can use the remote control's **FUNCTION** button and the main unit's **FUNCTION** button for mode switching.

5 Settings

Set various functions to suit your personal preferences.

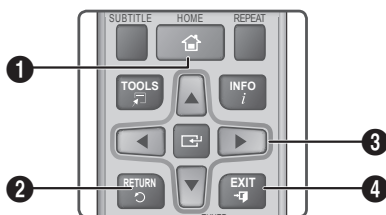
Accessing the Settings Screen

1. Select **Settings** on the Home screen, and then press . The **Settings** screen appears.



2. To access the menus, sub-menus, and options on the **Settings** screen, please refer to the remote control illustration. (See below)
-  If you leave the product in the stop mode for more than 5 minutes without using it, a screen saver appears on your TV. If the product is left in the screen saver mode for more than 20 minutes, the power automatically turns off.

Buttons on the Remote Control Used for the Settings Menu



1. **HOME Button** : Press to move to the Home screen.

2. **RETURN Button** : Press to return to the previous menu.

3. **(ENTER) / DIRECTION Button** :
 - Press     to move the cursor or select an item.
 - Press the  button to activate the currently selected item or confirm a setting.

4. **EXIT Button** : Press to exit the current menu.

Detailed Function Information

Each **Settings** function, menu item, and individual option is explained in detail on-screen. To view an explanation, use the     buttons to select the function, menu item, or option. The explanation will usually appear on the bottom of the screen.

A short description of each **Settings** function starts on this page. Additional information on some of the functions is also in the Appendix of this manual.

Settings Menu Functions

Picture

TV Aspect Ratio

Lets you adjust the output of the product to the screen size of your TV. (See page 27)

BD Wise

BD Wise is Samsung's latest inter-connectivity feature. When you connect a Samsung product and a Samsung TV with **BD Wise** to each other via HDMI, and **BD Wise** is on in both the product and TV, the product outputs video at the video resolution and frame rate of the Blu-ray/DVD Disc.

Resolution

Lets you set the output resolution of the HDMI video signal to **BD Wise**, **Auto**, **1080p**, **1080i**, **720p**, **576p/480p**. The number indicates the number of lines of video per frame. The i and p indicate interlaced and progressive scan, respectively. The more lines, the higher quality.

Settings

Movie Frame (24 fps)

Setting the **Movie Frame (24 fps)** feature to **Auto** lets the product adjust its HDMI output to 24 frames per second automatically for improved picture quality if attached to a 24 fps compatible TV.

- You can enjoy the **Movie Frame (24 fps)** feature only on a TV supporting this frame rate.
- Movie Frame is only available when the product is in the HDMI 1080p output resolution modes.

HDMI Colour Format

Lets you set the colour space format for the HDMI output to match the capabilities of the connected device (TV, monitor, etc).

HDMI Deep Colour

Lets you set the product to output video from the HDMI OUT jack with Deep Colour. Deep Colour provides more accurate colour reproduction with greater colour depth.

Progressive Mode

Lets you improve picture quality when viewing DVDs.

Sound

Speaker Settings

Lets you adjust the following speaker settings and turn the speaker test on and off so you can test the speakers.

- ✓ **Level:** Lets you adjust the relative loudness of each speaker from 6dB to -6dB. For example, if you like deep bass, you can increase the loudness of the subwoofer by 6dB.
- ✓ **Distance:** Lets you adjust the relative distance of each speaker from the listening position up to 9 meters. The farther the distance, the louder the speaker will be.
- ✓ **Speaker Test:** Lets you run the **Speaker Test** function so you can test your adjustments. Setting **Speaker Test to On** turns the **Speaker Test** on. Setting it to **Off** turns it off.

Speaker Selection

Lets you select which speakers you want active, either the TV's speakers or the home cinema's speakers.

Equaliser Mode

Set **Equaliser Mode** on to use the equaliser.

Equaliser Settings

Lets you set the equaliser.

- 🔧 **Equaliser Settings** only appears when **Equaliser Mode is On**.

Audio Return Channel

Lets you direct the sound from the TV to the Home Cinema speakers. Requires an HDMI connection and an **Audio Return Channel (ARC)** compatible TV.

- If **Audio Return Channel** is set to on and you are using an HDMI cable to connect the product to the TV, digital optical input will not work.
- If **Audio Return Channel** is set to **Auto** and you are using an HDMI cable to connect the product to the TV, ARC or digital optical input is selected automatically.

Digital Output

Lets you set the **Digital Output** to match the capabilities of the AV receiver you've connected to the product. For more details, please refer to the digital output selection table. (See page 32)

Dynamic Range Control

Lets you apply dynamic range control to Dolby Digital, Dolby Digital Plus, and Dolby TrueHD audio.

- ✓ **Auto:** Automatically controls the dynamic range of Dolby TrueHD audio, based on information in the Dolby TrueHD soundtrack. Also turns dynamic range control off for Dolby Digital and Dolby Digital Plus.
- ✓ **Off:** Leaves the dynamic range uncompressed, letting you hear the original sound.
- ✓ **On:** Turns dynamic range control on for all three Dolby formats. Quieter sounds are made louder and the volume of loud sounds is reduced.

Downmixing Mode

Lets you select the multi-channel downmix method that is compatible with your stereo system. You can choose to have the product downmix to **Normal Stereo** or to **Surround Compatible**.

Audio Sync

When the product is attached to a digital TV, lets you adjust the audio delay so that the audio syncs with the video. You can set the delay between 0 and 300 milliseconds.

System

Setup

Lets you re-run the **Setup** procedure. (See page 12)

Quick start

You can turn on the power quickly by decreasing the boot time.

- ✎ If this function is set to **On**, Standby power consumption will be increased. (About 12W ~ 20W)

Anynet+ (HDMI-CEC)

Anynet+ is a convenient function that offers linked operations with other Samsung products that have the Anynet+ feature and lets you control those products with one Samsung TV remote. To operate this function, you must connect this product to an Anynet+ Samsung TV using an HDMI cable.

BD Data Management

Enables you to manage the downloaded contents you accessed through a Blu-ray disc and stored on a flash drive.

You can check the device's information including the available storage size, delete the BD data, or change the Flash memory device.

DivX® Video On Demand

View DivX® VOD Registration Codes to purchase and play DivX® VOD contents.

Language

Lets you select the language you prefer for the **On-Screen Menu**, **Disc Menu**, etc.

- The selected language will only appear if it is supported on the disc.

Security

The default PIN is 0000. Enter the default PIN to access the security function if you haven't created your own PIN.

BD Parental Rating

Prevents playback of Blu-ray Discs with a rating equal to or above a specific age rating unless you enter the PIN.

DVD Parental Rating

Prevents playback of DVDs with a rating above a specific numerical rating unless you enter the PIN.

Change PIN

Changes the 4-digit PIN used to access security functions.

Support

Software Upgrade

For more information about this function, see page 18.

Contact Samsung

Provides contact information for assistance with your product.

Settings

Reset

Reverts all settings to their defaults. Requires that you enter your security PIN. The default security PIN is 0000.

Radio Setup

- To listen to the radio, you must connect the supplied FM antenna.

Operating the Radio with the Remote Control

1. Press the **FUNCTION** button to select **FM**.
2. Tune to the desired station.
 - **Preset Tuning 1** : Press the  button to select **PRESET**, and then press the **TUNING UP, DOWN** button to select a preset station.
 - Before you can tune to preset stations, you must add preset stations to the product's memory.
 - **Manual Tuning** : Press the  button to select **MANUAL**, and then press the **TUNING UP, DOWN** button to tune in to a lower or higher frequency.
 - **Automatic Tuning** : Press the  button to select **MANUAL**, and then press and hold the **TUNING UP, DOWN** button for a few seconds to automatically search the band.

Selecting Mono or Stereo

Press the **MO/ST** button.

- Each time you press the button, 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 into memory.

1. Press the **FUNCTION** button to select **FM**.
2. Press the **TUNING UP, DOWN** button to scroll the FM frequencies, and then select <89.10>.
3. Press the **TUNER MEMORY** button (the yellow C button at the bottom of the remote).

4. Press the **TUNER MEMORY** button again within about 5 seconds. The station is stored in memory.

 If you press the **TUNER MEMORY** button repeatedly without changing the station, the inputted station may be overwritten.

5. To preset another station, repeat steps 2 to 4.
 - To tune in to a preset station, press the **TUNING UP, DOWN** button.

 To delete all Preset FM stations at once, press the **TITLE MENU** button for about 5 seconds in FM Manual mode until **DEFAULT PRESET** appears on the display.

Recording FM Radio

You can record your favourite radio broadcast on a USB storage device.

1. Insert a USB device into the USB jack on the front of the product.
2. Press the **FUNCTION** button to select **FM**, and then press the **TUNING UP, DOWN** button to select the station you want to record.
3. Press the **RED (A)** button to start recording. The recording process begins.
 - The recorded time is displayed on the left and the recording time still available, based on the amount of free space in the USB storage device, is displayed on the right.
4. Press the **EXIT** button to finish your recording. The recording is stopped and saved as an .mp3 file at the same time. To play the recorded file, refer to "Playing Files on a USB Device".

 The recorded file is saved in the **Tuner** folder which is created automatically.

 Only the  (**OPEN/CLOSE**),  (**POWER**), **EXIT**, **MUTE**, and **VOLUME +/-** buttons are operable while FM radio is being recorded.

 If you don't press any buttons while recording, the screen saver will be enabled.

 Sound effects, such as **DSP, EQ**, etc., are not recorded during FM radio recording.

 The radio is recorded at a set, default volume even if you change the volume or press the **MUTE** button during the recording process.

- ✎ If you remove the USB device or Power Cable during the recording process, the portion of the file which has already been recorded may not play back.
- ✎ Recording will not start if the remaining free space in the USB storage device is less than 2MB.
- ✎ If the USB device is removed or has insufficient space (under 2MB), the appropriate message is displayed and the recording stops.

About RDS Broadcasting

Using the RDS (Radio Data System) to receive

FM stations

RDS allows FM stations to send an additional signal along with their regular program signals.

For example, the stations send their station names, as well as information about what type of program they broadcast, such as sports or music, etc.

When tuned to an FM station which provides the RDS service, the RDS indicator lights up on the display.

Description on RDS function

- PTY (Program Type) : Displays the type of program currently being broadcast.
- PS NAME (Program Service Name) : Indicates the name of broadcasting station and is composed of 8 characters.
- RT (Radio Text) : Decodes the text broadcast by a station (if any) and is composed of maximum 64 characters.
- CT (Clock Time) : Decodes the real time clock from the FM frequency. Some stations may not transmit PTY, RT or CT information therefore this may not be displayed in all cases.
- TA (Traffic Announcement) : TA ON/OFF it shows that the traffic announcement is in progress.
- ✎ RDS may not operate correctly if the station tuned is not transmitting RDS signal properly or if the signal strength is weak.

To show the RDS signals

You can see the RDS signals the station sends on the display.

Press the RDS DISPLAY button while listening to an FM station.

- Each time you press the button, the display change to show you the following information :
PS NAME → RT → CT → Frequency

PS (Program Service)	While searching, <PS NAME> appears and then the station names will be displayed. <NO PS> appears if no signal is sent.
RT (RadioText)	While searching, <RT> appears and then text messages the station sends will be displayed. <NO RT> appears if no signal is sent.
Frequency	Station frequency (non-RDS service)

About characters shown in the display

When the display shows PS, or RT signals, the following characters are used.

- The display window cannot differentiate upper case and lower case letters and always uses upper case letters.
- The display window cannot show accented letters, <A,> for instance, may stands for accented <A's> like <A, Ä, Å, Æ, Å and Å.>

PTY (Program Type) indication and

PTY-SEARCH function

One of the advantages of the RDS service is that you can locate a particular kind of program from the preset channels by specifying the PTY codes.

To search for a program using the PTY codes

- Before you start!
 - The PTY Search is only applicable to preset stations.
 - To stop searching any time during the process, press **■** button while searching.
 - There is a time limit in doing the following steps. If the setting is cancelled before you finish, start from step 1 again.

Settings

- When pressing the buttons on the primary remote control, make sure that you have selected the FM station using the primary remote control.



1. Press the **PTY SEARCH** button while listening to an FM station.
2. Press the **PTY-** or **PTY+** button until the PTY code you want appears on the display.
 - The display gives you the PTY codes described to the right.
3. Press the **PTY SEARCH** button again, while the PTY code selected in the previous step is still on the display.
 - The centre unit searches 15 preset FM stations, stops when it finds the one you have selected, and tunes in that station.

Upgrading Software

The **Software Upgrade** menu allows you to upgrade the product's software for performance improvements or additional services.

- Never turn the product off or back on manually during the update process.
- The update is complete when the product turns off after restarting. Press the **POWER** button to turn on the updated product for your use.

1. Visit Samsung's website on a computer and download the update package to a USB device.
-  Save the update package in the USB device's top-level folder. Otherwise, the product will not be able to locate the update package.
2. Connect the USB device with the update package to the product.

3. Select **Support > Software Upgrade >**

By USB. The software is updated using the update package on the USB device.

-  There should be no disc in the product when you upgrade the software using the USB Host jack.
-  When the software upgrade is done, check the software details in the **Software Upgrade** menu.

Playing Content

Your home cinema can play content located on Blu-ray/DVD/CD discs and USB devices.

Switching the Source Device

If two or more external devices are connected to the main unit, you can use any of the three methods described below to change the source device.

Method 1

From the Home screen, use the **▲▼◀▶** buttons to move to **Change Device**, and then press **⏏**.

The **Change Device** popup window will appear. Use the **▲▼** buttons to move to the desired device, and then press **⏏**.

Method 2

If you move to **PHOTOS**, **VIDEOS**, **MUSIC** or other file-based contents, a list of folders and files will appear. Press the **RED (A)** button to display the **Change Device** popup window, use the **▲▼** buttons to move to the desired device, and then press **⏏**.

Method 3

When a device is connected for the first time, a popup window appears. In the popup, you can change the source device by using the **◀▶** buttons, and then pressing **⏏**.

Playing Commercial Discs

1. Press the **▲** button to open the disc tray.
2. Place a disc gently into the disc tray with the disc's label facing up.



3. Press the **▲** button to close the disc tray. Playback starts automatically.
4. If playback does not start automatically, press the **▶** button on the remote.

Disc Storage & Management

• Holding Discs

- Fingerprints or scratches on a disc may reduce sound and picture quality or cause skipping.
- Avoid touching the surface of a disc where data has been recorded.
- Hold the disc by the edges so that fingerprints will not get on the surface.
- Do not stick paper or tape on the disc.



• Cleaning Discs

- If you get fingerprints or dirt on a 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.
- Disc Storage
 - Do not keep in direct sunlight.
 - Keep in a cool ventilated area.
 - Keep in a clean protective jacket and store vertically.



Playing a Disc with User Recorded Content

You can play multimedia files you have recorded on Blu-ray, DVD, or CD discs.

1. Place a user recorded disc into the disc tray with the disc's label facing up, and then close the tray.
2. Use the **◀▶** buttons to select the type of content you want to view or play - **PHOTOS**, **VIDEOS**, or **MUSIC** - and then press the **⏏** button.

OR

- 2¹. Select **PLAY DISC** from the Home screen. The **PLAY DISC** screen appears. Use the **▲▼** buttons to select the desired content type, **Photos**, **Videos**, or **Music**.

Playing Content

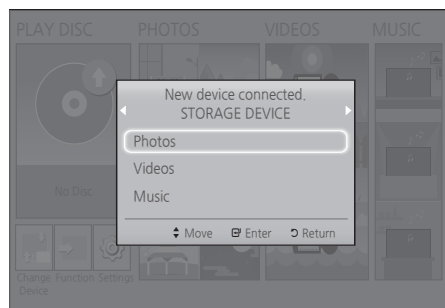
3. A screen appears listing the contents of the disc. Depending on how the contents are arranged, you will see either folders, individual files, or both.
4. If necessary, use the ▲▼◀▶ buttons to select a folder, and then press the  button.
5. Use the ▲▼◀▶ buttons to select a file to view or play, and then press the  button.
6. Press the RETURN button one or more times to exit a current screen, exit a folder, or to return to the Home screen. Press the EXIT button to return directly to the Home Screen.
7. Go to pages 21~25 for instructions that explain how to control playback of videos, music, and pictures on a disc.

Playing Files on a USB Device

There are two methods you can use to play or view multimedia files located on a USB device through your product.

Method 1 : If you connect a USB device while the product is turned on

1. The "New device connected." pop-up appears.



-  If the pop-up does not appear, go to Method 2.
2. Use the ▲▼ buttons to select **Photos**, **Videos**, or **Music** and then press the  button. Depending on how the contents are arranged, you will see either folders, individual files, or both.

3. If necessary, use the ▲▼◀▶ buttons to select a folder, and then press the  button.
4. Select a file to view or play, and then press the  button.
5. Press the RETURN button to exit a folder or the EXIT button to return to the Home screen.
6. Go to pages 21~25 for instructions that explain how to control playback of videos, music, and pictures on a USB device.

Method 2 : If the product is turned on after you connect a USB device

1. Turn the product on.
2. Press **Change Device** and select a USB device.
3. Use the ◀▶ buttons to select **PHOTOS**, **VIDEOS**, or **MUSIC** on the Home screen, and then press the  button.
4. If necessary, use the ▲▼◀▶ buttons to select a folder, and then press the  button.
5. Select a file to view or play, and then press the  button.
6. Press the RETURN button to exit a folder or the EXIT button to return to the Home screen.
7. Go to pages 21~25 for instructions that explain how to control playback of videos, music, and pictures on a USB device.

 If you insert a disc while playing a USB device, the device mode changes to "Disc" automatically.

Controlling Video Playback

You can control the playback of video content located on a Blu-ray/DVD disc or USB device. Depending on the disc or contents, some of the functions described in this manual may not be available.

Buttons on the Remote Control used for Video Playback



1 Playback related buttons

The product does not play sound in **Search**, **Slow**, or **Step** mode.

- To return to normal speed playback, press the button.

	Starts playback.
	Stops playback.
	Pauses playback.
Fast Motion Play	During playback, press the or button. Each time you press the or button, the playback speed will change.
Slow Motion Play	In pause mode, press the button. Each time you press the button, the playback speed will change.
Step Motion Play	In pause mode, press the button. Each time you press the button, a new frame appears.
Skip Motion Play	During playback, press the or button. Each time you press the or button, the disc moves to the previous or next chapter or file.

2 Using the disc menu, title menu, popup menu, and title list

DISC MENU

During playback, press this button to display the Disc menu.

TITLE MENU

During playback, press this button to display the Title menu.

- If your disc has a playlist, press the **GREEN (B)** button to go to the playlist.

POPUP MENU

During playback, press this button to display the Popup menu.

3 Repeat Playback

1. During playback, press the **REPEAT** button on the remote control.
2. Press the buttons to select **Off**, **Title**, **Chapter**, **All** or **Repeat A-B**, and then press the button.

□ Repeat A-B

1. Press the button at the point where you want repeat play to start (A).
2. Press the button at the point where you want repeat play to stop (B).
3. To return to normal play, press the **REPEAT** button again.
4. Press the button.

Depending on the disc, the screen may not display all repeat options.

The screen may not display **Chapter** or **Title** immediately. Continue to press the buttons until your choice is inside the applicable field.

To return to normal play, press the **REPEAT** button again, press the buttons to select **Off**, and then press the button.

The screen may not display **Repeat A-B** immediately. Continue to press the buttons until **Repeat A-B** is inside the applicable field.

You must set point (B) at least 5 seconds of playing time after point (A).

Playing Content

Using the TOOLS Menu

During playback, press the TOOLS button.

Title

If there is more than one title on a disk or device, lets you move to or select a desired title.

- ✎ When searching DVD title, in stop mode, enter the TOOLS button and title number (01,02,...) you want.

Playing Time

Lets you go to a specific playback point. Use the numeric buttons to input the playback point.

Repeat Mode

Lets you repeat a specific title, chapter, or marked section.

Audio Sync

Lets you adjust the audio delay so that the audio syncs with the video. You can set the delay from 0 to 300 milliseconds.

Equaliser Mode

Set **Equaliser Mode** on to use the equaliser.

Equaliser Settings

Lets you set the equaliser.

- ✎ **Equaliser Settings** only appears when **Equaliser Mode** is On.

Picture Settings

Lets you set the picture mode.

■ Mode

- **User** : Go to **Advanced Settings**, and then press the  button. Lets you adjust the **Brightness, Contrast, Colour, and Sharpness** functions manually.
- **Dynamic** : Choose this setting to increase sharpness.
- **Normal** : Choose this setting for most viewing applications.
- **Movie** : This is the best setting for watching movies.

Menu selections that appear only when a BD/DVD disc plays

Chapter

Lets you move to a chapter that you want to watch.

Audio

Lets you set the desired audio language.

Subtitle

Lets you set the desired subtitle language.

Angle

To view a scene from another angle. The **Angle** option displays the number of angles available to view (1/1, 1/2, 1/3, etc.).

BONUSVIEW Video

BONUSVIEW Audio

Lets you set the desired Bonusview option.

Menu selections that appear only while a file plays

Full Screen

Lets you set the desired full screen size. You can select **Original**, **Mode1** (larger), and **Mode2** (largest).

Information

Select to view video file information.

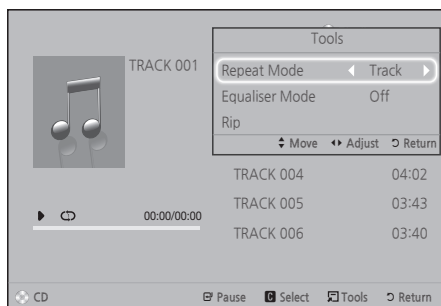
- ✎ Depending on the disc or storage device, the Tools menu may differ. All options may not be displayed.

Creating a Video Playlist

You can create a playlist of video files in nearly the same way you create a playlist of music files. See page 24 for instructions. Select video files instead of music files.

Playing a Pre-Recorded Commercial Audio Disc

1. Insert an Audio CD (CD-DA) or an MP3 Disc into the disc tray.
 - For an Audio CD (CD-DA), the first track will be played automatically. Tracks on a disc are played in the order in which they were recorded on the disc.
 - For an MP3 disc, press the ◀▶ buttons to select **MUSIC**, then press the  button.

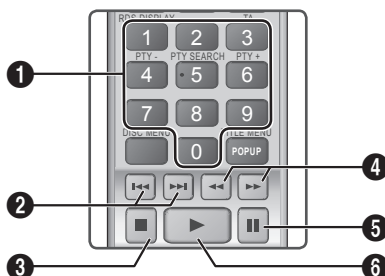


2. To play a particular track, use the ▲▼ buttons on the remote to select the track, and then press the  button.
-  For more information about playing music, see Controlling Music Playback below.

Controlling Music Playback

You can control the playback of music content located on a DVD, CD, or USB. Depending on the disc or contents, some of the functions described in this manual may not be available.

Buttons on the Remote Control used for Music Playback



1	Number buttons : During Playlist playback, press the desired track number. The selected track is played.
2	Skip : During playback, press the ◀▶ button to move to the previous or next music track.
3	 button : Stops a track.
4	Fast Play (Audio CD [CD-DA] only) : During playback, press the ◀▶ button. Each time you press the ◀▶ or ▶▶ button, the playback speed will change.
5	 button : Pauses a track.
6	 button : Plays the currently selected track.

Repeating Tracks

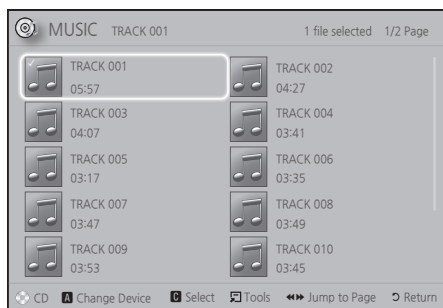
You can set the product to repeat tracks.

1. During music playback, press the **TOOLS** button.
2. Select **Repeat Mode**, then use the ◀▶ buttons to select **Off**, **Track** or **One, All** or **Shuffle**, and then press the  button.

Playing Content

Creating a Music Playlist

1. If you are playing music from a commercial CD or DVD, press the  or RETURN button. The Music List Screen appears. If you are creating a playlist from music on a user created disk or USB device, access the Music list as described on page 19 or 20.
2. Press the    buttons to move to a desired file, and then press the YELLOW (C) button to select it. Repeat this procedure to select additional files.
3. If you want to select all files, press the TOOLS button, use the   buttons to select **Select All**, and then press . If you want to deselect all files, press the TOOLS button, select **Deselect All**, and then press .



4. To remove a file from the **Playlist**, move to the file, and then press the YELLOW (C) button.
 5. Press the  button to play the selected files. The **Playlist** screen appears.
 6. To go to the Music List, press the  or RETURN button.
 7. To go back to the **Playlist**, press the .
-  You can create a playlist with up to 99 tracks on Audio CDs (CD-DA).
 -  If you go to the Music List from the **Playlist**, and then return to the **Playlist**, the **Playlist** will start playing again from the beginning.

Ripping

1. Insert a USB device into the USB jack on the front of the product.
 2. With the Playback screen displayed, use the   buttons to select a track, and then press the YELLOW (C) button. A check appears to the left of the track.
 3. Repeat Step 2 to select and check additional tracks.
 4. To remove a track from the list, move to the track, and then press the YELLOW (C) button again. The check on the track is removed.
 5. When done, press the TOOLS button. The **Tools** menu appears.
 6. Use the   buttons to select **Rip**, and then press the  button. The **Rip** screen appears.
 7. Use the   buttons to select the device to store the ripped files on, and then press the  button.
-  Do not disconnect the device while ripping is in progress.
8. If you want to cancel ripping, press the  button, and then select **Yes**. Select **No** to continue ripping.
 9. When ripping is complete, the "**Ripping completed.**" message appears.
 10. Press the  button to go back to the Playback screen.
-  This function is not available for DTS Audio CDs.
 -  This function may not be supported by some discs.
 -  Ripping encodes music in the .mp3 format at 192kbps.
 -  On the Track list screen, you can choose **Select All** or **Deselect All**.
 - Use **Select All** to select all tracks, and then press the  button. This cancels your individual track selections.
 - Use **Deselect All** to deselect all selected tracks at once.

Playing Photo Content

You can play photo contents located on a DVD or USB.

Using the Tools Menu

During playback, press the **TOOLS** button.

Start / Stop Slide Show

Select to play/pause the slide show.

Slide Show Speed

Select to adjust the slide show speed.

Background Music

Select to listen to music while viewing a slide show.

Zoom

Select to enlarge the current picture.
(Enlarge up to 4 times)

Rotate

Select to rotate a picture. (This will rotate the picture either clockwise or counter clockwise.)

Information

Shows the picture information including the file name and size, etc.

- ✎ Depending on the disc or storage device, the **Tools** menu may differ. All options may not be displayed.
- ✎ To enable the background music function, the photo file must be in the same storage media as the music file. However, the sound quality can be affected by the bit rate of the MP3 file, the size of the photo, and the encoding method.

Creating a Photo Playlist

You can create a photo playlist in nearly the same way you create a music playlist. See page 24 for instructions. Select photo files instead of music files.

Using the Special Effects Remote Control Buttons

TV SOUND

TV SOUND



If you have a TV that supports Anynet+ (HDMI-CEC), the **TV SOUND** button lets you direct the TV's audio to the Home Cinema Speakers or the TV Speakers. To use this function, follow these steps:

1. Connect an HDMI cable to the TV and home cinema. (See page 11)
2. Set **Anynet+ (HDMI-CEC) On** in the home cinema and TV.
3. Press the **TV SOUND** button on the remote control. **TV SOUND ON** flashes on the display on the front panel, and then changes to **D. IN**.
 - When **TV SOUND** is on, TV audio outputs through the Home Cinema speakers.
4. Press the **TV SOUND** button again to turn **TV SOUND** off.
 - When **TV SOUND** is off, TV audio outputs through the speakers of the connected Anynet+ TV.

❑ Use **TV SOUND**:

- 1) When you want to listen to the TV's audio through the home cinema speakers.
- 2) When you want to listen to the audio from a USB device plugged into the TV through the home cinema speakers.

Playing Content

□ TV SOUND ON/OFF support specifications:

Anynet+ (HDMI-CEC) Setting	TV Sound ON	TV Sound OFF
ON	HTS Speaker Output	HTS Speaker Mute
	TV Speaker Mute	TV Speaker Output
OFF	HTS Speaker Output	HTS Speaker Mute
	TV Speaker Output	TV Speaker Output
No Operation	HTS Speaker Output	HTS Speaker Mute
	TV Speaker Output	TV Speaker Output

DSP/EQ	
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You can adjust the sound with various sound modes.

- ▼ **DSPOFF** : Select for normal listening.
- ▼ **CINEMA** : Produces realistic and powerful sound for movies.
- ▼ **MUSIC** : Suitable for all music sources.
- ▼ **GAME** : Revs up video games with powerful and realistic sound.
- ▼ **M-STEREO (Multi Stereo)** : Produces surround sound from 2 channel input sources.
- ▼ **POWER BASS** : Pumps up the bass sound.
- ▼ **LOUD** : Improves bass sound characteristics according to output level.
- ▼ **NIGHT** : Optimizes sound for night time listening by compressing the dynamic range and softening the sound.
- ▼ **USER EQ** : Provides a user adjustable equaliser so you can adjust music to your liking.

Additional Information

Notes

Connections

HDMI OUT

- Certain HDMI output resolutions may not work, depending on your TV.
- A long HDMI cable may cause screen noise. If this occurs, set **HDMI Deep Colour** to **Off** in the menu.

Settings

TV Aspect Ratio

- Depending on the disc type, some aspect ratios may not be available.
- If you select an aspect ratio and option which is different than the aspect ratio of your TV screen, the picture might appear to be distorted.
- If you select **16:9 Original**, your TV may display **4:3 Pillarbox** (black bars on the sides of the picture).

BD Wise (Samsung Products only)

- When **BD Wise** is on, the **Resolution** setting automatically defaults to BD Wise and BD Wise appears in the **Resolution** menu.
- If the product is connected to a device that does not support **BD Wise**, you cannot use the **BD Wise** function.
- For proper operation of **BD Wise**, set the **BD Wise** option in both the product and the TV to **On**.

Digital Output

- Be sure to select the correct **Digital Output** or you will hear no sound or just loud noise.
- If the HDMI device (AV receiver, TV) is not compatible with compressed formats (Dolby Digital, DTS), the audio signal outputs as PCM.
- Regular DVDs do not have BONUSVIEW audio and Navigation Sound Effects.
- Some Blu-ray Discs do not have BONUSVIEW audio and Navigation Sound Effects.

- This **Digital Output** setup does not affect the analogue (L/R) audio or HDMI audio output to your TV. It affects the optical and HDMI audio output when your product is connected to an AV receiver.
- If you play MPEG audio soundtracks, the audio signal outputs as PCM regardless of your **Digital Output** selections (PCM or Bitstream).
- **Digital Output** can be activated when **Speaker Selection** is set to **TV Speaker**.

Anynet+ (HDMI-CEC)

- Depending on your TV, certain HDMI output resolutions may not work. Please refer to the user manual of your TV.
- This function is not available if the HDMI cable does not support CEC.
- If your Samsung TV has an Anynet+ logo, then it supports the Anynet+ function.

BD Data Management

- In the external memory mode, disc playback may be stopped if you disconnect the USB device in the middle of playback.
- Only those USB devices formatted in the FAT file system (DOS 8.3 volume label) are supported. We recommend you use USB devices that support the USB 2.0 protocol with 4 MB/sec or faster read/write speeds.
- The Resume Play function may not work after you format the storage device.
- The total memory available to **BD Data Management** may differ, depending on conditions.

DivX® Video On Demand

- For more information about DivX(R) VOD, visit "<http://vod.divx.com>".

Speaker Settings

- When **Speaker Selection** is set to **TV Speaker**, audio is produced by the TV speakers.

HDMI audio

- When HDMI audio is output to the TV speakers, it is automatically down-mixed to 2 channels.

Appendix

Audio Return Channel

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

Playback

Playing Video files

- Video files with high bit rates of 20Mbps or more strain the product's capabilities and may stop playing during playback.

Selecting the Audio Language

- The ◀▶ indicator will not appear on the screen if the BONUSVIEW section does not contain any BONUSVIEW audio settings.
- The languages available through the Audio Language function depend on the languages that are encoded on the disc. This function or certain languages may not be available.
- Some Blu-ray Discs may allow you to select either the PCM or Dolby Digital audio English soundtrack.

Selecting the Subtitle Language

- Depending on the Blu-ray Disc / DVD, you may be able to change the subtitle language in the Disc Menu. Press the DISC MENU button.
- This function depends on the selection of subtitles that are encoded on the disc and may not be available on all Blu-ray Discs/DVDs.
- Information about the main feature BONUSVIEW mode will also appear if the Blu-ray Disc has a BONUSVIEW section.
- This function changes both the primary and secondary subtitles at the same time.
- The total number of primary and secondary subtitles, respectively, is displayed.

Playing JPEG files

- You can't enlarge the subtitle and PG graphics in the full screen mode.

Playing Content

Using the TOOLS button while playing pictures

- If the home cinema is connected to a BD Wise compliant TV that has **BD Wise On**, the **Picture Settings** menu will not appear.
- The **Background Music** function will not work unless the music file and the photo file are located on the same storage media. Also, sound quality can be impacted by the bit rate of the MP3 music file, the size of the photos, and the encoding method.

Disk and Format Compatibility

Disc types and content your Product can Play

Media	Disc Type	Details
VIDEO	Blu-ray Disc	BD-ROM or BD-RE/-R disc recorded in the BD-RE format.
	DVD-VIDEO, DVD-RW, DVD-R, DVD+RW, DVD+R, VCD 1.1	DVD-VIDEO, recorded DVD+RW/DVD-RW(V)/DVD-R/+R discs that have been recorded and finalised, or a USB storage media containing DivX, MKV, MP4, VCD 1.1 contents.
MUSIC	CD-RW/-R, DVD-RW/-R, BD-RE/-R	Music recorded on CD-RW/-R, DVD-RW/-R, BD-RE/-R discs or a USB storage media containing MP3 or WMA contents.
PHOTO	CD-RW/-R, DVD-RW/-R, BD-RE/-R	Photos recorded on CD-RW/-R, DVD-RW/-R, BD-RE/-R discs or a USB storage media containing JPEG contents.

-  The product may not play certain CD-RW/-R and DVD-R because of the disc type or recording conditions.

- ✎ If a DVD-RW/-R disc has not been recorded properly in DVD video format, it will not be playable.
- ✎ Your product will not play content that has been recorded on a DVD-R at a bit rate that exceeds 10 Mbps.
- ✎ Your product will not play content that has been recorded on a BD-R or USB device at a bit rate that exceeds 30 Mbps.
- ✎ Playback may not work for some types of discs, or when you use specific operations, such as angle change and aspect ratio adjustment. Information about the discs is written in detail on the disc box. Please refer to this if necessary.
- ✎ When you play a BD-J title, loading may take longer than a normal title or some functions may perform slowly.

Disc Types your Product cannot Play

- HD DVD
- DVD-ROM/PD/MV-Disc, etc
- DVD-RW(VR mode)
- CVD/CD-ROM/CDV/CD-G/CD-I/LD (CD-Gs play audio only, not graphics.)
- ✎ This product may not respond to all operating commands because some Blu-ray Disc, DVD, and CD discs allow specific or limited operation and provide only certain features during playback. Please note that this is not a defect in the product.
- ✎ Samsung cannot guarantee that this product will play every disc bearing the Blu-ray Disc, DVD, or CD logo because disc formats evolve, and problems and errors may occur during the creation of Blu-ray Disc, DVD, and CD software and/or the manufacture of discs.
- ✎ Please contact the SAMSUNG Customer Care Centre at, if you have questions or encounter difficulty when playing Blu-ray Disc, DVD, or CD discs in this product. Also, refer to rest of this user manual for additional information on playback restrictions.
- ✎ Some commercial discs and DVD discs purchased outside your region may not play on this product.
- DVD-RAM
- Super Audio CD (except CD layer)
- 3.9 GB DVD-R Disc for Authoring.

Logos of Discs the Product can Play

	
Blu-ray Disc	DivX
	
Dolby	DTS
	
Java	PAL broadcast system in U.K, France, Germany, etc.

Region Code

Both products and discs are coded by region. These regional codes must match for a disc to play. If the codes do not match, the disc will not play.

The Region Number for this product is displayed on the rear panel of the product.

Disc Type	Region Code	Area
Blu-ray Disc		North America, Central America, South America, Korea, Japan, Taiwan, Hong Kong and South East Asia.
		Europe, Greenland, French territories, Middle East, Africa, Australia and New Zealand.
		India, China, Russia, Central and South Asia.

Appendix

DVD-VIDEO		The U.S., U.S. territories and Canada
		Europe, Japan, the Middle East, Egypt, Africa, Greenland
		Taiwan, Korea, the Philippines, Indonesia, Hong Kong
		Mexico, South America, Central America, Australia, New Zealand, Pacific Islands, Caribbean
		Russia, Eastern Europe, India, North Korea, Mongolia
		China

-  If the Region number of a Blu-ray Disc/DVD does not correspond to the Region number of this product, the product cannot play the disc.

AVCHD (Advanced Video Codec High Definition)

- This product can play back AVCHD format discs. These discs are normally recorded and used in camcorders.
 - The AVCHD format is a high definition digital video camera format.
 - The MPEG-4 AVC/H.264 format compresses images with greater efficiency than the conventional image compressing format.
 - Some AVCHD discs use the "x.v.Colour" format. This product can play back AVCHD discs that use the "x.v.Colour" format.
 - "x.v.Colour" is a trademark of Sony Corporation.
 - "AVCHD" and the AVCHD logo are trademarks of Matsushita Electronic Industrial Co., Ltd. and Sony Corporation.
-  Some AVCHD format discs may not play, depending on the recording conditions.
-  AVCHD format discs need to be finalised.

-  "x.v.Colour" offers a wider colour range than normal DVD camcorder discs.
-  Some DivX, MKV and MP4 format discs may not play, depending on their video resolution and frame rate.

Supported Formats

Notes on the USB connection

- Your product supports USB storage media, MP3 players, digital cameras, and USB card readers.
- The product does not support folder or file names longer than 128 characters.
- Some USB/digital camera devices may not be compatible with the product.
- Your product supports the FAT 16, FAT 32, and NTFS file systems.
- Connect USB devices directly to the product's USB port. Connecting through a USB cable may cause compatibility problems.
- Inserting more than one memory device into a multi-card reader may cause the reader to operate improperly.
- The product does not support the PTP (Peer to Peer) protocol.
- Do not disconnect a USB device while it is transferring or recording data.
- The bigger the image resolution, the longer the image takes to display.
- This product cannot play MP3 files with DRM (Digital Rights Management) downloaded from commercial sites.
- Your product only supports video that is under 30fps (frames per second).
- Your product only supports USB Mass Storage Class (MSC) devices such as thumb drives and USB HDD. (HUB is not supported.)
- Certain USB HDD Devices, multi-card readers and thumb drives may not be compatible with this product.
- If some USB devices require excessive power, they may be limited by the circuit safety device.
- If playback from a USB HDD is unstable, provide additional power by plugging the HDD into a wall socket. If the problem continues, contact the USB HDD manufacturer.
- SAMSUNG is not responsible for any data file damage or data loss.

Video File Support

File Extension	Container	Video Codec	Audio Codec	Resolution
*.avi	AVI	DivX 3.11/4/5/6 MP4v3 H.264 BP/MP/HP	MP3, Dolby Digital, DTS, WMA, PCM	1920x1080
*.mkv	MKV	VC-1 AP, DivX 5/6 H.264 BP/MP/HP	MP3, Dolby Digital, DTS	
*.wmv	WMV (wmv9)	VC-1 AP VC-1 SM	WMA	
*.mp4	MP4	MP4 (mp4v) H.264 BP/MP/HP	AAC	
*.mpg / *.mpeg	PS	MPEG1 MPEG2 H.264 BP/MP/HP	MP1, 2 Dolby Digital, DTS	

■ Limitations

- Even when a file is encoded by a supported codec listed above, the file might not play if its content has a problem.
- Normal playback is not guaranteed if the file's container information is wrong or the file itself is corrupted.
- Files having a higher bit rate/frame rate than standard may stutter during sound/video playback.
- The Seek (skip) function is not available if the file's index table is damaged.

■ Video decoder

- Supports up to H.264 Level 4.1 and AVCHD
- Does not support H.264 FMO/ASO/RS and VC1 SP/MP/AP L4
- MPEG4 SP, ASP :
Below 1280 x 720 : 60 frames max
Above 1280 x 720 : 30 frames max
- Does not support GMC 2 or higher

■ Audio decoder

- Supports WMA 7, 8, 9 and STD
- Does not support WMA sampling rate of 22050Hz mono.
- AAC: Max sampling rate: 96Khz (8, 11, 12, 16, 22,24, 32,44.1, 48, 64, 88.2, 96) Max bit rate: 320kbps

■ Supported DivX subtitle file formats

- *.txt, *.smi, *.srt, *.sub, *.txt

Music File Support

File Extension	Container	Audio Codec	Support Range
*.mp3	MP3	MP3	-
*.wma	WMA	WMA	* Sampling rates (in kHz) - 8, 11, 16, 22, 32, 44.1, 48 * Bit Rates - All bit rates from 5kbps to 384kbps

Picture File Support

File Extension	Type	Resolution
*.jpg / *.jpeg / *.jpe	JPEG	15360x8640
*.png	PNG	

Appendix

Digital Output Selections

Setup		PCM	Bitstream (Unprocessed)	Bitstream (Re-encoded DTS)	Bitstream (Re-encoded Dolby D)
Connection		HDMI supported AV receiver			
Audio Stream on Blu-ray Disc	PCM	Up to PCM 7.1ch	PCM	DTS re-encoded	Re-encoded Dolby Digital *
	Dolby Digital	Up to PCM 5.1ch	Dolby Digital		
	Dolby Digital Plus	Up to PCM 5.1ch	Dolby Digital Plus		
	Dolby TrueHD	Up to PCM 5.1ch	Dolby TrueHD		
	DTS	Up to PCM 5.1ch	DTS		
	DTS-HD High Resolution Audio	Up to PCM 5.1ch	DTS-HD High Resolution Audio		
	DTS-HD Master Audio	Up to PCM 5.1ch	DTS-HD Master Audio		
Audio Stream on DVD	PCM	PCM 2ch	PCM 2ch	PCM 2ch	PCM 2ch
	Dolby Digital	Up to PCM 5.1ch	Dolby Digital	Dolby Digital	Dolby Digital
	DTS	Up to PCM 5.1ch	DTS	DTS	DTS
Definition for Blu-ray Disc	Any	Decodes the main feature audio and BONUSVIEW audio stream together into PCM audio and adds Navigation Sound Effects.	Outputs only the main feature audio stream so that your AV receiver can decode the audio bitstream. You will not hear BONUSVIEW audio or Navigation Sound Effects.	Decodes the main feature audio and BONUSVIEW audio stream together into PCM audio and adds Navigation Sound Effects, then re-encodes the PCM audio into DTS bitstream.	Decodes the main feature audio and BONUSVIEW audio stream together into PCM audio and adds Navigation Sound Effects, then re-encodes the PCM audio into Dolby Digital bitstream or PCM.

■ If the Source Stream is 2ch or mono, "Re-encoded Dolby D" Setting are not applied. Output will be PCM 2ch.

Blu-ray Discs may include three audio streams :

- Main Feature Audio : The audio soundtrack of the main feature.
- BONUSVIEW audio : An additional soundtrack such as the director or actor's commentary.
- Navigation Sound Effects : When you choose some menu navigation options, Navigation Sound Effects may sound. Navigation Sound Effects are different on each Blu-ray Disc.

Resolution according to the output mode

Blu-ray Disc/E-contents/Digital Contents playback			DVD playback
Setup \ Output	HDMI Mode		HDMI Mode
	Blu-ray Disc	E-contents/ Digital contents	
BD Wise	Resolution of Blu-ray Disc	1080p@60F	576i/480i
Auto	Max. Resolution of TV input		Max. Resolution of TV input
1080p@60F	1080p@60F		-
1080p	-		1080p
Movie Frame : Auto (24 fps)	1080p@24F		-
1080i	1080i		1080i
720p	720p		720p
576p/480p	576p/480p		576p/480p

Troubleshooting

Refer to the table below when this product does not function properly. If the problem you are experiencing is not listed below or if the instructions below do not help, turn off the product, disconnect the power cord and contact the nearest authorized dealer or Samsung Electronics Service Centre.

Symptom	Check/Remedy
You cannot eject the disc.	- Is the power cord plugged securely into the outlet? - Turn off the power, and then turn it back on.
Playback does not start.	- Check the region number of the Blu-ray/DVD disc. A Blu-ray/DVD disc purchased from abroad may not be playable. - CD-ROMs and DVD-ROMs cannot be played on this product. - Make sure that the rating level is correct.
Playback does not start immediately when you press the  /  button.	- Are you using a deformed disc or a disc with scratches on the surface? - Wipe the disc clean.
No sound.	- The home cinema does not play sound during fast playback, slow playback, and step motion playback. - Are the speakers connected properly? Is the speaker setup correctly customized? - Is the disc severely damaged?
You can only hear sound from a few speakers, but not all 6.	- On certain Blu-ray/DVD discs, sound is output from the front speakers only. - Check if the speakers are connected properly. - Adjust the volume. - When playing audio from a CD, the radio, or a TV, the unit outputs sound to the front speakers only.

Appendix

Symptom	Check/Remedy
Dolby Digital 5.1 CH Surround Sound is not produced.	- 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. - Is the audio language correctly set to Dolby Digital 5.1-CH in the information display?
The remote control does not work.	- Are you operating the remote within its operational range and within the proper angle relative to the sensor? - Are the batteries drained? - Have you selected the correct mode? Press the function button to change the mode (BD/DVD, D. IN, AUX, etc.).
- The disc is rotating but there is no picture. - Picture quality is poor and the picture is shaking.	- Is the TV power on? - Are the video cables connected properly? - Is the disc dirty or damaged? - A poorly manufactured disc may not be playable.
Audio language and subtitles do not work.	The Audio Language and subtitle functions will not work if the disc does not contain multiple language sound tracks or subtitles.
The menu screen does not appear even when you select the menu function.	Are you using a disc that does not contain menus?
The aspect ratio cannot be changed.	The home cinema can play 16:9 Blu-ray/DVD discs in 16:9 Full mode, 4:3 Letter Box mode, or 4:3 Pan-Scan mode, but plays 4:3 Blu-ray/DVD discs in 4:3 mode only. Refer to the Blu-ray Disc jacket, and then select the appropriate aspect ratio.
- The product is not working. (Example: The power goes off or you hear a strange noise.) - The Product is not working normally.	- Press and hold the remote control's ■ button for 5 seconds in STANDBY mode. This will reset the unit. - Using the RESET function will erase all stored settings. Do not use this function unless necessary.
You have forgotten the rating level password.	- With no disc in the product, press and hold the product's ■ button for longer than 5 seconds. INIT appears on the display and all settings will return to their default values. - Using the RESET function will erase all stored settings. Do not use this function unless necessary.
Can't receive radio broadcasts.	- Is the antenna connected properly? - If the antenna's input signal is weak, install an external FM antenna in an area with good reception.
There is no sound when you try to listen to TV audio through the home cinema speakers.	If you press the ▲ button while listening to TV audio using the D. IN or AUX functions, the Blu-ray/DVD disc functions are turned on and the TV audio is muted.

Symptom	Check/Remedy
"Not Available" appears on screen.	- The feature is unavailable or the action cannot be completed at this time because: - The Blu-ray/DVD disc's software restricts it. - The Blu-ray/DVD disc's software doesn't support the feature (e.g., angles) - The feature is not available at the moment. - You've requested a title or chapter number or search time that is out of range.
If the HDMI output is set to a resolution your TV cannot support (for example, 1080p), you may not see a picture on your TV.	Press and hold the  button on front panel for more than 5 seconds with no disc in the product. All settings will revert to their factory settings.
No HDMI output.	- Check the connection between the TV and the HDMI jack of the product. - Check if your TV supports 576p/480p/720p/1080i/1080p HDMI input resolution.
Abnormal HDMI output appears on the screen.	If random noise appears on the screen, it means that TV does not support HDCP (High-bandwidth Digital Content Protection).

 When the factory default settings are restored, all stored user BD data is deleted.

Appendix

Specifications

General	Weight	1.90 kg			
	Dimensions	430.0 (W) x 55.0 (H) x 224.0 (D) mm			
	Operating Temperature Range	+5°C to +35°C			
	Operating Humidity Range	10 % to 75 %			
FM Tuner	Signal/noise ratio	55 dB			
	Usable sensitivity	12 dB			
	Total harmonic distortion	1.0 %			
HDMI	Video	1080p, 1080i, 720p, 576p/480p			
	Audio	PCM multichannel audio, Bitstream audio, PCM audio			
Amplifier	Front speaker output	165W x 2 (3Ω)			
	Centre speaker output	170W (3Ω)			
	Surround speaker output	165W x 2 (3Ω)			
	Subwoofer speaker output	170W (3Ω)			
	Frequency response	20Hz~20kHz (±3dB)			
	S/N Ratio	70dB			
	Channel separation	60dB			
	Input sensitivity	(AUX) 500mV			
Speaker (5.1ch speaker system)					
Speaker system	Impedance	Frequency range	Rated input	Dimensions (W x H x D) (mm)	Weights (kg)
Front	3 Ω	200Hz ~ 20kHz	165W	89.0 x 1053.0 x 71.0 (Stand base: 230.0 x 230.0 x 23.8)	2.93
Surround				89.0 x 1053.0 x 71.0 (Stand base: 230.0 x 230.0 x 23.8)	2.93
Centre			170W	228.0 x 77.0 x 70.0	0.49
Subwoofer		20Hz ~ 200Hz		168.0 x 350.0 x 285.0	3.67

✎ 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.

✎ For the power supply and Power Consumption, refer to the label attached to the product.

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This product uses Cinavia technology to limit the use of unauthorized copies of some commercially-produced film and videos and their soundtracks. When a prohibited use of an unauthorized copy is detected, a message will be displayed and playback or copying will be interrupted. More information about Cinavia technology is provided at the Cinavia Online Consumer Information Centre at <http://www.cinavia.com>. To request additional information about Cinavia by mail, send a postcard with your mailing address to: Cinavia Consumer Information Centre, P.O. Box 86851, San Diego, CA, 92138, USA." This product incorporates proprietary technology under licence from Verance Corporation and is protected by U.S. Patent 7,369,677 and other U.S. and worldwide patents issued and pending as well as copyright and trade secret protection for certain aspects of such technology. Cinavia is a trademark of Verance Corporation. Copyright 2004-2010 Verance Corporation. All rights reserved by Verance. Reverse engineering or disassembly is prohibited.

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In the case of using open source software, Open Source Licences are available on the product menu.



UNITED KINGDOM



EIRE

This Samsung product is warranted for the period of twelve (12) months from the original date of purchase, against defective materials and workmanship. In the event that warranty service is required, you should return the product to the retailer from whom it was purchased. However, Samsung Authorised Dealers and Authorised Service Centres in other EC Countries will comply with the warranty on the terms issued to purchasers in the country concerned. In case of difficulty, details of our Authorised Service Centres are available from:

Samsung Electronics U.K. Ltd
Samsung Customer Support Centre
Selectapost 38, Sheffield, S97 3FJ
United Kingdom

United Kingdom
Tel : 0330 SAMSUNG (7267864)
www.samsung.com/uk/support

EIRE
Tel : 0818 717100
www.samsung.com/ie/support

■ WARRANTY CONDITIONS

1. The warranty is only valid if, when warranty service is required, the warranty card is fully and properly completed and is presented with the original invoice or sales slip or confirmation, and the serial number on the product has not been defaced.
2. Samsung's obligations are limited to the repair or, at its discretion, replacement of the product or the defective part.
3. Warranty repairs must be carried out by Authorised Samsung Dealers or Authorised Service Centres. No re-imbursement will be made for repairs carried out by non Samsung Dealers and, any such repair work and damage to the products caused by such repair work will not be covered by this warranty.
4. This product is not considered to be defective in materials nor workmanship by reason that it requires adaptation in order to conform to national or local technical or safety standards in force in any Country other than the one for which the product was originally designed and manufactured. This warranty will not cover, and no re-imbursement will be made for such adaptation nor any damage which may result.
5. This warranty covers none of the following:
 - a) Periodic check ups, maintenance and repair or replacement of parts due to normal wear and tear.
 - b) Cost relating to transport, removal or installation of the product.
 - c) Misuse, including the failure to use this product for its normal purposes or incorrect installation.
 - d) Damage caused by Lightning, Water, Fire, Acts of God, War, Public Disturbances, incorrect mains voltage, improper ventilation or any other cause beyond the control of Samsung.
6. This warranty is valid for any person who legally acquired possession of the product during the warranty period.
7. The consumers statutory rights in any applicable national legislation whether against the retailer arising from the purchase contract or otherwise are not affected by this warranty. Unless there is national legislation to the contrary, the rights under this warranty are the consumers sole rights and Samsung, its subsidiaries and distributors shall not be liable for indirect or consequential loss or any damage to records, compact discs, videos or audio taper or any other related equipment or material.

SAMSUNG ELECTRONICS (U.K.) LTD.

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

Country	Contact Centre ☎	Web Site
■ Europe		
UK	0330 SAMSUNG (7267864)	www.samsung.com/uk/support
IRELAND (EIRE)	0818 717100	www.samsung.com/ie/support
GERMANY	06196 77 555 77	www.samsung.com/de/support
FRANCE	01 48 63 00 00	www.samsung.com/fr/support
ITALIA	800-SAMSUNG (800.7267864)	www.samsung.com/it/support
SPAIN	0034902172678	www.samsung.com/es/support
PORTUGAL	808 207 267	www.samsung.com/pt/support
LUXEMBURG	261 03 710	www.samsung.com/be_fr/support
NETHERLANDS	088 90 90 100	www.samsung.com/nl/support
BELGIUM	02-201-24-18	www.samsung.com/be/support (Dutch) www.samsung.com/be_fr/support (French)
NORWAY	815 56480	www.samsung.com/no/support
DENMARK	707 019 70	www.samsung.com/dk/support
FINLAND	030-6227 515	www.samsung.com/fi/support
SWEDEN	0771 726 786	www.samsung.com/se/support
POLAND	801-172-678* lub +48 22 607-93-33* * (koszt połączenia według taryfy operatora)	http://www.samsung.com/pl/support/
HUNGARY	0680SAMSUNG (0680-726-7864)	www.samsung.com/hu/support
AUSTRIA	0800-SAMSUNG (0800-7267864) [Only for Dealers] 0810-112233	www.samsung.com/at/support

Country	Contact Centre ☎	Web Site
SWITZERLAND	0800 726 78 64 (0800-SAMSUNG)	www.samsung.com/ch/support (German) www.samsung.com/ch_fr/support (French)
CZECH	800 - SAMSUNG (800-726786)	www.samsung.com/cz/support
SLOVAKIA	0800 - SAMSUNG (0800-726 786)	www.samsung.com/sk/support
CROATIA	072 726 786	www.samsung.com/hr/support
BOSNIA	055 233 999	www.samsung.com/support
MONTENEGRO	020 405 888	
SLOVENIA	080 697 267 (brezplačna številka)	www.samsung.com/si/support
SERBIA	011 321 6899	www.samsung.com/rs/support
ALBANIA	045 620 202	www.samsung.com/al/support
BULGARIA	*3000 Цена в мрежата 0800 111 31 , безплатна телефонна линија	www.samsung.com/bg/support
ROMANIA	*8000 (apel in retea) 08008-726-78-64 (08008-SAM-SUNG) Apel GRATUIT	www.samsung.com/ro/support
CYPRUS	8009 4000 only from landline, toll free	
GREECE	80111-SAMSUNG (80111 726 7864) only from land line (+30) 210 6897691 from mobile and land line	www.samsung.com/gr/support
LITHUANIA	8-800-77777	www.samsung.com/lt/support
LATVIA	8000-7267	www.samsung.com/lv/support
ESTONIA	800-7267	www.samsung.com/ee/support



Correct disposal of batteries in this product

(Applicable in countries with separate collection systems)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.



Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract.

This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

For information on Samsung's environmental commitments and product specific regulatory obligations e.g. REACH, WEEE, Batteries, visit: http://www.samsung.com/uk/aboutsamsung/samsungelectronics/corporatecitizenship/data_corner.html



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