HT-ES420K

Digital Home Entertainment 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.



This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.

CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN

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 a 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

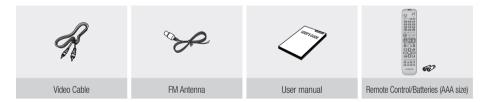
 INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED, AVOID EXPOSURE TO BEAM.

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.
- · Before moving the product, ensure the Disc Insert Hole is empty.
- 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
- 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 or disc 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.

Accessories

Check for the supplied accessories below.



Safety Information

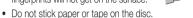
Cautions on Handling and Storing Discs

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

Be especially careful not to scratch discs when handling them.

Holding discs

- Do not touch the playback side of the disc.
- Hold the disc by the edges so that fingerprints will not get on the surface.



Disc Storage

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



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

Handling and Storing Discs

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

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



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

Licence



 Dolby and the double-D symbol are registered trademarks of Dolby Laboratories.



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 5,974,380; 6,487,535 & other U.S. and worldwide patents issued & pending. DTS, the Symbol, & DTS and the Symbol together are registered trademarks & DTS 2.0 Channel is a trademark of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved.

DIVX

- ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX,LLC,a subsidiary of Rovi Corporation. This is an official DivX Certified® device that plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX videos.
- ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.
- DivX Certified® to play DivX® video, including premium content.
- DivX®, DivX Certified® and associated logos are trademarks of Rovi Corporation or its subsidiaries and are used under license.
- Covered by one or more of the following U.S. patents: 7,295,673; 7,460,668; 7,515,710; 7,519,274.

HDMI

- HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.
- This item incorporates copy protection technology that is protected by U.S. patents and other intellectual property rights of Rovi Corporation.
 Reverse engineering and disassembly are prohibited.
- This product uses some software programs which are distributed under the Independent JPEG Group.
- This product uses some software programs which are distributed under the OpenSSL Project.

Copyright

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Copy Protection

 Many DVD discs are encoded with copy protection.
 Because of this, you should only connect your product directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.

Contents

SAFETY INFORMATION

- Safety Warnings
- 3 Precautions
- 3 Accessories
- Cautions on Handling and Storing Discs
- 4 Licence
- 4 Copyright
- Copy Protection

GETTING STARTED

- Icons that will be used in manual
- 7 Disc Types and Characteristics
- 11 Description
- Front Panel 11
- 12 Rear Panel
- 13 Remote control

CONNECTIONS

- Connecting the Speakers
- 18 Connecting the Video Out to your TV
- 19 Connecting Microphone
- 20 Connecting the FM Antenna
- 20 Connecting Audio from External Components

SETUP

- 22 Before Starting (Initial Settings)
- 22 Setting the Setup menu
- 23 Display
- 23 TV Aspect
- 23 BD Wise Resolution
- 23 23 **HDMI** Format
- 23 Video Out Signal(option)
- 24 Audio
- DRC (Dynamic Range Compression) 24
- 24 **AUDIO SYNC**
- Speaker Selection 24
- 24 User EQ
- 24 Karaoke Scoring
- 24 Audio Return Ch.
- 24 System
- 24 Initial Settings 25
 - DivX(R) Registration
- 25 DivX(R) Deactivation
- 25 Language
- 25 Security
- 25 Parental Rating
- 25 Change Password
- 25 Support
- 25 Product Information

Contents

BASIC FUNCTIONS

- 26 Disc Playback
 26 Audio CD(CD-DA)/MP3/WMA Playback
 27 JPEG File Playback
- Using the Playback FunctionSound Mode
- 32 Listening to Radio

ADVANCED FUNCTIONS

- 33 USB Function
- 33 USB Recording

OTHER INFORMATION

- 34 Troubleshooting
- 35 Language code list
- 36 Specifications
- 37 OpenSSL License

Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance.

Getting Started

Icons that will be used in manual

Make sure to check the following terms before reading the user manual.

lcon	Term	Definition
○ BYD	DVD	This involves a function available with DVD-Video or DVD±R/±RW discs that have been recorded and finalised in Video Mode.
(C)	CD	This involves a function available with a data CD (CD DA, CD-R/-RW).
MP3	MP3	This involves a function available with CD-R/-RW discs.
JPEG	JPEG	This involves a function available with CD-R/-RW discs.
DivX	DivX	This involves a function available with MPEG4 discs. (DVD±R/±RW, CD-R/-RW)
!	CAUTION	This involves a case where a function does not operate or settings may be cancelled.
(5)	NOTE	This involves tips or instructions on the page that help each function operate.
(Am)	Shortcut Key	This function provides direct and easy access pressing the button on the remote control.

Disc Types and Characteristics

Region Code

The product and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.

Disc Type	Region Code	Area
		The U.S., U.S. territories and Canada
	2	Europe, Japan, the Middle East, Egypt, South Africa, Greenland
	(3)	Taiwan, Korea, the Philippines, Indonesia, Hong Kong
DVD-VIDEO	4	Mexico, South America, Central America, Australia, New Zealand, Pacific Islands, Caribbean
	(5)	Russia, Eastern Europe, India, most of Africa, North Korea, Mongolia
	6	China

Getting Started

Disc types that can be played

Disc Types & Mark (Logo)	Recorded Signals	Disc Size	Max. Playing Time
		12 cm	Approx. 240 min. (single-sided)
DVD VIDEO	AUDIO	12 CIII	Approx. 480 min. (double-sided)
DVD-VIDEO	+ VIDE0		Approx. 80 min. (single-sided)
		8 cm	Approx. 160 min. (double-sided)
		12 cm	74 min.
AUDIO-CD	AUDIO	8 cm	20 min.
DIVX	AUDIO .	12 cm	_
DivX	+ VIDE0	8 cm	_

Do not use the following type of discs!

- LD, CD-G, CD-I, CD-ROM, DVD-ROM and DVD-RAM discs cannot be played on this product. If such discs are played, a <WRONG DISC FORMAT> message appears on the TV screen.
- DVD discs purchased abroad may not play on this product.
 - If such discs are played, a <Wrong Region. Please check Disc.> message appears on the TV screen.

Disc Types And Disc Format

This product does not support Secure (DRM) Media files.

CD-R Discs

- Some CD-R discs may not be playable depending on the disc recording device (CD-Recorder or PC) and the condition of the disc.
- Use a 650MB/74 minute CD-R disc.
 Do not use CD-R discs over 700MB/80 minutes as they may not be played back.
- Some CD-RW (Rewritable) media, may not be playable.
- Only CD-Rs that are properly "closed" can be fully played. If the session is closed but the disc is left open, you may not be able to fully play the disc.

CD-R MP3 Discs

- Only CD-R discs with MP3 files in ISO 9660 or Joliet format can be played.
- MP3 file names should contain no blank spaces or special characters (. / = +).
- Use discs recorded with a compression/ decompression data rate greater than 128Kbps.
- Only files with the ".mp3" and ".MP3" extensions can be played.
- Only a consecutively written multisession disc can be played. If there is a blank segment in the Multisession disc, the disc can be played only up to the blank segment.
- If the disc is not closed, it will take longer to begin playback and not all of the recorded files may be played.
- For files encoded in Variable Bit Rate (VBR) format, i.e. files encoded in both low bit rate and high bit rate (e.g., 32Kbps ~ 320Kbps), the sound may skip during playback.
- A maximum of 500 tracks can be played per CD.
- A maximum of 300 folders can be played per CD.

CD-R JPEG Discs

- Only files with the "jpg" extensions can be played.
- If the disc is not closed, it will take longer to start playing and not all of the recorded files may be played.
- Only CD-R discs with JPEG files in ISO 9660 or Joliet format can be played.
- JPEG file names should be 8 characters or less in length and contain no blank spaces or special characters (. / = +).
- Only a consecutively written multisession disc can be played. If there is a blank segment in the multisession disc, the disc can be played only up to the blank segment.
- A maximum of 999 images can be stored on a folder.
- When playing a Kodak/Fuji Picture CD, only the JPEG files in the picture folder can be played.
- Picture discs other than Kodak/Fuji Picture CDs may take longer to start playing or may not play at all.

DVD±R/±RW. CD-R/RW Discs

- Software updates for incompatible formats are not supported.
 - (Example: QPEL, GMC, resolutions higher than 800 x 600 pixels, etc.)
- If a DVD-R/-RW disc has not been recorded properly in DVD Video format, it will not be playable.
- Sections with a high frame rate might not be played while plaving a DivX file.

shaking on the screen during playback.

• When you play a disc whose sampling frequency is

higher than 48khz or 320kbps, you may experience

• Since this product only provides encoding formats authorized by DivX Networks, Inc., a DivX file created by the user might not play.

DivX (Digital internet video express)

DivX® is a video file format developed by DivX, Inc and is based on MPEG4 compression technology to provide audio and video data over the Internet in real-time.

MPEG4 is used for video encoding and MP3 for audio encoding, enabling to watch a movie at near DVD-quality video and audio.

Supported Formats (DivX)

This product only supports the following media formats. If both video and audio formats are not supported, the user may experience problems such as broken images or no sound.

Supported Video Formats

Format	Supported Versions
AVI	DivX3.11~DivX6.8
WMV	V1/V2/V3/V7

Supported Audio Formats

Format	Bit Rate	Sampling Frequency	
MP3	80~320kbps	44.1khz	
WMA	56~128kbps	44.1802	
AC3	128~384kbps	44.1/48khz	
DTS	1.5Mbps	44.1khz	

- DivX files, including audio and video files, created in the DTS format can only support up to 6Mbps.
- Aspect Ratio: this product supports up to 720x576 pixels. TV screen resolutions higher than 800 will not be supported.

Getting Started

Notes on USB connection

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

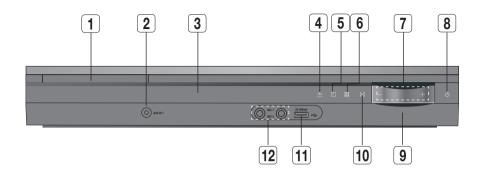
- If a folder or file name is longer than 10 characters, it may not properly display or operate.
- 2) A subtitle file bigger than 300KB may not be properly displayed.
- 3) A certain USB/digital camera device, USB card reader is not supported.
- 4) FAT16 and FAT32 file systems are supported.
- Photo (JPEG), music (MP3, WMA) and video file should have their names in Korean or English.
 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.
- 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 applied to an external USB device via the USB port is 500mA (based on DC 5V).

14) Supported file formats

Format	Still Picture	Music		Movie	
File name	JPG	MP3	WMA	WMV	DivX
File extension	JPG .JPEG	.MP3	.WMA	.WMV	.AVI
Bit rate	-	80~320 kbps	56~128 kbps	4Mbps	4Mbps
Version	-	-	V8	V1,V2, V3,V7	DivX3.11~ DivX6.8
Pixel	640x480	-	-	72	0x576
Sampling Frequency	-	44.1kHz	44.1kHz	44.1KH	łz∼ 48KHz

Description

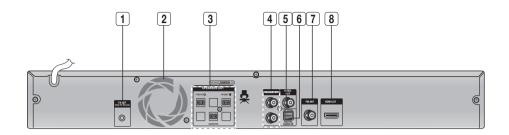
Front Panel



1	DISCTRAY	Insert disc here.
2	AUX IN 1 CONNECTOR	Connect external components such as an MP3 player.
3	DISPLAY	Displays the playing status, time, etc.
4	OPEN/CLOSE BUTTON ()	Opens and closes the disc tray.
5	FUNCTION BUTTON ()	The mode switches as follows : $DVD/CD \rightarrow D.IN \rightarrow AUX 1 \rightarrow AUX 2 \rightarrow USB \rightarrow FM$
6	STOP BUTTON ()	Stops disc playback.
7	VOLUME CONTROL BUTTON (······, ·····)	Volume adjustment.
8	POWER BUTTON (心)	Turns the product on and off.
9	REMOTE CONTROL SENSOR	Detects signals from the remote control.
10	PLAY / PAUSE BUTTON ()	Plays a disc or pauses playback.
11	USB PORT	Connect here and play files from external USB storage devices such as MP3 players, USB flash memory, etc. The USB memory that requires high power (more than 500mA at 5V) may not be supported. (except iPod/iPhone which is compatible with 1A at 5V).
12	MIC JACKS	Connects to the microphone.

Getting Started

Rear Panel

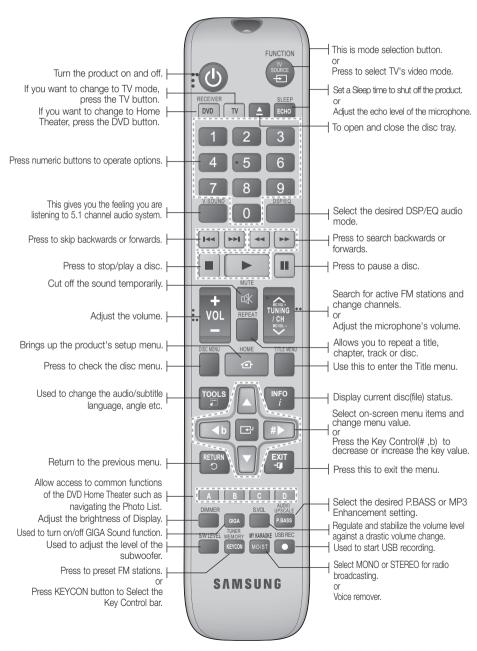


1	FA NET (Only for Service)	Used for the service repair.
2	COOLING FAN	The fan always revolves when the power is on. Ensure a minimum of 10cm of clear space on all sides of the fan when installing the product.
3	SPEAKERS OUTPUT CONNECTORS	Connect the front, subwoofer speakers.
4	AUX IN 2 JACKS	Connect to the 2CH Analog output of an external device (such as a VCR).
5	VIDEO OUT JACK	Connect your TV's Video Input jack (VIDEO IN) to the VIDEO OUT jack.
6	EXTERNAL DIGITAL OPTICAL IN JACK (DIGITAL AUDIO IN)	Use this to connect external equipment capable of digital output.
7	FM ANTENNA JACK	Connect the FM antenna.
8	HDMI OUT JACK	Using an HDMI cable, connect this HDMI output jack to the HDMI input jack on your TV for the best quality picture.

12 English

Remote control

Tour of the Remote Control



Getting Started

Installing batteries in the Remote Control





- Place batteries in the remote control so they match the polarity: (+) to (+) and (-) to (-).
- Always replace both batteries at the same time.
- Do not expose the batteries to heat or flame.
- The remote control can be used up to approximately 23 feet (7 meters) in a straight line.

Setting the Remote Control

You can control certain functions of your TV with this remote control.

When operating a TV with the remote control

- Press the TV button to set the remote control to TV mode.
- 2. Press the POWER button to turn on the TV.
- 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.
 - Example: For a Samsung TV
 While holding down the POWER button, use the number buttons to enter 00, 15, 16, 17 and 40.
- 4. If the TV turns off, the setting is complete.
 - You can use the TV POWER, VOLUME, CHANNEL, and Numeric buttons (0~9).



- The remote control may not work or some operations may not be possible with some brands of TVs.
- The remote control will work on a Samsung TV by default.

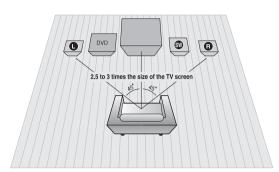
TV Brand Code List

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

Connections

This section involves 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



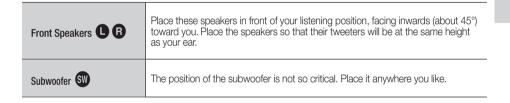
Position of the product

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 distance of the TV's screen size away from the TV.

Example : For 32" TV's 2~2.4m For 55" TV's 3.5~4m



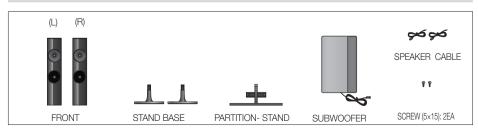
! CAUTION

- Do not let children play with or near the speakers. They could get hurt if the speaker falls.
- When connecting the speaker wires to the speakers, make sure that the polarity (+/-) is correct.
- Keep the subwoofer out of the reach of children so as to prevent them from inserting their hands or alien substances into the duct (hole) of the subwoofer.
- Do not hang the subwoofer on the wall through the duct (hole).

NOTE

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

Speaker Components



Connections

Installing the Speakers

You can install to use 4 types that described on the right side.

Type 1. You can assemble the speakers as a bar form and use the hole on the rear of the speaker to hang it up on the wall.



Type 2. You can assemble the speakers as a bar form and put it on the table to use.



Type 3. You can assemble the speakers as a stand form and put it on the table or floor to use.



Type 4. You can assemble the speakers as a stand form and use the hole on the rear of the speaker to hang it up on the wall.



 However, if you install the speakers on the wall, installation service or accessories (screws or nails) are not provided from the company.



Assembling the Front Speaker

You can install the product in one of the following two ways: Choose a desired one according to the installation area and your decoration plan.

Installing on the Partition

The front speakers can be combined by a partition.

- 1. Connect the left/right speakers to the Partition.
- 2. Insert screws into the hole on the rear of each speakers, and then use screwdriver to tighten screws clockwise.
- 3. This is the appearance after the speaker is installed.







Installing on the Table Stand

- 1. Connect the Speaker to the Stand Base.
- 2. Insert a screw into the hole on the rear of the speaker, and then use screwdriver to tighten a screw clockwise.
- 3. This is the appearance after the speaker is installed. Follow this steps to install other speaker.

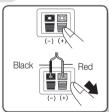


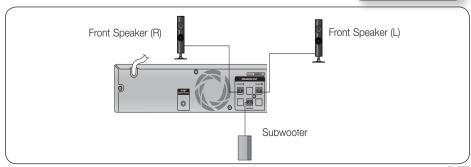




Connecting The Speakers

- 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 connecting plugs to the back of the product by matching the colours of the speaker plugs to the speaker jacks.



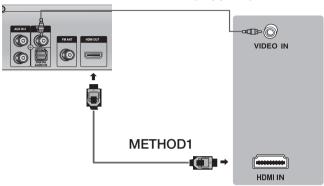


Connections

Connecting the Video Out to your TV

Choose one of the two methods for connecting to a TV.

METHOD2 (supplied)



METHOD 1: HDMI

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.

METHOD 2: Composite Video

Connect the supplied Video cable from the **VIDEO OUT** jack on the back of the product to the VIDEO IN jack on your TV.

[®] NOTE

- Resolutions available for the HDMI output are 576p/480p, 720p,1080i/1080p. See page 23 for the resolution setting.
- This product operates in Interlace scan mode 576i/480i for composite output.
- After making the video connection, set the Video input source on your TV to match the corresponding Video output (HDMI or Composite) on your product.
 - Turn this product on first before you set the video input source on your TV. See your TV owner's manual for more information on how to select the TV's Video Input source.

! CAUTION

Do not connect the unit through a VCR. Video signals fed through VCRs may be affected by copyright protection systems and the picture will be distorted on the television.

HDMI FUNCTION

HDMI Auto Detection Function

If your TV is samsung TV and it supports CEC function. The product's video output will automatically change to HDMI mode when connecting an HDMI cable while power is on.

• HDMI (High Definition Multimedia Interface)

18 English

HDMI FUNCTION

HDMI Auto Detection Function

- HDMI is an interface that enables the digital transmission of video and audio data with just a single connector. Using HDMI, the product transmits a digital video and audio signal and displays a vivid picture on a TV having an HDMI input jack.
- HDMI connection description
 - HDMI outputs only a pure digital signal to the TV.
- If your TV does not support HDCP (High-bandwidth Digital Content Protection), random noise appears on the screen.
- What is the HDCP?
- HDCP (High-band width Digital Content Protection) is a system for protecting DVD content outputted via HDMI from being copied. It provides a secure digital link between a video source (PC, DVD. etc) and a display device (TV, projector. etc). Content is encrypted at the source device to prevent unauthorized copies from being made.

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 product to a SAMSUNG TV using a HDMI Cable. This is only available with SAMSUNG TV's that support Anynet+.

- 1. Connect the product to a Samsung TV with an HDMI cable. (See page 18)
- 2. Set the Anynet+ function on your TV. (See the TV instruction manual for more information.)

[®] NOTE

- The Anynet+ function supports some buttons of the remote control.
- This function is not available if an HDMI cable does not support CEC.
- Depending on your TV, certain HDMI output resolutions may not work. Please refer to the user's manual of your TV.
- Please check the Anynet logo (If your TV has an Anynet logo, then it supports Anynet+ function.)

Connecting Microphone

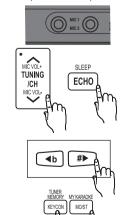
You can enjoy the feeling of a karaoke bar in the comfort of your home.

Watch the video and sing along the lyrics displayed on the TV screen against the accompaniment.

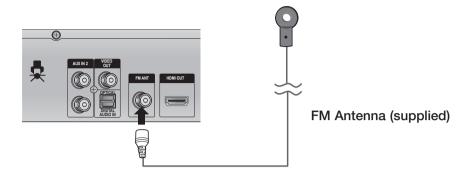
- 1. Connect the microphone to the MIC jack on the front of the product. You can connect up to two microphones.
- 2. Press the MIC VOL button to adjust the volume of the microphone.
- 3. Press the ECHO button to adjust the echo level of the microphone.
- 4. During the playback, press the KEYCON button, then press the (#/b) button. Each time the (#) button is pressed, the key is increased, and each time the (b) button is pressed, the key is decreased.
- Press the MY KARAOKE button to suppress the Vocal. Each time the button is pressed, the selection is changed as follows: Maximum Reduction → Minimum reduction → Original vocals.



- If you hear strange noises (squealing or howling) while using the Karaoke feature, move the microphone away from the speakers. Turning down the microphone's volume or the speaker volume is also effective.
- The microphone does not operate in the AUX and TUNER mode.
- When Speaker Selection is set to TV Speaker, The Microphone is not available.
- After setting my karaoke or the keycon, S.VOL/P.BASS/DSP(EQ)/GIGA does not work.
- MY KARAOKE function doesn't work in D.IN/DIVX state, KEYCON function doesn't work in D.IN/DIVX/USB/MP3/WMA state.
- After the stop operation, the setting of my karaoke and keycon will disappear.



Connecting the FM Antenna

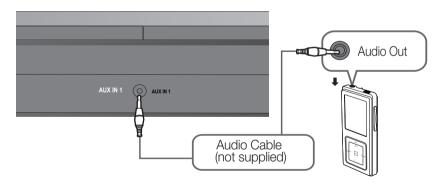


- 1. Connect the FM antenna supplied to the FM Antenna jack.
- Slowly move the antenna wire around until you find a location where reception is good, then fasten it to a wall or other rigid surface.

[®] NOTE

■ This product does not receive AM broadcasts.

Connecting Audio from External Components



AUX1: Connecting an External Component/MP3 player

Components such as an MP3 Player.

- Connect AUX IN 1 (Audio) on the front of the product to the Audio Out of the external component/ MP3 player.
- 2. Press the FUNCTION button to select AUX1 input.
 - The mode switches as follows:
 DVD/CD → D.IN → AUX 1 → AUX 2 → USB → FM

Connecting Audio from External Components White Red Audio Cable (not supplied) If the external analog **Optical Cable** component has only one (not supplied) Audio Out, connect either left or right. **Set-Top Box VCR** AUDIO OUT AUX 2 **OPTICAL**

AUX2: Connecting an External Analog Component

Analog signal components such as a VCR.

- 1. Connect AUX IN 2 (Audio) on the back of the product to the Audio Out of the external Analog component.
 - Be sure to match the colors of the connecting jacks.
- 2. Press the FUNCTION button to select AUX 2 input.
 - . The mode switches as follows: $DVD/CD \rightarrow D.IN \rightarrow AUX 1 \rightarrow AUX 2 \rightarrow USB \rightarrow FM$



You can connect the Video Output jack of your VCR to the TV, and connect the Audio Output jacks of the VCR to this product.

OPTICAL: Connecting an External Digital Component

Digital signal components such as a Cable Box/Satellite receiver (Set-Top Box).

- 1. Connect the DIGITAL AUDIO IN (OPTICAL) on the back of the product to the Digital Output of the external digital component.
- 2. Press the **FUNCTION** button to select **D.IN**.
 - . The mode switches as follows: $DVD/CD \rightarrow D.IN \rightarrow AUX 1 \rightarrow AUX 2 \rightarrow USB \rightarrow FM$

Before Starting (Initial Settings)

1. Press the POWER button when it is plugged in TV for the first time. Initial Settings screen will be displayed.



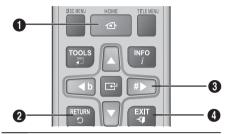
- 2. Press the ▲ ▼ buttons to select the desired language, then press the ENTER button.
- 3. Press the ▲ ▼ buttons to select desired TV Aspect, then press the **ENTER** button.
 - If the HDMI cable is connected to the product, TV aspect does not appear.



- If you have not selected a preferred language in the initial settings, you will see a language selection window next time you turn on the product.
- Your language selection will apply to all menus: On-Screen Menu, Disc Menu, Audio, Subtitle.
- If you want to move to the previous screen, press the A(PREVIOUS) or RETURN button.
- Once you select a menu language, you can change it by pressing the STOP () button on the remote control or the main set for more than 5 seconds in no disc state.
- When the Initial Settings screen does not appear, refer to the Initial Settings. (see page 24)

Setting the Setup menu

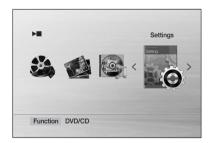
The access step may differ depending on the selected menu. The GUI (Graphical User Interface) in this manual may differ, depending on the firmware version.



- HOME BUTTON: Display the home menu. A
- **RETURN** BUTTON: Return to the previous 0 setup menu.

ENTER / DIRECTION BUTTON

- Move the cursor and select an item. 0 Select the currently selected item. Confirm the setting.
- 4 **EXIT** BUTTON: Exit the setup menu.



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

Display

You can configure various display options such as the TV Aspect, Resolution, etc.

TV Aspect

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

4:3 Pan-Scan



Select when you want to see the 16:9 video supplied by the DVD without the black bars on top and bottom, even though you have a TV with a 4:3 ratio screen(extreme left and right portion of the movie picture will be cut off).

4:3 Letter Box



Select when you want to see the total 16:9 ratio screen DVD supplies, even though you have a TV with a 4:3 ratio screen. Black bars will appear at the top and bottom of the screen.

• 16:9 Wide



You can view the full 16:9 picture on vour widescreen TV.

NOTE

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

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

- 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.

Setup

Audio

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 mSec and 300 mSec. Set it to the optimal status.

Speaker Selection

The audio signals transmitted over the HDMI Cable can be changed Home Theater/TV Speaker.

 Home Theater: Video is transmitted over the HDMI connection cable only, and audio is output through the

product speakers only.

 TV Speaker: 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 Home Theater.
- When TV Selection is set to TV Speaker, DSP EQ/P.BASS/GIGA/S.VOL doesn't work.
- With Speaker Selection set to 'TV Speaker', the volume can be adjusted only using the TV remote control.

User EQ

You can configure the equalizer settings manually to your preference.



Karaoke Scoring

Karaoke score display can be toggled On or Off.

- Off: Turns off the karaoke score display.
- On: After the singing, the score is displayed on the screen.



 In D.IN/USB/DIVX/MP3/WMA state, karaoke scoring does not work.

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 from the Home Cinema speakers if your TV is compatible with the Audio Return Channel function.



- 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 ARCcompliant TV is connected.

System

Initial Settings

By using the Initial Settings, you can set the language and TV aspect .



If an HDMI cable is connected to the product, the TV aspect does not appear and it is set to 16:9 Wide automatically.

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.
Disc Menu	Select the language for the disc menu displays.
Audio	Select the language for disc audio.
Subtitle	Select the language for disc subtitles.

- * To select a language that does not appear in the menu, select OTHERS in the Disc Menu, Audio and Subtitle, and enter the language code of your country (see page 35).
- * You cannot select OTHERS in the OSD Language menu.



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

Security

The Parental Lock function works in conjunction with DVDs that have been assigned a rating, which helps you control the types of DVDs that your family watches. There are up to 8 rating levels on a disc.

Parental Rating

Select the rating level you want to set.

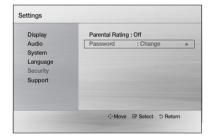
A larger number indicates that the program is intended for adult use only. For example, if you select up to Level 6, discs that contain Level 7, 8 will not play.

Enter the password and then press the ENTER button.

- The password is set to "0000" by default.
- Once the setup is complete, you will be taken to the previous screen.

Change Password

Select Change and enter the 4-digit password to set the parental lock using the number buttons on the remote control.



If you forgot your password

- 1. Remove the disc.
- 2. Press and hold the STOP (■) button on the remote control for 5 seconds or more. All settings will revert to the factory settings.

Support

Product Information

Provide the product information such as Model code. Softrware Version, etc.

Basic Functions

Disc Playback

- Press the OPEN/CLOSE (▲) button.
- 2. Place a disc gently into the tray with the disc's label facing up.
- 3. Press the OPEN/CLOSE (▲) button to close the disc tray.

◎ NOTE

- Resume function: When you stop disc play, the product remembers where you stopped, so when you press PLAY button again, it will pick up where you left off. (This function works only with DVDs.)
 - Press the **STOP** button twice during playback to disable the Resume function.
- If no buttons are pressed on the product or remote control for more than 3 minutes when the product is in Pause mode, it will change to STOP mode.
- The initial screen may appear different, depending on the content of the disc.
- Pirated discs will not play in this product because they violate the CSS(Content Scrambling System: a copy protection system) recommendations.
- * Ø will appear when an invalid button is pressed.

TV Screen Saver/Power Saving Function

- If no button input is made for more than 5 minutes in Stop or Play (music) mode, the screen saver will get activated.
- If the product is left in the screen saver mode for more than 20 minutes, the power will automatically turn off. (Except during play a music)

Audio CD(CD-DA)/MP3/WMA Playback







- 1. Insert an Audio CD(CD-DA) or an MP3 Disc into the disc tray.
 - For an Audio CD, the first track will be played automatically.
 - Press the I≪►►I buttons to move to the previous/next track.
 - For the MP3/WMA disc, 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 (**II**) button to stop playback.

™ NOTE

- Some MP3/WMA-CDs may not play, depending on the recording mode.
- Table of contents of a MP3-CD 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 CD and then played back with this product.

- 1. Insert a JPEG disc on the disc trav.
- Press the ◀▶ buttons to select Photo, and then press the **ENTER** button.
- 3. Press the ▲▼ buttons to select the folder you want to play, and then press the ENTER button.
- 3. 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 (II) 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.



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.

Using the Playback Function

Forward/Reverse Search

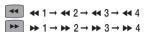








Press the buttons for Search Function.





No sound is played in search mode.

Skipping Scenes/Songs









Press the I buttons.

- Each time the button is pressed during playback. the previous or next chapter, track or directory (file) will be played.
- You cannot skip chapters consecutively.

Slow Motion Play





Press the PAUSE (II) button and then ▶ button for Slow Motion play.





- No sound is heard during slow playback.
- Reverse slow playback does not work.

Basic Functions

Step Motion Play





Press the **PAUSE** button repeatedly.

 The picture moves forward one frame each time the button is pressed during playback.



No sound is heard during step motion playback.

5 Minute Skip function



During playback, press the ◀,▶ button.

- Playback skips 5 minutes forward whenever you press the ▶ button.
- Playback skips 5 minutes backward whenever you press the ◀ button.



You can operate this function only on the DivX.

Using the Disc Menu



You can view the menus for the audio language, subtitle language, profile, etc.

- 1. During playback, press the DISC MENU button on the remote control.
- 2. Press the ▲▼◀▶ buttons to make the desired selection, then press the **ENTER** button.





 Depending on the disc, menu setup items may vary and this menu may not be available.

Using the Title Menu



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

- 1. During playback, press the TITLE MENU button on the remote control.
- 2. Press the ▲▼◀▶ buttons to make the desired selection, then press the **ENTER** button.





 Depending on the disc, menu setup items may vary and this menu may not be available.

Repeat Playback









DVD/DivX Repeat

You can repeat the title, chapter or the section(A-B Repeat) of the DVD/DivX.

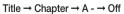


- 1. During DVD/DivX playback, press the **REPEAT** button on the remote control.
- 2. Press the ▲▼ buttons to select a desired repeat mode, then press the **ENTER** button.



3. Press the ▲ ▼ buttons to select OFF to return to normal play, then press the ENTER button.



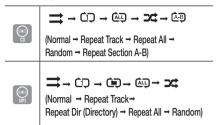




Title → Folder → All → Off

CD/MP3 Repeat

1. During the CD/ MP3 playback, press the **REPEAT** button repeatedly to select the repeat mode you want.



A-B Repeat Playback





You can repeatedly play back a designated section of a DVD or CD.

- 1. During the DVD disc or CD playback, press the **REPEAT** button on the remote control.
- 2. For DVD, press the ▲ ▼ buttons to select A-. For CD press the **REPEAT** button repeatedly until AB appears.
- 3. Press the ENTER button at the point where you want repeat play to start (A).
- 4. Press the ENTER button at the point where you want repeat play to stop (B).
- 5. To return to normal playback. For DVD, press the **REPEAT** button ,then press the ▲▼ buttons to select to OFF. For CD, press the **REPEAT** button to select to

 .

™ NOTE

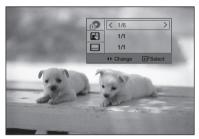
- The A-B Repeat function does not operate with DivX. MP3 or JPEG discs.
- Repeat function is not available during CD/DVD disc is played if karaoke scoring is set to on.

Displaying Disc Information









- 1. During playback, press the TOOLS button on the remote control.
- 2. Press the ▲ ▼ buttons to select the desired item.
- 3. Press the ◀▶ buttons to make the desired setup change and then press the **ENTER** button.
 - You may use the number buttons of the remote control to control some items.
- 4. To make Disc information disappear, press the TOOLS button again.

◎ NOTE

- If you are playing contents from the tools menu, some functions may not be enabled depending on the disc.
- You can also select DTS or Dolby Digital, depending on the disc.
- Some tools menus may differ depending on discs and files.

Basic Functions

TOOLS menu

- Title(): To access the desired title when there is more than one in the disc. For example, if there is more than one movie on a DVD, each movie will be identified as a Title.
- Chapter(♠): Most DVD discs are recorded in chapters so that you can quickly find a specific chapter.
- Playing time(): Allows playback of the film from a desired time. You must enter the starting time as a reference.
 The time search function does not operate on some discs.
- Audio(): Refers to the film's soundtrack language. A DVD Disc can contain up to 8 audio languages.
- Subtitle(): Refers to the subtitle languages available in the disc. You will be able to choose the subtitle languages or, if you prefer, turn them off from the screen. A DVD Disc can contain up to 32 subtitle languages.
- Angle(🙈): When a DVD contains multiple angles of a particular scene, you can use the Angle function.

Selecting the Audio Language





- 1. Press the TOOLS button.
- Press the ▲▼ buttons to select AUDIO (►) display.
- **3.** Press the **◄►** buttons to select the desired audio language.
 - Depending on the of languages on a DVD disc, a different audio language is selected each time the button is pressed.

Selecting the Subtitle Language





- 1. Press the TOOLS button.
- Press the ▲▼ buttons to select SUBTITLE () display.

- 3. Press the ◀► buttons to select the desired subtitle language.
 - Depending on the languages on a DVD disc, a different subtitle language is selected each time the button is pressed.



Depending on the disc, the Subtitle and Audio Language functions may not be available.

Caption Function



- You must have some experience with video extraction and editing in order to use this feature properly.
- To use the caption function, save the caption file (*.smi) in the same file name as that of the DivX media file (*.avi) within the same folder. Example. Root Samsung_007CD1.avi Samsung_007CD1.smi
- Up to 100 alphanumeric characters or 50 East Asian characters (2 byte characters such as Korean and Chinese) for the file name.
- The subtitle of DivX files are *.smi, *.sub, *.srt over 148 kbyte is not supported.

Angle Function



This function allows you to view the same scene in different angles.

- 1. Press the TOOLS button.
- 2. Press the ▲▼ buttons to select ANGLE (😂) display.
- Press the ◀► buttons to select the desired angle.



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

SI FFP

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

Press the **SLEEP** button.

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

10 MIN \rightarrow 20 MIN \rightarrow 30 MIN \rightarrow 60 MIN \rightarrow 90 MIN → 120 MIN → 150 MIN → OFF



Sleep function doesn't work when you connect the microphone to the set in DVD/USB/D.IN mode.

DIMMER

You can adjust the brightness of the display on the main unit.

Press the **DIMMER** button.

Sound Mode

P.BASS

The P.BASS function provides a bass boost to reinforce the low frequencies.

The MP3 ENHANCE function provides better sound quality by upscaling the sampling frequency.



Press the P.BASS button.

2 Channel LPCM source	POWER BASS ON → POWER BASS OFF
MP3 file	MP3 ENHANCE ON → POWER BASS ON →
	POWER BASS OFF



- The P.BASS function is only available with 2 channel LPCM sources such as MP3. DivX. CD and WMA.
- The MP3 Enhancement function is only available MP3 file.

GIGA

The GIGA Sound Function amplifies bass and improves bass twice as much for you to appreciate powerful real sound. The GIGA Sound feature will be applied only to the subwoofer.

Press the GIGA button.



- The GIGA Sound works when in 2-channel LPCM mode only.
- GIGA doesn't work when connecting the microphone to the MIC iack.

S.VOL (SMART VOLUME)

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

Press the S.VOL button.

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



SMART VOLUME ON → SMART VOLUME OFF

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.



Press the S/W LEVEL button.

V-SOUND (Virtual Sound)

Produces realistic sound through 2.1 channel audio system with the aid of virtual effects, this gives you the feeling you are listening to 5.1 channel audio system.

Press the **V-SOUND** button.

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

VSOUND ON → VSOUND OFF

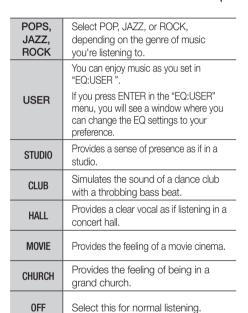


Basic Functions

DSP (Digital Signal Processor)/EQ

- DSP (Digital Signal Processor): DSP modes have been designed to simulate different acoustic environments.
- EQ: You can select POPS, JAZZ, ROCK, or USER. to optimize the sound for the genre of music you are plavina.

Press the **DSP/EQ** button.



NOTE

- 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.
- Some regional EQs are special, such as India. Africa, and so on. Please refer to the display of actual product to operate.

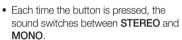
Listening to Radio

Using buttons on the Remote Control

- 1. Press the **FUNCTION** button to select **FM**.
- 2. Tune in to the desired station.
 - Preset Tuning 1: You must first add a desired frequency as a preset. Press the STOP (■) button to select PRESET and then press the TUNING/ **CH** (^>) button to select the preset station.
 - Manual Tuning: Press the STOP (■) button to select MANUAL and then press the TUNING/CH (^>) button to tune in to a lower or higher frequency.
 - Automatic Tuning: Press the STOP (■) button to select MANUAL and then press and hold the TUNING/CH (^ ✓) button to automatically search the band.

Setting Mono/Stereo

Press the MO/ST button.





 In a poor reception area, select MONO for a clear. interference-free broadcast.

Presetting Stations

Example: Presetting FM 89.10 in the memory

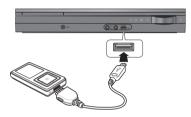
- 1. Press the **FUNCTION** button to select **FM**.
- 2. Press the TUNING/CH (>>) button to select <89.10>.
- 3. Press the TUNER MEMORY button.
 - Number flashes on the display.
- 4. Press the TUNING/CH (~ ∨) buttons to select preset number.
 - You can select between 1 and 15 presets.
- 5. Press the TUNER MEMORY button again.
 - Press the TUNER MEMORY button before number disappears from the display.
 - Number disappears from the display and the station is stored in memory.
- 6. To preset another station, repeat steps 2 to 5.
 - To tune in to a preset station, press the **TUNING/CH** (**^** ∨) buttons on the remote control to select a channel.

Advanced Functions

USB Function

Playing Media Files using the **USB Host Feature**

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



- 1. Connect the USB device to the USB port on the front panel of the product.
- 2. Press the FUNCTION button to select USB.
 - USB appears on the display screen and then disappears.
- Press the ◀▶ buttons to select Videos. Photos. or Music.
 - Select a file to play.

Safe USB Removal

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

- Press the YELLOW(C) button.
 - REMOVE will appear on the display.
- Remove the USB cable.

NOTE

Remove the USB cable from the USB port slowly. Otherwise, it may cause damage to the USB port.

USB Recording

While playing CD-DA (Compact Disc Digital Audio) using the USB Recording function or listening to the FM radio or receiving audio source from an external device, you can record the audio source in the USB memory.

Ex) USB recording of CD-DA audio contents

- 1. Connect the USB device to your product.
- 2. Insert the CD-DA disc into the CD trav.
- Press the **USB REC** button on the remote control.
 - To start recording the current track, press the USB
 DEC button on the remote control while
 USB REC REC button on the remote control while the system is playing a track or stopped temporarily.
 - To record the entire CD, press and hold the USB REC button on the remote control.
 - "FULL RECORDING" appears on the display and recording starts.
- Press the STOP (■) button to stop recording.
 - When USB recording of a CD is completed. you will find a new folder named "RECORDING" in the USB drive. The contents will be saved in the folder in the MP3 format.
 - · When USB recording of FM radio or AUX source is completed, you will find a new folder named "TUNER RECORDING or AUX RECORDING" in the USB drive. The contents will be saved in the folder in the MP3 format.

NOTE

- Do not disconnect the USB connection or the power cable during the USB Recording, Otherwise, it may cause damage to the data.
 - To stop USB Recording, press the STOP button and disconnect the USB device after the system stops playing the CD completely.
- If you disconnect the USB connection during the USB Recording, the system will turn off and you will not be able to delete the recorded file.
- If you connect the USB device to the system while it is playing a CD, the system stops temporarily and will play again.
- DTS-CDs cannot be recorded.
- If the recording duration is less than 5 seconds, a recording file may not be created.
- USB Recording works only if the USB device is formatted in the FAT file system. (The NTFS file system is not supported.)
- The audio signal will not be output during USB recording of the CD in no MIC connecting state. Otherwise, The audio signal will be output during USB recording of the CD in MIC connecting
- When Speaker selection is set to TV Speaker, the USB Recording function is not supported.
- Disconnect the microphone to the set during recording. recording will be stopped.
- The set will be started X3 recording when the Microphone doesn't connect to the set.
- Any button except Stop /Volume/Mute/ Mic Volume/Echo button doesn't work during USB recording.

Other Information

Troubleshooting

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

Symptom	Check/Remedy
I 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 DVD. DVD discs 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 the Play/Pause button is pressed.	Are you using a deformed disc or a disc with scratches on the surface?Wipe the disc clean.
Sound is not produced.	No sound is heard during fast playback, slow playback, and step motion playback. Are the speakers connected properly? Is the disc severely damaged?
Sound can be heard only from a few speakers and not all 3.	On certain DVD discs, sound is output from the front speakers only. Check if the speakers are connected properly. Adjust the volume. When listening to a CD, radio or TV, sound is output to the front speakers only.
The remote control does not work.	Is the remote control being operated within its operation range of angle and distance? Are the batteries drained? Have you selected the correct mode (RECEIVER DVD/TV)?
Disc is rotating but no picture is produced.	Is the TV power on? Are the video cables connected properly?
 Picture quality is poor and picture is shaking. 	Is the disc dirty or damaged?A poorly manufactured disc may not be playable.
Audio language and subtitles do not work.	Audio language and subtitles will not work if the disc does not contain them.
The Disc/Title menu screen does not appear even when the Disc/Title function is selected.	Are you using a disc that does not contain menus?
Aspect ratio cannot be changed.	You can play 16:9 DVDs in 16:9 WIDE mode, 4:3 LETTER BOX mode, or 4:3 PAN SCAN mode, but 4:3 DVDs can be seen in 4:3 ratio only. Refer to the DVD disc jacket and then select the appropriate function.

Symptom	Check/Remedy	
The product is not working. (Example: The power goes out or the front panel key doesn't work or a strange noise is heard.)	Press and hold the STOP (■) button on the remote control for longer than 5 seconds with no disc (reset function). Using the RESET function will erase all stored settings.	
 The product is not working normally. 	Do not use this unless necessary.	
The rating level password has been forgotten.	 While "NO DISC" message appears on the display of the product, press and hold the remote control's STOP () button for longer than 5 seconds. "INIT" appears on the display and all settings will return to the default values. And then press the POWER button. Using the RESET function will erase all stored settings. Do not use this unless necessary. 	
Can't receive radio broadcast.	Is the antenna connected properly? If the antenna's input signal is weak, install an external FM antenna in an area with good reception.	

Language code list

Enter the appropriate code number for OTHERS in the Disc Menu, Audio and Subtitle. (See page 25).

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

Other Information

		Specifications			
	Weight	2.3 Kg			
General	Dimensions	430 (W) x 61 (H) x 242 (D) mm			
General	Operating Temperature Range	+5°C~+35°C			
	Operating Humidity Range	10 % to 75 %			
	Signal/noise ratio	60 dB			
FM Tuner	Usable sensitivity	10 dB			
	Total harmonic distortion	1 %			
	DVD (Digital Versatile Disc)	Reading Speed: 3.49 ~ 4.06 m/sec.			
		Approx. Play Time (Single Sided, Sing	lle Layer Disc) : 135 min.		
Disc	CD: 12 cm (COMPACT DISC)	Reading Speed: 4.8 ~ 5.6 m/sec.			
	· , , , , , , , , , , , , , , , , , , ,	Maximum Play Time : 74 min. Reading Speed : 4.8 ~ 5.6 m/sec.			
	CD : 8cm (COMPACT DISC)	Maximum Play Time : 20 min.			
		· ·			
Video Output	Composite Video	576i/480i 1 channel : 1.0 Vp-p (75 Ω load)			
Video/Audio	HDMI				
VIUCO/Audio	Front speaker output				
		166W(3Ω)			
	Subwoofer output	20Hz~20KHz			
Amplifier	Frequency range				
·	S/N Ratio	65dB			
	Channel separation	60dB			
	Input sensitivity	(AUX)800mV			
Speaker system		2.1ch spea	aker system		
	Speaker System	Front	Subwoofer		
	Impedance	3 Ω	3 Ω		
	Frequency range	140Hz~20KHz	20Hz~160Hz		
	Output sound pressure level	86dB/W/M	88dB/W/M		
Speaker	Rated input	167W	166W		
	Maximum input	334W	332W		
	Dimensions (W x H x D)	Front: 68.5 x 471 x 90 mm (stand base: 162 x 162 mm) Subwoofer: 168 x 350 x 285 mm			
	Weights	Front: 1.44 Kg, Subwoofer	: 3.67 Kg		

^{*:} Nominal specification

- Samsung Electronics Co., Ltd reserves the right to change the specifications without notice.
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• Middle East Bahrain Egypt Jordan Morocco Oman Saudi Arabia Turkey	8000-4726 08000-726786 800-22273 080 100 2255 800-SAMSUNG (726-7864) 9200-21230 444 77 11	www.samsung.com www.samsung.com www.samsung.com www.samsung.com www.samsung.com www.samsung.com		
Bahrain Egypt Jordan Morocco Oman Saudi Arabia Turkey U.A.E	8000-4726 08000-726786 800-22273 080 100 2255 800-SAMSUNG (726-7864) 9200-21230	www.samsung.com www.samsung.com www.samsung.com www.samsung.com www.samsung.com www.samsung.com		
• Middle East Bahrain Egypt Jordan Morocco Oman Saudi Arabia Turkey U.A.E • Africa	8000-4726 08000-726786 800-22273 080 100 2255 800-SAMSUNG (726-7864) 9200-21230 444 77 11 800-SAMSUNG (726-7864)	www.samsung.com www.samsung.com www.samsung.com www.samsung.com www.samsung.com www.samsung.com www.samsung.com		
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