SAMSUNG

Blu-ray™ Disc Player
user manual

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please register your product at

www.samsung.com/register

ENGLISH

Safety Information

Warning

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

	CAUTION	
	RISK OF ELECTRIC SHOCK **DO NOT OPEN**	
The lighting flash and Arrowhead within the triangle is a warning sign alerting you of dangerous voltage inside the product.	**CAUTION**: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.	The explanation point within the triangle is a warning sign alerting you of important instructions accompanying the product.

WARNING

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

FCC NOTE (for U.S.A)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on.

The user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect this equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- This class B digital product meets all requirements of the Canadian Interference - Causing Equipment Regulations.

Note to CATV system installer

This reminder is provided to call CATV system installer's attention to Article 820-40 of the National Electrical Code (Section 54 of Canadian Electrical Code, Part I) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

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.

Complies with 21CFR 1040.10 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

DANGER :

- VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM. (FDA 21 CFR)

CAUTION :

- CLASS 3B VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO THE BEAM. (IEC 60825-1)
- THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVER AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

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

| NOTE |

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

Precautions

Important Safety Instructions

Read these operating instructions carefully before using the unit. Follow all the safety instructions listed below.
Keep these operating instructions handy for future reference.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including AV receivers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where it exits the apparatus.

11. Only use attachments/accessories specified by the manufacturer.

12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

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 protection jacket and store vertically.

Handling Cautions

- Do not expose this apparatus to dripping or splashing. Do not put objects filled with liquids, such as vases on the apparatus.
- To turn this apparatus off completely, you must pull the power plug out of the wall socket. Consequently, the power plug must be easily and readily accessible at all times.

- Do not plug multiple electric devices into the same wall socket. Overloading a socket can cause it to overheat, resulting in a fire.
- Maintenance of Cabinet.
  - Before connecting other components to this player, be sure to turn them off.
  - If you move your player 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 player, wait for two hours, and then connect the plug to the power outlet. Then, insert the disc, and try to play back again.
- If the product makes an abnormal noise or produces a burning smell or smoke, turn off the power switch immediately and disconnect the power plug from the wall outlet. Then, contact the nearest customer service center for technical assistance. Do not use the product. Using the product as it is may cause a fire or an electric shock.

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Contents

Getting Started

Disc and Format Compatibility

Disc types and contents your player can play

Media	Disc Type	Details
VIDEO	Blu-ray Disc	BD-ROM or BD-RE/-R recorded in the BD-RE format.
	DVD-VIDEO DVD-RW DVD-R DVD+RW DVD+R	DVD-VIDEO, recorded DVD+RW/DVD-RW(V)/DVD-R/+R that have been recorded and finalized, or a USB storage media containing MKV, MP4 contents.
MUSIC	CD-RW/-R, DVD-RW/-R, BD-RE/-R	Music recorded on CD-RW/-R, DVD-RW/-R, BD-RE/-R 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 or a USB storage media containing JPEG contents.

| NOTE |

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

▸ If a DVD-RW/-R has not been recorded properly in DVD video format, it will not be playable.

▸ Your player will not play content that has been recorded on a DVD-R at a bit-rate that exceeds 10 Mbps.

▸ Your player will not play content that has been recorded on a BD-R or USB device at a bitrate that exceeds 25 Mbps.

▸ Playback may not work for some types of discs, or when you use specific functions, 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 player cannot play

- HD DVD
- DVD-ROM/PD/ MV, etc
- DVD-RAM
- Super Audio CD (except CD layer)
- DVD-RW(VR mode)
- CVD/CD-ROM/ CDV/CD-G/CD-I/LD (CD-Gs play audio only, not graphics.)
- 3.9 GB DVD-R for Authoring.

| NOTE |

▸ This player may not respond to all operating commands because some Blu-ray Discs, DVDs, and CDs allow specific or limited operation and provide only certain features during playback. Please note that this is not a defect in the player.

▸ Samsung cannot guarantee that this player 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 Center at 1-800-726-7864 if you have questions or encounter difficulty when playing Blu-ray Disc, DVD, or CD in this player. Also, refer to rest of this user manual for additional information on playback restrictions.

▸ Some commercial discs and DVDs purchased outside your region may not play on this player.

Getting Started

Region Code

Both players 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 player is displayed on the rear panel of the player.

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.
DVD-VIDEO	①	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
	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

Logos of Discs the player can play

Blu-ray Disc	BD-LIVE

NTSC

NTSC broadcast system in U.S.A, Canada, Korea, Japan

Supported Formats

Video File Support

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bitrate (Mbps)	Audio Codec
*.avi *.mkv *.asf *.wmv *.mp4 *.3gp *.vro *.mpg *.mpeg *.ts *.tp *.trp	AVI MKV ASF MP4 3GP VRO VOB PS TS	MPEG4 SP/ASP	1920x1080	6~30	20	Dolby Digital LPCM AAC HE-AAC WMA MP3 DTS
		H.264 BP/MP/HP	1920x1080	6~30	25	
		Window Media Video v9	1920x1080		25	
		MPEG2	1920x1080	24/25/30	25	
		MPEG1	352x288	24/25/3	20	

▪ Limitations

- Even when a file is encoded by a supported codec listed above, the file might not be played if its content is defective or corrupted.
- Normal playback is not guaranteed if the file's container information is wrong or the file itself is corrupted.
- Files having higher bit or frame rates than standard may stutter when played back.
- The seek (skip) function is not available if the file's index table is damaged.
- When you playback a file remotely through a network connection, video playback may stutter depending on the network speed.
- Some USB/Digital camera devices may not be compatible with the player.

▪ Video decoder
- Supports up to H.264 Level 4.1
- Does not support GMC 2 or higher

▪ Audio decoder
- Supports WMA 7, 8, 9 and STD
- Does not support WMA 9 PRO multi-channel or lossless audio if the number of channels is more than 2.
- Does not support WMA sampling rate of 22050Hz mono.

▪ Comments
- MPEG4 : Supports up to GMC 1-Warping Point.
- H.264 : Supports up to BP/MP/HP Level 4.1.
- WMV : Supports V9, VC1 SP/MP/AP L3.
- MPEG1 : Does not support D-picture.
- MPEG2 : Supports up to Hight Profile High Level.

| NOTE |
▸ Some MKV and MP4 format discs may not play, depending on their video resolution and frame rate.

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 * Bitrates - All bitrates in the range 5kbps to 384kbps.

Notes on the USB connection

- Your player supports USB storage media, MP3 players, digital cameras, and USB card readers.
- Some USB/digital camera devices may not be compatible with the player.
- Your player supports the FAT16, FAT32, and NTFS files systems.
- Connect USB devices directly to the player'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 player does not support the PTP protocol.
- Do not disconnect a USB device during a "loading" process.
- The bigger the image resolution, the longer the image takes to display.
- This player cannot play MP3 files with DRM (Digital Rights Management) downloaded from commercial sites.
- Your player only supports video that is under 30fps (frame rate).
- Your player 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 player.
- If a USB device requires excessive power, it 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.
- You must remove USB Storage devices using the "**Safely Remove USB**" function to prevent possible damage to the USB memory.
  Press the **HOME** button to move to the home screen, press the **YELLOW (C)** button, and then press the 🔘 button.
- SAMSUNG is not responsible for any data file damage or data loss.
- Your player does not support NTSF compressed files, sparse files, or encrypted files.
  - You can repair or format a USB device on your Desktop PC. (MS-Windows OS only)

AVCHD (Advanced Video Codec High Definition)

- This player 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.Color" format. This player can play back AVCHD discs that use "x.v.Color" format.

- "x.v.Color" is a trademark of Sony Corporation.
- "AVCHD" and the AVCHD logo are trademarks of Matsushita Electronic Industrial Co., Ltd. and Sony Corporation.

| NOTE |

▶ Some AVCHD format discs may not play, depending on the recording conditions.
  AVCHD format discs need to be finalized.

▶ "x.v.Color" offers a wider color range than normal DVD camcorder discs.

Accessories

Check for the supplied accessories below.

Batteries for Remote Control (AAA Size) (BN43-00004A)	User Manual (AK68-02227A)
Quick Guide (AK68-02232A)	Remote Control (AK59-0145A)
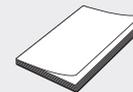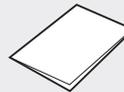
Front Panel

OPEN/CLOSE BUTTON

PLAY/PAUSE
BUTTON
POWER BUTTON

SAMSUNG *Blu-ray Disc*

DISPLAY

USB HOST

REMOTE CONTROL SENSOR

DISC TRAY
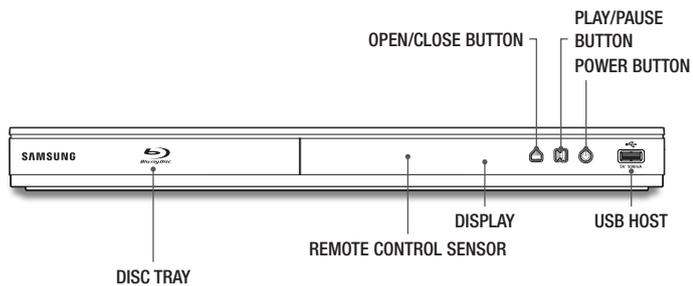
| NOTE |

‣ To upgrade the player's software through the USB Host jack, you must use a USB memory stick.

‣ When the player displays the Blu-ray Disc menu, you cannot start the movie by pressing the Play button on the player or the remote. To play the movie, you must select Play Movie or Start in the disc menu, and then press the ⊡ button.

Rear Panel

DIGITAL
AUDIO OUT

COAXIAL

LAN

HDMI OUT

LAN

HDMI OUT

DIGITAL AUDIO OUT
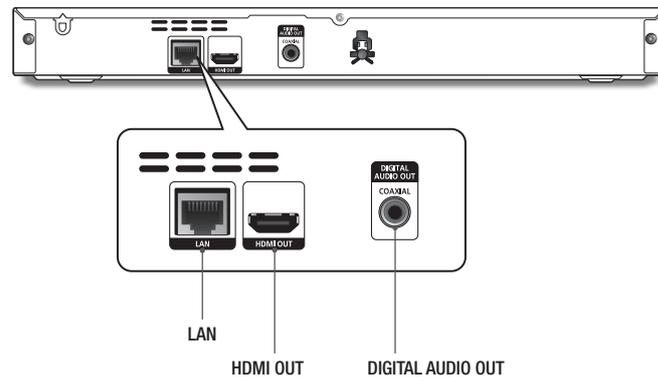
Getting Started

Remote Control

Tour of the Remote Control

After setup, allows you to select the input source on your TV. (This button only works with Samsung TVs.)

Turn the player on and off.

Press to open and close the disc tray.

Press numeric buttons to operate options.

Use to enter the disc menu.

Press to skip backwards or forwards.

Press to stop a disc.

Press to move to the home menu.

Press to use Netflix.

Press to use the Tools menu.

Return to the previous menu.

These buttons are used both for menus on the player and also several Blu-ray Disc functions.

Press to use the Disc to Digital function.

Press to use Pandora.

Turn the TV on and off. (This button only works with Samsung TVs.)

TV volume adjustment. (This button only works with Samsung TVs.)

Use to enter the popup menu/title menu.

Press to search backwards or forwards.

Press to pause a disc.

Press to play a disc.

Press to use Smart Hub.

Use to display the playback information.

Use to select menu items and change menu values.

Press to exit the menu.

Press to use the full screen function.

Press to switch the Blu-ray Disc/DVD's subtitle language.

Installing batteries

| NOTE |

▶ If the remote does not operate properly:
- Check the polarity +/– of the batteries.
- Check if the batteries are drained.
- Check if the remote sensor is blocked by obstacles.
- Check if there is any fluorescent lighting nearby.

| CAUTION |

▶ Dispose of batteries according to local environmental regulations. Do not put them in the household trash.

Connections

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.
- Do not connect the power cord to the wall outlet until you have made all the other connections.
- When you change the connections, turn off all devices before you start.
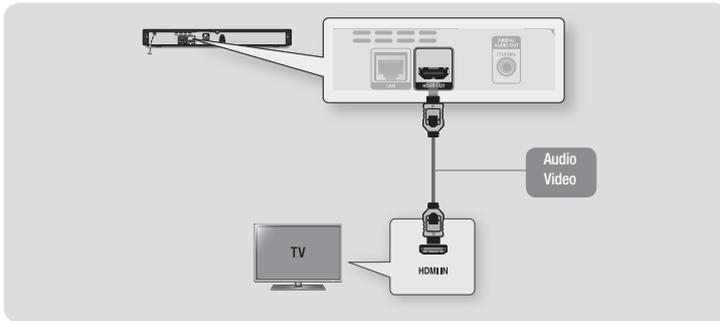
| NOTE |

▸ If you use an HDMI-to-DVI cable to connect to your display device, you must also connect the Digital Audio Out on the player to an audio system to hear audio.

▸ An HDMI cable outputs digital video and audio, so you don't need to connect an audio cable.

▸ Depending on your TV, certain HDMI output resolutions may not work. Please refer to the user manual of your TV.

▸ When you connect the player to your TV using the HDMI cable or to a new TV, and then turn it on for the first time, the player automatically sets the HDMI output resolution to the highest supported by the TV.

▸ A long HDMI cable may cause screen noise. If this occurs, set HDMI Deep Color to Off in the menu.

▸ To view video in the HDMI 720p, 1080i, or 1080p output mode, you must use a High speed (category 2) HDMI cable.

▸ 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.

Connecting to an Audio System

You can connect the Blu-ray player to an audio system using one of the methods illustrated below.
- Do not connect the power cord to the wall outlet until you have made all the other connections.
- When you change the connections, turn off all devices before you start.

Method 1 Connecting to an HDMI supported AV receiver

- Connect an HDMI cable (not supplied) from the HDMI OUT jack on the back of the product to the HDMI IN jack on your receiver.
- Best quality (Recommended)

Method 2 Connecting to an AV receiver with Dolby Digital or DTS decoder

- Using a digital Coaxial cable (not supplied), connect the Coaxial Digital Audio Out jack on the product to the Digital Coaxial In jack of the receiver.
- Good quality
- You will hear sound only through the front two speakers with Digital Output set to PCM.
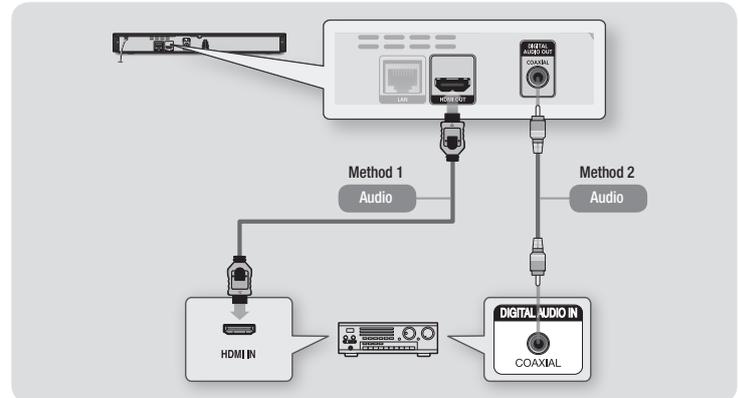
Connections

Connecting to a Network Router

You can connect your player to your network router using one of the methods illustrated below.

To use the AllShare network functionality, you must connect your PC to your network as shown in the illustrations.
The connection can be wired or wireless.

Wired Network

Broadband modem
(with integrated router)

Broadband
service

Or

PC

Router

Broadband
service

Broadband
modem

PC
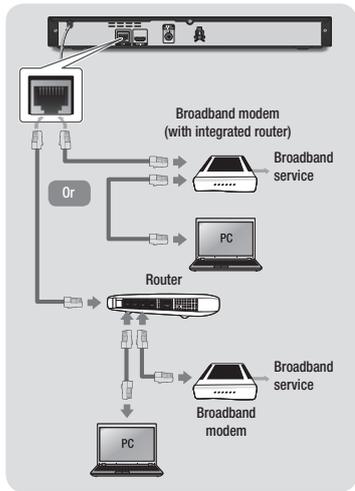
| NOTE |

▸ Internet access to Samsung's software update server may not be allowed, depending on the router you use or your ISP's policy. For more information, contact your ISP (Internet Service Provider).

▸ DSL users, please use a router to make a network connection.

Wireless Network

PC

Wireless Router

Broadband
service
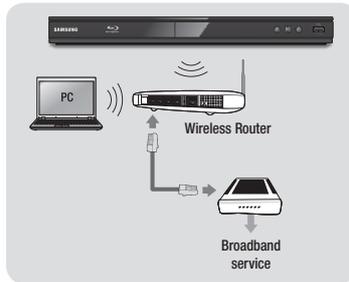
| NOTE |

▸ If your wireless router supports DHCP, this player can use a DHCP or static IP address to connect to the wireless network.

▸ Set your wireless router to Infrastructure mode. Ad-hoc mode is not supported.

▸ The player supports only the following wireless security key protocols:
  - WEP (OPEN/SHARED), WPA-PSK (TKIP/AES), WPA2-PSK (TKIP/AES)

▸ Select a channel on the wireless router that is not currently being used. If the channel set for the wireless router is currently being used by another device nearby, it will result in interference and communication failure.

▸ If you select the Pure High-throughput (Greenfield) 802.11n mode and set the Encryption type on your router to WEP, TKIP or TKIP-AES (WPS2Mixed), the player will not support a connection in compliance with new Wi-Fi certification specifications.

▸ Wireless LAN, by its nature, may cause interference, depending on the operating conditions (router performance, distance, obstacles, interference by other radio devices, etc).

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 player after you upgrade the software version.
- The access steps may differ depending on the menu you selected.

The Initial Settings Procedure lets you set the OSD and menu languages, configure the connection to your home network, choose the aspect ratio output (screen size and format) that is correct for your TV.

For complete Initial Settings instructions, see the Quick Start Guide.

| NOTE |

▸ If you skip Network Setup during the Initial Settings procedure, you can configure your network settings later. See "Configuring Your Network Connection" on pages 17~18 for instructions.

▸ If you want to display the Initial Settings screen again and make changes, select Settings > System > Initial Settings in the Home screen or select the Reset option. (See page 15)

▸ If you want to use an Anynet+(HDMI-CEC) function, please follow the instructions below.
 1) Connect the player to an Anynet+(HDMI-CEC)-compliant Samsung TV using HDMI Cable.
 2) Set the Anynet+(HDMI-CEC) feature to On in both the TV and the player.
 3) Set the TV to the Initial Settings Procedure.

The Home Screen
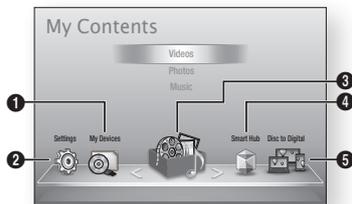
❶	**My Devices** : Lets you select a connected device to play or access. The device can be the player itself, a device directly connected to the player, such as a USB thumb drive, or a device connected via your network, such as a shared drive on your PC.
❷	**Settings** : Set various functions to suit your personal preferences.
❸	**My Contents** : Lets you select contents located on connected devices by type to view or play: You can select videos, photos, or music.
❹	**Smart Hub** : Starts Smart Hub. From Smart Hub, you can access YouTube, games, and other apps.
❺	**Disc to Digital** : Access you movie collection via cloud storage anytime, any place without your DVD disc.

■ Selecting an Option on the Home Screen

1. To select an option on the Home screen, move the cursor using the ◄► buttons until it highlights the option of your choice, and then press the button.

| NOTE |

▸ If you leave the player in the stop mode for more than 5 minutes without using it, a screen saver will appear on your TV. If the player is left in the screen saver mode for more than 20 minutes, the power will automatically turn off.

Accessing the Settings Screen

1. Select **Settings** on the Home screen, and then press the button. The Settings screen appears.
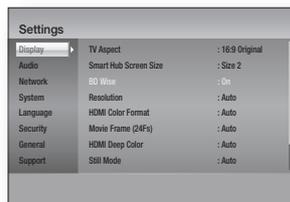
2. To access the Settings menus, sub-menus, and options, please refer to the remote control illustration and the table to the right.

Buttons on the Remote Control Used for the Settings Menu
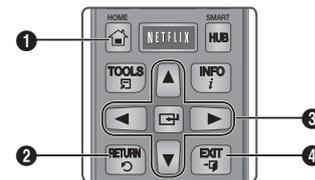
❶	**HOME** Button : Press to move to the Home screen.
❷	**RETURN** Button : Return to the previous menu.
❸	**(Enter) / DIRECTION** Buttons : • Press ▲▼◄► to move the cursor or select an item. • Press the button to activate the currently selected item or confirm a setting.
❹	**EXIT** Button : Press to 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 right side of the screen. A short description of each Settings function starts on the next page. Additional information on some of the functions is also in the Appendix of this manual.

Settings

Settings Menu Functions

Display		
	TV Aspect	Lets you adjust the output of the player to the screen size and screen format of your TV.
	Smart Hub Screen Size	Lets you select the optimal size for the Smart Hub Screen.
	BD Wise	BD Wise is Samsung's latest inter-connectivity feature. When you connect a Samsung player and a Samsung TV with BD Wise to each other via HDMI, and BD Wise is on in both the player and TV, the player outputs video at the video resolution and frame rate of the Blu-ray Disc/DVD.
	Resolution	Set the output resolution of the HDMI video signal to Auto, 1080p, 1080i, 720p or 480p. The number indicates the number of lines of video per frame. The i and p indicate interlaced and progressive scan, respectively. Generally, the higher the number of lines, the higher the picture quality.
	HDMI Color Format	Lets you set the color space format for the HDMI output so that it matches the capabilities of the connected device (TV, monitor, etc). The screen goes black momentarily after you have selected a format.

Display		
	Movie Frame (24Fs)	If the player is connected to a 24Fs compatible TV, setting the Movie Frame (24Fs) feature to Auto lets the player adjust its HDMI output to 24 frames per second automatically for improved picture quality. • You can enjoy the Movie Frame (24Fs) feature only on a TV supporting this frame rate. • Movie Frame is only available when the player is in the HDMI 1080i or 1080p output resolution modes.
	HDMI Deep Color	Lets you set the product to output HDMI video with Deep Color. Deep Color provides more accurate color reproduction with greater color depth.
	Still Mode	Lets you set the type of picture the player displays when you pause DVD playback.
	Progressive Mode	Lets you improve picture quality when viewing DVDs.

Audio		
	Digital Output	Lets you select the digital audio output format that is suitable for your TV or AV Receiver. For more details, see the digital output selection table on pages 29~30.
	PCM Downsampling	Lets you choose to have 96Khz PCM signals downsampled to 48Khz before they are outputted to an amplifier. Choose On if your amplifier or receiver is not compatible with a 96Khz signal.
	Dynamic Range Control	Lets you apply dynamic range control to Dolby Digital, Dolby Digital Plus, and Dolby True HD audio. ✓ **Auto** : Automatically controls the dynamic range of Dolby TrueHD audio, based on information in the Dolby TrueHD soundtrack. Also turns dynamic range control on 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 player downmix to normal stereo or to surround compatible stereo.

Network		
	Network Settings	Configure the network connection so you can enjoy various features such as Internet services or AllShare, and perform software upgrades.
	Network Status	Lets you check the current network and Internet status.
	BD-Live Internet Connection	Set to allow or prohibit an Internet connection when you use the BD-LIVE service.

System		
	Initial Settings	You can set the language, Network Settings, etc. by using the Initial Settings function.
	Quick Start	Lets you set the player to turn on quickly by decreasing the boot time. I NOTE I ▸ If this function set to **On**, Standby power consumption will be increased.
	Anynet+ (HDMI-CEC)	Anynet+ is a convenient function that offers linked operations with other Samsung players that have the Anynet+ feature and lets you control those products with one Samsung TV remote. To operate this function, you must connect this player to an Anynet+ Samsung TV using an HDMI cable.
	BD Data Management	Lets you manage the downloaded contents you accessed through a Blu-ray Disc that supports the BD-LIVE service.
	Time Zone	You can specify the time zone that is applicable to your area.
	Reset	Resets all settings to their default settings except for the network and Smart Hub settings. The default security PIN is 0000.

Settings

Language	You can select the language you prefer for the Home menu, disc menu, etc. ✓ **On-Screen Menu** : Select the language for the on-screen displays. ✓ **Disc Menu** : Select the language for the disc menu displays. ✓ **Audio** : Select the language for the disc audio. ✓ **Subtitle** : Select the language for the disc subtitles. | NOTE | ▸ 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 password. ✓ **BD Parental Rating** : Prevents playback of Blu-ray Discs with a rating equal to or above a specific age rating unless you enter the security PIN. ✓ **DVD Parental Rating** : Prevents playback of DVDs with a rating above a specific numerical rating unless you enter the security PIN. ✓ **Change Password** : Change the 4-digit PIN used to access security functions. ■ If you forgot your PIN: 1. Remove any disc or USB storage device. 2. Press and hold the ▶❚❚ button on the front panel for 5 seconds or more. All settings will revert to the factory settings.

General	**Network Remote Control**	The Network Remote Control function lets you control your Blu-ray Disc player from a remote device such as a smart phone through a wireless connection to your local area network. 1. Select **On** in the Network Remote Control menu. 2. Install the Samsung network remote control application to control your player on your compatible portable device. 3. Make sure your portable device and your player are connected to the same wireless router. 4. Start the application on your portable device. The application should find your player and display it on a list. 5. Select the player. 6. If this is the first time you are using the function, it will ask you to allow or deny remote control of the player. Select Allow. 7. Follow the instructions that came with the application to control the player.
Support	**Software Upgrade**	For more information about the Software Upgrade function, see "Upgrading Software" on pages 18~19.
	Contact Samsung	Provides contact information for assistance with your player.

Networks and the Internet

When you connect this player to a network, you can use network based applications and functions such as Smart Hub and BD-LIVE, and upgrade the player's software through the network connection. For more information about accessing and using Internet services, see the Network Services chapter of this manual on pages 23~24. Instructions for configuring the network connection start below.

Configuring Your Network Connection

Before you begin, contact your ISP to find out if your IP address is static or dynamic. If it is dynamic, and you have a wired or wireless network, we recommend using the Automatic configuration procedures described below. If you are connecting to a wired network, connect the player to your router using a LAN cable before you start the configuration procedure.
If you are connecting to a wireless network, disconnect any wired network connection before you begin.

To begin configuring your network connection, follow these steps:

1. In the Home menu, select **Settings**, and then press the ⏎ button.
2. Select **Network**, and then press the ⏎ button.

3. Select **Network Settings**, and then press the ⏎ button.
    The Network Settings screen appears.
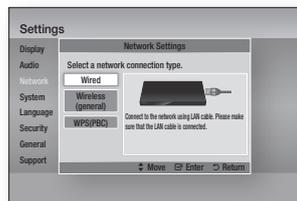
Wired Network

❑ **Wired - Automatic**

To setup, follow steps 1 to 3 in "Configuring Your Network Connection" on page 17.

1. Select **Wired** in the Network Settings screen, and then press the ⏎ button. The Network Status screen appears. The player verifies the network connection and then connects to the network.

❑ **Wired - Manual**

If you have a static IP address or the Automatic procedure does not work, you'll need to set the Network Settings values manually.

1. Select **Wired** in the Network Settings screen, and then press the ⏎ button. The Network Status screen appears. The player attempts to verify the network connection and fails.
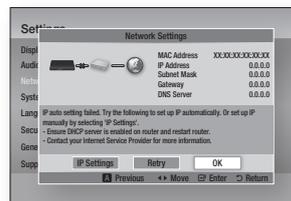
2. Select **IP Settings** on the bottom of the screen, and press the ⏎ button. The IP Settings screen appears.
3. Select the **IP Mode** field, and then set it to Manual.
4. Use the number keypad on your remote to enter the Network values. Use the ▲▼◄► buttons on the remote to move from entry field to entry field.
5. When done, highlight **OK**, and then press the ⏎ button. The Network Status screen appears. The player verifies the network connection and then connects to the network.

< Getting the IP Settings values >

You can view your Network Settings values on most Windows computers. To view the Network Settings values, follow these steps:

• Windows XP

1. Right click the Network icon on the bottom right of the Windows desktop.
2. In the pop-up menu, click Status.
3. On the dialog that appears, click the Support tab.

4. On the Support tab, click the Details button.
    The Network settings are displayed.

• Windows 7

1. Click the Network icon on the bottom right of the Windows desktop.
2. In the pop-up menu, click Network and Sharing Center.
3. On the dialog that appears, click the Local Area Connection or Wireless Network Connection depending on your network connection.
4. On the Support tab, click the Details button.
    The Network settings are displayed.

| NOTE |
▶ Depending on your Windows version, the information may differ.

Wireless Network

You can setup a wireless network connection in three ways:
-   Wireless Automatic
-   Wireless Manual
-   WPS(PBC)

When you configure the wireless network connection, any wireless network devices currently connected through the player or, if applicable, the player's current wired connection, will be disconnected.

❑ **Wireless (general) - Automatic**

To setup, follow steps 1 to 3 in "Configuring Your Network Connection" on page 17.

1. Select **Wireless (general)** in the Network Settings screen, and then press the ⏎ button.
The player searches for and then displays a list of the available networks.
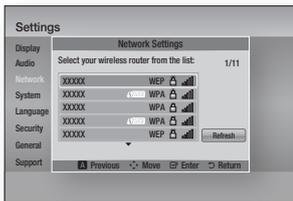
2. Select the desired network, and then press the ⏎ button.
The Security screen appears.

3. On the Security screen, enter your network's Security Code or Pass Phrase.
Enter numbers directly using the number buttons on your remote control. Enter letters by selecting a letter with an arrow button, and then pressing the ⏎ button.

4. When done, select **Done** at the bottom of the screen, and then press the ⏎ button. The Network Status screen appears. The player verifies the network connection and then connects to the network.

| NOTE |

▶ You should be able to find the Security Code or Pass Phrase on one of the set up screens you used to set up your router or modem.

❑ **Wireless (general) - Manual**

If you have a static IP address or the Automatic procedure does not work, you'll need to set the Network Settings values manually.

After following Steps 1 to 3 in "Configuring Your Network Connection" on page 17.

1. Select **Wireless (general)** in the Network Settings screen, and then press the ⏎ button.
The Network Status screen appears.
The player attempts to verify the network connection and fails.
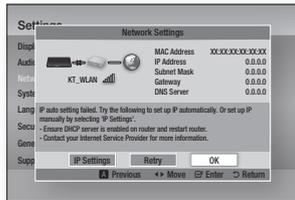
2. Select **IP Settings** on the bottom of the screen, and then press the ⏎ button.
The IP Settings screen appears.

3. Select the **IP Mode** field, and then set it to Manual.
- For the IP setting values, see "Getting the IP Settings values" on page 17.

4. Use the number keypad on your remote to enter the Network values. Use the ▲▼◄► buttons on the remote to move from entry field to entry field.

5. When done, highlight **OK**, and then press the ⏎ button.
The Security screen appears.

6. On the Security screen, enter your network's Security Code or Pass Phrase.
Enter numbers directly using the number buttons on your remote control. Enter letters by selecting a letter with an arrow button, and then pressing the ⏎ button.

7. When done, select **Done** at the bottom of the screen, and then press the ⏎ button. The Network Status screen appears. The player verifies the network connection and then connects to the network.

❑ **WPS(PBC)**

To setup, follow steps 1 to 3 in "Configuring Your Network Connection" on page 17.

1. Select **WPS(PBC)** in the Network Settings screen, and then press the ⏎ button.
The player searches for and then displays a list of the available networks.

2. Press the **WPS(PBC)** button on your router within two minutes. Your player automatically acquires all the network settings values it needs and connects to your network. The Network Status screen appears. The player connects to the network after the network connection is verified.

Upgrading Software

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

- Never turn the player off or back on manually during the update process.

1. In the Home screen, select **Settings**, and then press the ⏎ button.

2. Select **Support**, and then press the ⏎ button.

3. Select **Software Upgrade**, and then press the ⏎ button.

4. Select one of the following methods:
   - By Internet
   - By USB
   - By Disc
   - By Downloaded
   - Download in Standby Mode

5. Press the ⏎ button.

| NOTE |

▶ The upgrade is complete when the player turns off, and then turns on again by itself.

▶ Samsung Electronics takes no legal responsibility for player malfunction caused by an unstable Internet connection or consumer negligence during a software upgrade.

▶ If you want to cancel the upgrade while the upgrade software is downloading, press the ⏎ button.

▶ When the system upgrade is progressing, "UP" is displayed on the front panel.

By Internet

Your player must be connected to the Internet to use the By Internet function.

1. Select **By Internet**, and then press the ⏎ button. The Connecting to Server message appears.

2. If there is a download available, the Download pop-up appears with a progress bar and the download starts.

3. When the download is complete, the Upgrade Query window appears with three choices: Upgrade Now, Upgrade Later, or Don't Upgrade.

4. If you select Upgrade Now, the player upgrades the software, turns off, and then turns on automatically.

5. If you do not make a selection in one minute or select Upgrade Later, the player stores the new upgrade software. You can upgrade the software later using the By Downloaded function.

6. If you select Don't Upgrade, the player cancels the upgrade.

By USB

1. Visit www.samsung.com.

2. Click **SUPPORT** on the top right of the page.

3. Enter the product's model number into the search field, and then click **Find Product**.

4. Click **Get downloads** in the center of the page below the Downloads header.

5. Click **Firmware** in the center of the page.

6. Click the **ZIP** icon in the File column on the right side of the page.

7. Click **OK** in the pop-up that appears to download and save the firmware file to your PC.

8. Unzip the zip archive to your computer. You should have a single folder with the same name as the zip file.

9. Copy the folder to a USB flash drive.

10. Make sure no disc is inserted in the player, and then insert the USB flash drive into the USB port of the player.

11. In the player's menu, go to Settings > Support > Software Upgrade.

12. Select **By USB**.

| NOTE |

‣ There should be no disc in the player 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.

‣ Do not turn off the player during the software upgrade.
  It may cause the player to malfunction.

‣ Software upgrades using the USB Host jack must be performed with a USB flash memory stick only.

By Disc

1. Follow Steps 1 through 7 in **By USB**.

2. Unzip the zip archive to your computer. You should have a single folder with the same name as the zip file.

3. Write the folder onto a disc. We recommend a CD-R or DVD-R.

4. Finalize the disc before you remove it from your computer.

5. Insert the disc into the player.

6. In the player's menu, go to Settings > Support > Software upgrade.

7. Select **By Disc**.

| NOTE |

‣ When the system upgrade is done, check the software details in the software Upgrade menu.

‣ Do not turn off the player during the Software Upgrade.
  It may cause the player malfunction.

By Downloaded

The By Downloaded option lets you upgrade using a file the player downloaded earlier but you decided not to install immediately or a file downloaded by the player in Standby Mode.

1. If upgrade software has been downloaded, you will see the software version number to the right of By Downloaded.

2. Select **By Downloaded**, and then press the ⏎ button.

3. The player displays a message asking if you want to upgrade. Select **Yes**. The player begins the upgrade.

4. When the update is complete, the player turns off automatically, and then turns on.

| NOTE |

‣ When the system upgrade is done, check the software details in the software Upgrade menu.

‣ Do not turn off the player during the software Upgrade.
  It may cause the player to malfunction.

Download in Standby Mode

You can set the Download in Standby Mode function so that the player downloads new upgrade software when it is in Standby Mode. In Standby Mode, the player is off, but its Internet connection is active. This allows the player to download upgrade software automatically, when you are not using it.

1. Press the ▲▼ buttons to select **Download in Standby Mode**, and then press the ⏎ button.

2. Select **On** or **Off**.
   If you select **On**, the player will automatically download new upgrade software when it is in Standby Mode with the power off. If it downloads new upgrade software, the player will ask you if you want to install it when you turn the player on.

| NOTE |

‣ To use Standby Mode Upgrade function, your player must be connected to the Internet.

Media Play

Your Blu-ray player can play Disc and USB contents and the contents located on your PC using the AllShare function. For more information about AllShare, refer to pages 23~24.

Insert a Disc

1. Press the ⏏ button to open the disc tray.

2. Push 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, select the My Contents or My Devices option on the Main screen, and then press the ⏎ button.

Insert a USB Device

You can play multimedia files located on a USB storage device.

1. With the player off, connect the USB storage device to the USB port on the front panel of the player.

2. Turn on the player. When the Main screen appears, select My Devices > USB, and then press the ⏎ button.

My Devices
Disc
USB
AllShare
Disc to Digital Settings My Contents Smart Hub

3. Select Videos, Photos, or Music, and then press the ⏎ button The contents of the USB device is displayed. Depending on how the contents is arranged, you will see either folders, individual files, or both.

4. Using the ▲▼◄► buttons on your remote, select the desired contents. To open a folder, select it, and then press the ⏎ button. To play a file, select it, and then press the ⏎ button.

5. Press the **RETURN** button to exit a folder or to return to the Main screen.

| NOTE |

▶ You must remove the USB storage device safely (by performing the "**Safely Remove USB**" function) in order to prevent possible damage to the USB memory. Press the **HOME** button to move to the Home menu, select the **YELLOW (C)** button, and then press the ⏎ button.

▶ If you insert a disc when playing a USB storage device, the device mode changes to "DVD or CD" automatically.

▶ The screen will only display files of the Content Type you selected. For example, if you select Music, you will only be able to see music files. If you open folders labelled Photos or Videos, no files will be displayed. To view other types of files, select a different Content Type.

My Contents

The My Contents option lists only files of the type you select. For example, if you select Music, the player will list only music files on the screen. Note that the player will display all folders. You must open the folders to display the music files.

My Contents
Videos
Photos
Music
Settings My Devices Smart Hub Disc to Digital

My Devices

The My Devices option lists only those folders and files on the kind of device you select. For example, if you select USB, the player will list only those folders or files on an attached USB device on the screen.

My Devices
Disc
USB
AllShare
Disc to Digital Settings My Contents Smart Hub

Controlling Video Playback

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

Buttons on the Remote Control used for Video Playback
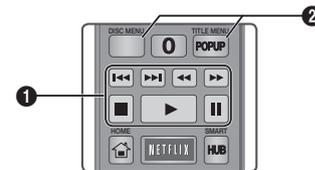
1 Playback related buttons

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

• To return to normal speed playback, press the ▶ button.

▶ **button**	Starts playback.
■ **button**	Stops playback.

❚❚ button	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 ◀◀ or ▶▶ button, the disc moves to the previous or next chapter or file.

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

DISC MENU button	During playback, press this button to start the disc menu function.
TITLE MENU button	During playback, press this button to start the title menu function. • If your disc has a playlist, press the GREEN (B) button to go to the playlist.
POPUP MENU button	During playback, press this button to start the popup menu function.

Using the Tools Menu

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

Title Search	Select to move to a desired scene.
Chapter Search	
Time Search	
Repeat Mode	Select this to repeat the desired scene. - **Off** : Choose this to return to normal playback. - **Title** : Choose this to repeat a selected title. - **Chapter** : Choose this to repeat a selected chapter. - **Repeat A-B** : Choose this to set a repeat point where you want to play. | NOTE | ‣ You must set point (B) at least 5 seconds of playing time after point (A).
Picture Settings	Select this to set the picture settings. - **Dynamic** : Choose this setting to increase sharpness. - **Normal** : Choose this setting for most viewing applications. - **Movie** : This is the best setting for watching movies.

Picture Settings	- **User** : Lets you adjust the sharpness and noise reduction function respectively. | NOTE | ‣ When you use the BD wise function, this menu will not appear.
Audio	Select to set the desired audio language.
Subtitle	Select to set the desired subtitle language. - You can also operate this function by pressing the **SUBTITLE** button on the remote control.
Angle	Select to view a scene from another angle. The Angle option displays the number of angles available to view. When a Blu-ray Disc/DVD contains multiple angles of a particular scene, you can change angle.
BONUSVIEW Video	Select to set the desired bonusview option.
BONUSVIEW Audio	

\| NOTE \|

‣ Depending on the disc or storage device, the Tools menu may differ.

Controlling Music Playback

You can control the playback of music content located on a DVD, USB, mobile device or PC.

Buttons on the Remote Control used for Music Playback
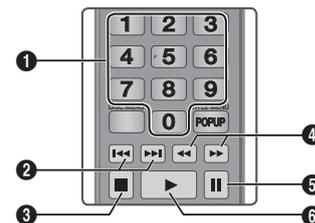
❶	**NUMBER** buttons : During Playlist playback, press the desired track number. The selected track is played.
❷	**Skip** : During playback, press the ◀◀ or ▶▶ button to move to the previous or next page of the playlist.
❸	◼ button : Stops a track.
❹	**Fast Play (Audio CD (CD-DA) only)** During playback, press the ◀◀ or ▶▶ button. Each time you press the ◀◀ or ▶▶ button, the playback speed will change.
❺	**Pause** : Pauses a track.
❻	▶ button : Plays the currently selected track.

Repeat an Audio CD (CD-DA)/MP3

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

2. Press the ▲▼ buttons to select **Repeat Mode**, and then press the ◄► buttons to select the desired repeat mode.

3. Press the 🔁 button.

Off	Songs are played in the order in which they were recorded.
(🔁) One Song	The current song is repeated.
(🔁) All	All songs are repeated.
(🔀) Shuffle Mode	The random option plays songs in random order. To operate this function, please set the shuffle mode to **On**.

Playlist

1. To move to the Music List, press the ▣ or **RETURN** button.
   The Music List screen appears.

2. Press the **YELLOW (C)** button.

3. Press the ▲▼◄► buttons to move to a desired track, and then press the 🔁 button. A check appears on the track. Repeat this procedure to select additional tracks.

4. To remove a track from the list, move to the track, and then press the 🔁 button again.
   The check on the track is cancelled.

5. When done, press the **TOOLS** button.

6. Press the ▲▼ buttons to select Play Selected, and then press the 🔁 button.
   The tracks you selected play automatically.

7. To go to the Music List, press the **RETURN** button.

| NOTE |

▸ You can create a playlist with up to 99 tracks on Audio CDs (CD-DA).

Playing Photo Contents

You can play photo contents located on a DVD, CD, or a USB storage device.

Using the Tools Menu

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

Start Slide Show	Select to start the slide show.
Slide Show Speed	Select to set a slide show's speed.
Background Music	Select to listen to music while viewing a slide show.
Background Music Setting	Select to set the background music setting.
Zoom	Select to enlarge the current picture. (Enlarge up to 4 times)
Rotate	Select to rotate the picture. (This will rotate the picture either clockwise or counter clockwise.)
Information	Shows the picture information.

| NOTE |

▸ Depending on the disc or storage device, the Tools menu may differ.

▸ 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.

▸ You can't enlarge the subtitle and PG graphic in the full screen mode.

Network Services

You can enjoy various network services such as Smart Hub or BD-LIVE by connecting the player to your network.

To use network services, you must first:

1. Connect the player to the network. (See page 12)

2. Configure the network settings. (See pages 17~18)

Using Smart Hub

Using Smart Hub, you can download movies, videos, and music from the Internet, and access various for pay or free-of-charge applications and view them on your TV. Application content includes news, sports, weather forecasts, stock market quotes, maps, photos, and games.

For instructions that explain how to use Smart Hub, follow these steps:

1. Go to www.samsung.com.

2. Click Support at the top of the page.

3. On the Support page, enter the model number of your player into the Model Number field, and then press the **Enter** button.

4. On the page that appears, click Get downloads on the left side under Downloads. The Download Center appears.

5. On the Download Center page, click the Manuals tab.

6. On the Manuals tab, click the file icon to the right of Smart Hub Users Manual. The manual downloads.

| NOTE |

‣ The web location of the Smart Hub manual is subject to change without notice.

‣ If the home page is updated or revised, the content mentioned in the user manual may differ from the actual menus.

Smart Hub at a Glance
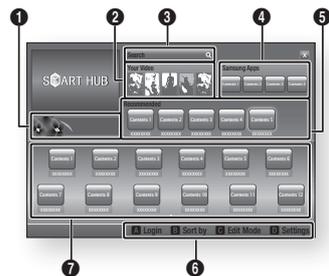
❶	**Commercial** : Displays the Smart Hub Guide, an introduction to the player, and new application introductions.
❷	**Your Video** : Provides recommendations for videos based on your tastes. | NOTE | ‣ This menu may not be supported depending on the region.
❸	**Search** : Provides an integrated search of your video providers and connected AllShare devices.
❹	**Samsung Apps** : Open Samsung Apps to download various for pay or free-of-charge application services.
❺	**Recommended** : Displays recommended contents managed by Samsung.
❻	**Navigation Help** : Displays the remote control buttons you can use to navigate in Smart Hub. • **RED (A)** : To log in to Smart Hub. • **GREEN (B)** : To sort the applications. • **YELLOW (C)** : To edit the applications. • **BLUE (D)** : To change the settings of Smart Hub.
❼	**My Applications** : Displays your personal gallery of applications which you can add to, modify, and delete.

BD-LIVE™

Once the player is connected to your network, you can enjoy various movie-related service contents available on BD-LIVE compliant discs.

1. Attach a USB memory stick to the USB jack on the front of the player, and then check its remaining memory. The memory device must have at least 1GB of free space to accommodate the BD-LIVE services.

2. Select **Settings** on the Home screen, and then press the ⏎ button.

3. Select **System**, and then press the ⏎ button.

4. Select **BD Data Management**, and then press the ⏎ button.

5. Select **Select Device**, and then press the ⏎ button.

6. Select **USB**, and then press the ⏎ button.

7. Insert a Blu-ray Disc that supports BD-LIVE.

8. Select an item from various BD-LIVE service contents provided by the disc manufacturer.

| NOTE |

‣ The way you use BD-LIVE and the provided contents may differ, depending on the disc manufacturer.

Using the AllShare Network Function

AllShare lets you play Videos, Photos, or Music located on your PC or your DLNA compatible device through the player using a wireless network connection.

To Download the AllShare Software

To use AllShare with your PC or DLNA device, you must install AllShare software on your PC.

You can download the PC software and get detailed instructions for using AllShare from the Samsung.com website.

1. Go to www.samsung.com.

2. Click Support at the top of the page.

3. On the Support page, enter the model number of your player into the Model Number field, and then press the ⏎ button.

Network Services

4. On the page that appears, click Get downloads on the left side under Downloads. The Download Center appears.

5. On the Download Center page, click the Software tab.

6. On the software tab, click the File icon on the right side of the AllShare line.

7. In the pop-up that appears, click Save File.

8. Find the AllShare install file on your disk, and then double click the file.

9. In the pop-up that appears, click Run, and then follow the directions that appear on your screen.

Download the AllShare Installation/Instruction manual from the same Software Tab by clicking the corresponding PDF file symbol in the File column on the right. The file, in PDF format, will download and open. You can view and/or save the file.

Playing Content Located on Your PC or DLNA Device through the Blu-ray Disc Player

PC   Blu-ray Disc Player

AllShare Connection   Play back PC's files
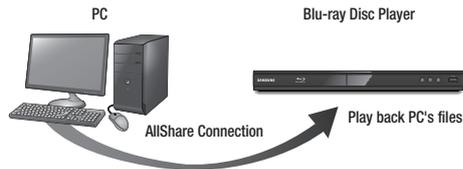
1. Connect the Blu-ray Disc Player, your PC, and/or your DLNA compatible device to the same wireless network.

2. Follow the directions in the AllShare software Installation/Instruction manual to set up devices and files for playing or viewing.

3. Select **My Devices** in the player's Home screen, and then press the 🔁 button. The AllShare screen appears.

4. Select the connected DLNA compatible device or your PC, and then press the 🔁 button. A screen listing the available files appears.

5. Select the file you want to play or view, and then press the 🔁 button.

Using Disc to Digital

Access your movie collection via cloud storage anytime, any place without your DVD disc.

Go to www.samsungsupport.com for more detailed information.

| NOTE |

‣ You can access the Disc to Digital function by pressing the **Disc2Digital** button on your remote control.

‣ Samsung may add additional applications for this feature in the future.

Appendix

Compliance and Compatibility Notice

NOT ALL discs are compatible
- Subject to the restrictions described below and those noted throughout this Manual, including the Disc Type and Characteristics section of this user manual, disc types that can be played are: pre-recorded commercial BD-ROM, DVD-VIDEO, and Audio CD (CD-DA); BD-RE/-R, DVD-RW/-R; and CD-RW/-R.
- Discs other than the above cannot and/or is not intended to be played by this player. And some of the above discs may not play due to one or more reasons provided below.
- Samsung cannot assure that this player will play every disc bearing the BD-ROM, BD-RE/-R, DVD-VIDEO, DVD-RW/-R, DVD+RW/+R and CD-RW/-R logos, and this player may not respond to all operating commands or operate all features of every disc. These and other disc compatibility and player operation issues with new and existing format discs are possible because:
  - Blu-ray is a new and evolving format and this player may not operate all features of Blu-ray Discs because some features may be optional, additional features may have been added to the Blu-ray Disc format after the production of this player, and certain available features may be subject to delayed availability;
  - not all new and existing disc format versions are supported by this player;
  - new and existing disc formats may be revised, changed, updated, improved and/or supplemented;
  - some discs are produced in a manner that allows specific or limited operation and feature during playback;
  - some features may be optional, additional features may have been added after the production of this player or certain available features may be subject to delayed availability;
  - some discs bearing the BD-ROM, BD-RE/-R, DVD-VIDEO, DVD-RW/-R, DVD+RW/+R and CD-RW/-R logos may still be non-standardized discs;
  - some discs may not be played depending on their physical state or recording conditions;
  - problems and errors can occur during the creation of Blu-ray Disc, DVD software and/or the manufacture of discs;
  - this player operates differently than a standard DVD player or other AV equipment; and/or

  - for reasons noted throughout this user manual and for other reason(s) discovered and posted by SAMSUNG customer care center.
- If you encounter disc compatibility or player operation problems, please contact SAMSUNG customer care center.
  You may also contact SAMSUNG customer care center for possible updates on this player.
- For additional information on playback restrictions and disc compatibility, refer to the Precautions, Before Reading the user manual, Disc Types and Characteristics, and Before Playing sections of this user manual.
- **For Blu-ray Disc Player progressive scan output** : CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS PRODUCT, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.

Copy Protection

- Because AACS (Advanced Access Content System) is approved as content protection system for Blu-ray Disc format, similar to use of CSS (Content Scramble System) for DVD format, certain restrictions are imposed on playback, analog signal output, etc., of AACS protected contents.
  The operation of this product and restrictions on this product may vary depending on your time of purchase as those restrictions may be adopted and/or changed by AACS after the production of this product. Furthermore, BD-ROM Mark and BD+ are additionally used as content protection system for Blu-ray Disc format, which imposes certain restrictions including playback restrictions for BD-ROM Mark and/or BD+ protected contents. To obtain additional information on AACS, BD-ROM Mark, BD+, or this product, please contact SAMSUNG customer care center.
- Many Blu-ray Disc/DVDs are encoded with copy protection. Because of this, you should only connect your Player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected Blu-ray Disc/DVDs.

Appendix

- Under the U.S. Copyright laws and Copyright laws of other countries, unauthorized recording, use, display, distribution, or revision of television programs, videotapes, Blu-ray Discs, DVDs, and other materials may subject you to civil and/or criminal liability.
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  More information about Cinavia technology is provided at the Cinavia Online Consumer Information Center at http://www.cinavia.com. To request additional information about Cinavia by mail, send a postcard with your mailing address to: Cinavia Consumer Information Center, P.O. Box 86851, San Diego, CA, 92138, USA.
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  - In the case of using open source software, Open Source Licenses are available on the product menu.

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Additional Information

Note

Settings	TV Aspect
	• Depending on the disc type, some aspect ratios may not be available. • If you select an aspect ratio and option that is different than the aspect ratio of your TV screen, the picture might appear to be distorted. • If you select the 16:9 Original, your TV may display 4:3 Pillarbox (black bars on sides of picture).
	BD Wise (Samsung Players only)
	• When BD Wise is on, the Resolution setting automatically defaults to BD Wise and BD Wise appears in the Resolution menu. • If the player is connected to a device that does not support BD Wise, you can not use the BD Wise function. • For proper operation of BD Wise, set the BD Wise option of both the player 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 HDMI audio output to your TV. It affects the coaxial and HDMI audio output when your player 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).

Settings	**PCM Downsampling**	
	• Even when PCM Downsampling is set to **Off**, some discs will only output downsampled audio through the coaxial digital outputs.	
	• HDMI	
	- If your TV is not compatible with compressed multi-channel formats (Dolby Digital, DTS), the player may output PCM 2ch downmixed audio even though you selected Bitstream (either Reencoded or Unprocessed) in the setup menu.	
	- If your TV is not compatible with PCM sampling rates over 48kHz, the player may output 48kHz.	
	BD-LIVE Internet Connection	
	• What is a valid certificate? When the player uses BD-LIVE to send the disc data and a request to the server to certify the disc, the server uses the transmitted data to check if the disc is valid and sends the certificate back to the player.	
	• The Internet connection may be restricted while you are using BD-LIVE contents.	
	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 USB 2.0 protocol with 4 MB/sec or faster read/write speed.	
	• 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.	

Media Play	**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 soundtrack in English.	
	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 are displayed respectively.	
	• If you press the **SUBTITLE** button on the remote control, the subtitle bar appears. Press the **RETURN** button to remove the subtitle bar.	

Resolution according to the contents type

Setup \ Contents Type	Blu-ray Disc	E-contents/ Digital contents	DVD
BD Wise	Resolution of Blu-ray Disc	1080@60F	480i
Auto	Max. Resolution of TV input	Max. Resolution of TV input	Max. Resolution of TV input
1080p@60F (Movie Frame : Off)	1080@60F	1080@60F	1080@60F
Movie Frame : Auto (24Fs)	1080@24F	1080@24F	-
1080i	1080i	1080i	1080i
720p	720p	720p	720p
480p	480p	480p	480p

| NOTE |

▸ If the TV you connected to the player does not support Movie Frame or the resolution you selected, the message "*If no pictures are shown after selecting 'Yes', please wait for 15 seconds to return to the previous resolution. Do you want to change the resolution?*" appears. If you select **Yes**, the TV's screen will go blank for 15 seconds, and then the resolution will revert to the previous resolution automatically.

▸ If the screen stays blank after you have changed the resolution, remove all discs, and then press and hold the ▶❚❚ button on the front of the player for more than 5 seconds. All settings are restored to the factory default. Run the Initial Settings procedure again. Then, go to Settings > Display > Resolution in the Menu, and select the correct resolution for your TV.

▸ When you run the Initial Settings procedure, re-select the language and aspect ratio (screen size and format) only. Resetting does not affect your network settings, so you should be able to skip Network Setup and Software Upgrade.

▸ When the factory default settings are restored, all stored user BD data will be deleted.

▸ The Blu-ray Disc must have the 24 frame feature for the player to use the Movie Frame (24Fs) mode.

Digital Output Selection

Setup		PCM		Bitstream (Unprocessed)		Bitstream (Re-encoded DTS)	Bitstream (Re-encoded Dolby D)
Connection		HDMI Receiver	Coaxial	HDMI Receiver	Coaxial	HDMI Receiver or Coaxial	HDMI supported AV receiver or Coaxial
Audio Stream on Blu-ray Disc	PCM	Up to 7.1ch	PCM 2ch	PCM	PCM 2ch	Re-encoded DTS	Re-encoded Dolby Digital *
	Dolby Digital	PCM 2ch	PCM 2ch	Dolby Digital	Dolby Digital	Re-encoded DTS	Re-encoded Dolby Digital *
	Dolby Digital Plus	PCM 2ch	PCM 2ch	Dolby Digital Plus	Dolby Digital	Re-encoded DTS	Re-encoded Dolby Digital *
	Dolby TrueHD	PCM 2ch	PCM 2ch	Dolby TrueHD	Dolby Digital	Re-encoded DTS	Re-encoded Dolby Digital *
	DTS	PCM 2ch	PCM 2ch	DTS	DTS	Re-encoded DTS	Re-encoded Dolby Digital *
	DTS-HD High Resolution Audio	PCM 2ch	PCM 2ch	DTS-HD High Resolution Audio	DTS	Re-encoded DTS	Re-encoded Dolby Digital *
	DTS-HD Master Audio	PCM 2ch	PCM 2ch	DTS-HD Master Audio	DTS	Re-encoded DTS	Re-encoded Dolby Digital *

Audio Stream on DVD	PCM	PCM 2ch	PCM 2ch	PCM 2ch	PCM 2ch	PCM 2ch	PCM 2ch
	Dolby Digital	PCM 2ch	PCM 2ch	Dolby Digital	Dolby Digital	Dolby Digital	Dolby Digital
	DTS	PCM 2ch	PCM 2ch	DTS	DTS	DTS	DTS
Definition for Blu-ray Disc	Any	Decodes main feature audio and BONUSVIEW audio stream together into PCM audio and add Navigation Sound Effects.		Outputs only main feature audio stream so that your AV receiver can decode the audio bitstream. You will not hear BONUSVIEW audio and Navigation Sound Effects.		Decodes main feature audio and BONUSVIEW audio stream together into PCM audio and add Navigation Sound Effects, then re-encodes the PCM audio into DTS bitstream	Decodes main feature audio and BONUSVIEW audio stream together into PCM audio and add Navigation Sound Effects, then re-encodes the PCM audio into Dolby Digital bitstream

* If Source Stream is 2ch, "Re-encoded Dolby D" Settings are not applied.

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, Navigation Sound Effects may sound. Navigation Sound Effects are different on each Blu-ray Disc.

Troubleshooting

Before requesting service, please try the following solutions.

PROBLEM	SOLUTION
No operation can be performed with the remote control.	• Check the batteries in the remote control. They may need replacing. • Operate the remote control at a distance of no more than 20 feet from the player. • Remove the batteries and hold down one or more buttons for several minutes to drain the microprocessor inside the remote control to reset it. Reinstall the batteries and try to operate the remote control again.
The disc does not play.	• Ensure that the disc is installed with the label side facing up. • Check the region number of the Blu-ray Disc/DVD.
The disc Menu does not appear.	• Ensure that the disc has disc menus.
The prohibition message appears on the screen.	• This message appears when an invalid button is pressed. • The Blu-ray Disc/DVD's software doesn't support the feature (e.g., angles). • You've requested a title or chapter number or search time that is out of range.
Play mode differs from the Setup Menu selection.	• Some of the functions selected in the Setup Menu may not work properly if the disc is not encoded with the corresponding function.
The screen ratio cannot be changed.	• The Screen Ratio is fixed on your Blu-ray Disc/DVD. • This is not a problem with the player.
No audio.	• Make sure you have selected the correct Digital Output in the Audio Options Menu.

PROBLEM	SOLUTION
The screen is blank.	• 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 the ►II button (on front panel) for more than 5 seconds with no disc inside. All settings will revert to the factory settings. • When the factory default settings are restored, all stored user BD data will be deleted.
Forgot PIN	• Press the ►II button (on front panel) for more than 5 seconds with no disc inside. All settings including the password will revert to the factory settings. Don't use this unless absolutely necessary. • When the factory default settings are restored, all stored user BD data will be deleted.
If you experience other problems.	• Go to the contents and find the section of the user manual that contains the explanations regarding the current problem, and follow the procedure once again. • If the problem still cannot be solved, please contact your nearest Samsung authorized service center.
The picture is noisy or distorted	• Make sure that the disc is not dirty or scratched. • Clean the disc.
No HDMI output.	• Check the connection between the TV and the HDMI jack of the player. • Check if your TV supports 480p, 720p, 1080i or 1080p HDMI input resolution.
Abnormal HDMI output screen.	• If random noise appears on the screen, it means that TV does not support HDCP (High-bandwidth Digital Content Protection).

PROBLEM	SOLUTION
AllShare function	
I can see folders shared through AllShare, but I cannot see the files.	• AllShare only shows Video, Photo, and Music files. Other types of files are not displayed.
The video plays intermittently.	• Check if the network is stable. • Check if the network cable is properly connected and if the network is not overloaded. • The wireless connection between the DLNA compatible device and the player is unstable. Check the connection.
The AllShare connection between the player and the PC is unstable.	• IP addresses within the same subnetwork should be unique. If they are not, IP interference can cause this phenomenon. • Check if you have a firewall enabled. If so, disable the firewall function.
BD-LIVE	
I cannot connect to the BD-LIVE server.	• Test whether the network connection is successful using the Network Status function. (See page 15) • Check whether a USB memory device is connected to the player. • The memory device must have at least 1GB of free space to accommodate the BD-LIVE service. You can check the available size in BD Data Management. (See page 15) • See if the BD-LIVE Internet Connection option is set to Allow(All). • If all above fails, contact the contents provider or update the player to the latest firmware.

Appendix

PROBLEM	SOLUTION
When using the BD-LIVE service, an error occurs.	• The memory device must have at least 1GB of free space to accommodate the BD-LIVE service. You can check the available size in BD Data Management. (See page 15)

| NOTE |

▸ When the factory default settings are restored, all stored user BD data will be deleted.

Repairs

If you contact us to repair your player, an administration fee may be charged if either:

1. An engineer is called out to your home at your request and there is no defect in the product.

2. You bring the unit to a repair center and there is no defect in the product.

We will provide you with the amount of the administration fee before we make a home visit or begin any work on your player.
We recommend you read this manually thoroughly, search for a solution on line at www.samsung.com, or contact Samsung Customer Care at 1-800-SAMSUNG (726-7864) before seeking to repair your player.

Specifications

General	Power Requirements	AC 120V, 60Hz
	Power Consumption	12.6W
	Weight	2.4 lbs
	Dimensions	14.2 (W) X 7.6 (D) X 1.5 (H) inches
	Operating Temperature Range	+41°F to +95°F
	Operating Humidity Range	10 % to 75 %
USB	Type A	USB 2.0
	DC output	5V 500mA Max.
HDMI	Video	1080p, 1080i, 720p, 480p
	Audio	PCM, Bitstream
Audio Output	Digital Audio Output	Coaxial
Network	Ethernet	100BASE - TX Terminal
	Wireless LAN	Built-in
	Security	WEP (OPEN/SHARED) WPA-PSK (TKIP/AES) WPA2-PSK (TKIP/AES)
	WPS(PBC)	Supported

• Network speeds equal to or below 10Mbps are not supported.
• Design and specifications are subject to change without prior notice.
• Weight and dimensions are approximate.
• Dispose unwanted electronics through an approved recycler.
  To find the nearest recycling location, go to our website: www.samsung.com/recyclingdirect or call, (877) 278 - 0799.

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QUESTIONS OR COMMENTS?

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