imagine the possibilities

Thank you for purchasing this Samsung product.
To receive more complete service, please register your product at
www.samsung.com/register
Blu-ray Disc Features
Blu-ray Discs support the highest quality HD video available in the industry. Large capacity means no compromise on video quality. The following Blu-ray Disc features are disc dependant and will vary. Appearance and navigation of features will also vary from disc to disc. Not all discs will have the features described below.

Video highlights
The BD-ROM format supports three highly advanced video codecs, including AVC, VC-1 and MPEG-2.
HD video resolutions are also supported:
- 1920 x 1080 High Definition
- 1280 x 720 High Definition

For High-Definition Playback
To view high-definition contents on a Blu-ray Disc, you need an HDTV (High Definition Television). Some Blu-ray Discs may require you to use the player’s HDMI OUT to view high-definition content. The ability to view high-definition content on Blu-ray Discs may be limited depending on the resolution of your TV.

BD-LIVE
You can use a Blu-ray Disc that supports BD-LIVE to download content provided by the disc manufacturer through a network connection.

Blu-ray Disc Player Features
Playing multimedia files
You can use the USB connection to play various kinds of multimedia files (MP3, JPEG, DivX, etc.) located on a USB storage device.

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.

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 THE 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.

NOTE
- If the Region number of a Blu-ray Disc/DVDs disc 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.
8. Install in accordance with the manufacturer's instructions.
9. Do not defeat the safety purpose of the polarized or grounding-type plug.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from 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 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

Disc Handling

Disc Shape
- Use discs with regular shapes. If you use an irregular disc (a disc with a special shape), you can damage the player.

Holding discs
- Avoid touching the surface of a disc where data has been recorded.

Blu-ray Discs
- Do not leave a Blu-ray Disc in the player for long periods of time. Remove the Blu-ray Disc from the player and store it in its case.
- Be careful not to scratch or leave fingerprints on the surface of the Blu-ray Disc.

DVD-VIDEO, Audio CD (CD-DA)
- Wipe off dirt or contamination on the disc with a soft cloth.

Disc Storage
Be careful not to damage the disc because the data on these discs is highly vulnerable to the environment.
- Do not keep under direct sunlight.
- Keep in a cool ventilated area.
- Store vertically.
- Keep in a clean, protective jacket.
- 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.

Handling Cautions
- Do not write on the printed side with a ball-point pen or pencil.
- Do not use record cleaning sprays or antistatic sprays to clean discs. Also, do not use volatile chemicals, such as benzene or thinner.
- Do not apply labels or stickers to discs. (Do not use discs fixed with exposed tape adhesive or leftover peeled-off stickers.)
- Do not use scratch-proof protectors or covers.
Do not use discs printed with label printers available on the market.
Do not load warped or cracked discs.
Before connecting other components to this player, be sure to turn them off.
Do not move the player while it is playing a disc. The disc can be scratched or damaged and the player’s internal parts can be damaged.
Do not put a flower vase filled with water or any small metal objects on the player.
Be careful not to put your hand into the disc tray.
Do not place anything other than the disc in the disc tray.
Interference from exterior sources such as lightning and static electricity can affect the normal operation of this player. If this occurs, turn the player off and on again with the POWER button, or disconnect and then reconnect the AC power cord to the AC outlet. The player will operate normally.
Be sure to remove the disc and turn off the player after use.
Disconnect the AC power cord from the AC outlet when you don’t intend to use the player for long periods of time.
To clean a disc, wipe it in a straight line from the inside to the outside of the disc.
Do not expose the player to any liquid.
When the AC plug is connected to a wall outlet, the player will still draw power even when it is turned off. It is in standby mode.
Do not expose the player to dripping or splashing. Do not put objects filled with liquids, such as vases, on the player.
To turn off the player completely so that it draws no power, you must remove its power plug from the wall socket. Consequently, you should keep the player’s power plug easily accessible at all times.

Do not touch the power plug with a wet hand. It can cause an electric shock.
Do not plug multiple electric devices into one socket. It can cause the socket to overheat, resulting in a fire.
If the player produces an abnormal noise, 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 center for technical assistance. If you continue to use the product, it may cause an electric shock or fire.

Maintenance of Cabinet
Before you clean the Blu-ray Disc’s cabinet, be sure to disconnect the AC power cord from the AC outlet.
Do not use benzene, thinner, or other solvents for cleaning.
Wipe the cabinet with a soft cloth.

Restrictions on Playback
This player may not respond to all operating commands because some Blu-ray Disc, DVD, and CD discs allow specific or limited operation and provide only certain features during playback. Please note that this is not a defect in the 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 if you have questions or encounter difficulty in playing Blu-ray Disc, DVD, or CD discs in this player. Also, refer to rest of this user manual for additional information on playback restrictions.

Warning
Precautions
Disc Storage & Management

GETTING STARTED
Before using the User Manual
Accessories
Front Panel
Rear Panel
Remote Control

CONNECTIONS
A. Connecting to a TV
B. Connecting to an Audio System
C. Connecting to the Network

SETUP
Initial Settings
Accessing the Settings Menu
Display
Audio

Appendix
Troubleshooting
Specifications
Before using the User Manual

Disc Types and Contents your player can play

<table>
<thead>
<tr>
<th>Content</th>
<th>Logo</th>
<th>Icon</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>VIDEO</td>
<td><img src="image1" alt="Logo" /></td>
<td><img src="image2" alt="Icon" /></td>
<td>Indicates a function available on a BD-ROM or BD-RE/-R disc recorded in the BD-RE format.</td>
</tr>
<tr>
<td></td>
<td><img src="image3" alt="Logo" /></td>
<td><img src="image4" alt="Icon" /></td>
<td>Indicates a function available on a DVD-VIDEO or recorded DVD+RW/DVD-RW/R/R+R discs that have been recorded and finalized.</td>
</tr>
<tr>
<td>MUSIC</td>
<td><img src="image5" alt="Logo" /></td>
<td><img src="image6" alt="Icon" /></td>
<td>Indicates a function available on an audio CD-RW/-R (CD-DA format).</td>
</tr>
<tr>
<td>PHOTO</td>
<td><img src="image7" alt="Logo" /></td>
<td><img src="image8" alt="Icon" /></td>
<td>Indicates a function available on a CD-RW/-R, DVD-RW/-R, BD-RE/-R disc or in a USB storage media containing JPEG contents.</td>
</tr>
</tbody>
</table>

**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 disc 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 bit rate that exceeds 30 Mbps.

**NOTE**
- Some commercial discs and DVDs discs purchased outside your region may not play on this player.
- Playback may not work for some types of discs, or when you use specific operations, such as angle change and aspect ratio adjustment. Information about the discs is written in detail on the disc box. Please refer to this if necessary.
- Do not allow the disc to become dirty or scratched. Fingerprints, dirt, scratches or deposits of cigarette smoke on the recording surface may make it impossible to use the disc for playback.
- Discs with PAL programs recorded on them cannot be played using this player.
- This player is compatible with the NTSC color system only.
- When you play a BD-J title, loading may take longer than a normal title or some functions may perform slowly.
- This player may not respond to all operating commands because some Blu-ray Disc, DVD, and CD discs allow specific or limited operation and provide only certain features during playback. Please note that this is not a defect in the 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 if you have questions or encounter difficulty when playing Blu-ray Disc, DVD, or CD discs in this player. Also, refer to rest of this user manual for additional information on playback restrictions.

Blu-ray Disc Compatibility

Blu-ray Disc is a new and evolving format. Accordingly, disc compatibility issues are possible. Not all discs are compatible and not every disc will play back. For additional information, refer to the Compliance and Compatibility Notice section of this user manual.

Disc Types

**BD-ROM**

Blu-ray ROM discs can only be played back. This player can play back pre-recorded commercial BD-ROM discs.

**BD-RE/-R**

Blu-ray RE/-R discs can be recorded on and played back. This player can play back a BD-RE/-R disc recorded by other compatible Blu-ray Disc recorders.

**DVD-VIDEO**

- This player can play back pre-recorded commercial DVDs (DVD-VIDEO discs) with movies.
- When switching from the first layer to the second layer of a dual-layered DVD-VIDEO disc, there may be momentary distortion in the image and sound. This is not a malfunction of the player.
### 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 Code for this player is displayed on the rear panel of the player.

<table>
<thead>
<tr>
<th>Disc Type</th>
<th>Region Code</th>
<th>Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blu-ray Disc</td>
<td>North America, Central America, South America, Korea, Japan, Taiwan, Hong Kong and South East Asia.</td>
<td></td>
</tr>
<tr>
<td>Blu-ray Disc</td>
<td>Europe, Greenland, French territories, Middle East, Africa, Australia and New Zealand.</td>
<td></td>
</tr>
<tr>
<td>Blu-ray Disc</td>
<td>India, China, Russia, Central and South Asia.</td>
<td></td>
</tr>
<tr>
<td>DVD-VIDEO</td>
<td>The U.S., U.S. territories and Canada</td>
<td></td>
</tr>
<tr>
<td>DVD-VIDEO</td>
<td>Europe, Japan, the Middle East, Egypt, South Africa, Greenland</td>
<td></td>
</tr>
<tr>
<td>DVD-VIDEO</td>
<td>Taiwan, Korea, the Philippines, Indonesia, Hong Kong</td>
<td></td>
</tr>
<tr>
<td>DVD-VIDEO</td>
<td>Mexico, South America, Central America, Australia, New Zealand, Pacific Islands, Caribbean</td>
<td></td>
</tr>
<tr>
<td>DVD-VIDEO</td>
<td>Russia, Eastern Europe, India, most of Africa, North Korea, Mongolia</td>
<td></td>
</tr>
<tr>
<td>DVD-VIDEO</td>
<td>China</td>
<td></td>
</tr>
</tbody>
</table>

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### Supported File Formats

#### Notes on the USB connection

- Your player supports USB storage media, MP3 players, digital cameras, and USB card readers.
- The player does not support folder or file names longer than 128 characters.
- Some USB/External HDD/digital camera devices may not be compatible with the player.

### Video File Support

<table>
<thead>
<tr>
<th>File Extension</th>
<th>Container</th>
<th>Video Codec</th>
<th>Audio Codec</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>*.avi</td>
<td>AVI</td>
<td>DivX 3.11/4.x/5.1/6.0</td>
<td>MP3</td>
<td>1920x1080</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>AC3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>DTS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>H.264 BP/MP/HP</td>
<td></td>
</tr>
<tr>
<td>*.mkv</td>
<td>MKV</td>
<td>VC-1 AP</td>
<td>MP3</td>
<td>1920x1080</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>AC3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>DTS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>H.264 BP/MP/HP</td>
<td></td>
</tr>
<tr>
<td>*.wmv</td>
<td>WMV (wmv9)</td>
<td>VC-1 AP</td>
<td>WMA</td>
<td>1920x1080</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>VC-1 SM</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE**

- Some DivX, MKV and MP4 format discs may not play, depending on the video resolution and frame rate condition.
- Your player supports the FAT16, FAT32, and NTFS file 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 the video that is under 30fps (frame rate).
## Limitations
- Even when the file is encoded by a supported codec mentioned above, a file might not be played if its content has a problem.
- Normal playback is not guaranteed if the file's container information is wrong or the file itself is corrupted.
- Files having higher Bit rate/frame rate than standard may stutter during sound/video playback.
- Seek (skip) function is not available if the file's index table is damaged.

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

### Audio decoder
- Supports WMA 7, 8, 9 and STD
- Does not support WMA 9 PRO multi-channel if number of channels is more than 2 or lossless audio decoding.
- Does not support WMA sampling rate of 220/50Hz mono.

## Music File Support

<table>
<thead>
<tr>
<th>File Extension</th>
<th>Container</th>
<th>Audio Codec</th>
<th>Support Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>*.mp3</td>
<td>MP3</td>
<td>MP3</td>
<td>-</td>
</tr>
<tr>
<td>*.wma</td>
<td>WMA</td>
<td>WMA</td>
<td>Compliant with WMA version 10</td>
</tr>
</tbody>
</table>
  * Sampling rates (in kHz) - 8, 11, 16, 22, 32, 44.1, 48
  * Bit rates - All bit-rates in the range 5kbps to 384kbps

## Logos of Discs the player can play

<table>
<thead>
<tr>
<th>Blu-ray Disc</th>
<th>DTS-HD Master Audio</th>
<th>DivX</th>
<th>BD-LIVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dolby TrueHD</td>
<td>NTSC broadcast system in U.S.A, Canada, Korea, Japan</td>
<td>Java</td>
<td></td>
</tr>
</tbody>
</table>

## Accessories

- Audio/Video cable
  (AC39-00073A)
- Batteries for Remote Control
  (AAA Size) (AC43-12002H)
- User Manual
  (AK68-02111A)
- Remote Control
  (AK59-00132A)
### Front Panel

| 1  | DISC TRAY                  | Opens to accept a disc. |
| 2  | REMOTE CONTROL SENSOR      | Detects signals from the remote control. |
| 3  | DISPLAY                    | Displays the playing status, time, etc. |
| 4  | OPEN/CLOSE BUTTON          | Opens and closes the disc tray. |
| 5  | PLAY/PAUSE BUTTON          | Plays a disc or pauses playback. |
| 6  | USB HOST                   | You can connect a USB memory flash stick here and use it as storage when the player is connected to BD-LIVE. You can also use the USB Host for software upgrades and MP3/JPEG/DivX/MKV/MP4 playback. |
| 7  | POWER BUTTON               | Turns the player on and off. |
| 8  | STOP BUTTON                | Stops disc playback. |

#### NOTE
- You can perform software upgrades using the USB Host jack with a USB memory flash stick only.
- 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 ENTER button.

### Rear Panel

| 1  | LAN                        | Use for network based services, BD-LIVE, and software upgrades using a network connection. |
| 2  | HDMI OUT                   | Using an HDMI cable, connect this HDMI output terminal to the HDMI input terminal on your TV for the best quality picture or to your AV receiver for the best quality sound. |
| 3  | DIGITAL AUDIO OUT          | Connects to an AV receiver. |
| 4  | VIDEO OUT                  | Connects to the video input of external devices using a video cable. |
| 5  | AUDIO OUT                  | Connects to the audio input of external devices using audio cables. |
Remote Control

Tour of the Remote Control

1. Use to enter the disc menu.
2. Use to enter the popup menu/title menu.
3. These buttons are used both for menus on the player and also several Blu-ray Disc functions.
4. Press to search a disc backwards or forwards.
5. Press to play a disc.
6. Press to use the Tools menu.
7. Press to exit the menu.
8. Press to see the full screen on a TV.
9. Use to display the playback information when playing a Blu-ray Disc/DVD.
10. Use to enter the disc menu.
11. Use to access various audio functions on a disc (Blu-ray Disc/DVD).
12. Press to search a disc backwards or forwards.
13. Press to play a disc.
14. Press to move to the home menu.
15. Press to stop a disc.
16. Press to change menu values.
17. Press to exit the menu.
18. Press to use Netflix.
19. Press to use the Tools menu.
20. Press to move to the home menu.
21. Press to skip backwards or forwards.
22. Press to access various audio functions on a disc (Blu-ray Disc/DVD).
23. Press to switch the Blu-ray Disc/DVD's subtitle language.
24. Press to switch the Blu-ray Disc/DVD's subtitle language.
25. Turn the player on and off.
26. Turn the player on and off.
27. Turn the player on and off.

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

A. Connecting to a TV

Case 1: Connecting to a TV with an HDMI Cable - Best Quality (Recommended)

1. Using an HDMI cable, connect the HDMI OUT terminal on the rear of the player to the HDMI IN terminal of your TV. See page 11.
2. Turn on the player and TV.
3. Press the input selector on your TV remote control until the HDMI signal from the player appears on your TV screen.

NOTE
● An HDMI cable outputs digital video/audio, so you don’t need to connect an audio cable.
  • If the player is connected to your TV 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.
  • 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 the TV using the HDMI cable for the first time or to a new TV, the HDMI output resolution will be automatically set to the highest supported by the TV.
  • A long HDMI cable may cause screen noise. If this occurs, set Deep Color to Off in the menu.
  • If you use an HDMI-to-DVI cable to connect to your display device, you must also connect the AV Out or Digital Audio Out to your display device or to an audio system to hear audio.
  • If both HDMI and Video out are connected at the same time, only the HDMI signal is outputed.

Case 2: Connecting to a TV with an Audio/Video cable - Good Quality

1. Using an Audio/Video cable, connect the VIDEO OUT (yellow) / AUDIO OUT (red and white) terminals on the rear of the player to the VIDEO IN (yellow) / AUDIO IN (red and white) terminals of your TV. See page 11.
2. Turn on the player and TV.
3. Press the input selector on your TV remote control until the “VIDEO” signal from the player appears on the TV screen.
B. Connecting to an Audio System

• Please turn the volume down when you turn on the AV receiver. A sudden loud sound may cause damage to the speakers and your ears.
• Please set the audio format according to the capabilities of your AV receiver.
• The position of HDMI input terminals may vary depending on your AV receiver. Please refer to the user manual of your AV receiver.

Case 1 : Connecting to an Audio System (HDMI supported AV receiver) - Best Quality (Recommended)

1. Using an HDMI cable, connect the HDMI OUT terminal on the rear of the player to the HDMI IN terminal of your AV receiver. See page 11.
2. Turn on the player, TV, and AV receiver.
3. Press the input select button of the AV receiver to select the external input to hear sound from the player. Refer to your AV receiver’s user manual to set the AV receiver’s audio input.

Case 2 : Connecting to an Audio System (AV receiver with Dolby Digital or DTS decoder) - Better Quality

1. Using a coaxial cable, connect the DIGITAL AUDIO OUT (COAXIAL) terminal on the rear of the player to the DIGITAL AUDIO IN (COAXIAL) terminal of your AV receiver. See page 11.
2. Using the video signal cable(s), connect the HDMI or VIDEO OUT terminals on the rear of the player to the HDMI or VIDEO IN terminal of your TV.
3. Turn on the player, TV and Stereo Amplifier.
4. Press the input select button of the Stereo Amplifier to select the external input in order to hear sound from the player. Refer to your Stereo Amplifiers user manual to set the Stereo Amplifier’s audio input.

Case 3 : Connecting to an Audio System (Stereo Amplifier) - Good Quality

1. Using the audio cables, connect the AUDIO OUT (red and white) terminals on the rear of the player to the AUDIO IN (red and white) terminals of your Stereo Amplifier. See page 11.
2. Using the video signal cable(s), connect the HDMI or VIDEO OUT terminals on the rear of the player to the HDMI or VIDEO IN terminal of your TV.
3. Turn on the player, TV and Stereo Amplifier.
4. Press the input select button of the Stereo Amplifier to select the external input in order to hear sound from the player. Refer to your Stereo Amplifiers user manual to set the Stereo Amplifier’s audio input.
5. Press the input selector on your TV remote control to select the video source (HDMI or Video).

NOTE

If you use the Digital Audio connection described in Case 2, you will hear audio from the front two speakers only with the Digital Output set to PCM.

C. Connecting to the Network

This player lets you use network based services such as BD-LIVE, and download software upgrades when it is connected to a network. We recommend using a Broadband modem (with integrated router) or IP router for the connection. For more information on router connections, refer to the user manual of the router or contact the router manufacturer for technical assistance.

Cable Network

1. Using a Direct LAN (UTP) cable, connect the LAN terminal of the player to the LAN terminal of your modem or router. See page 11
2. Set the network options. See page 16.

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.
A Connecting to a TV

Case 1: HDMI cable (not included)
Case 2: Audio/Video cable

B Connecting to an Audio System

Case 1: HDMI cable (not included)
Case 2: Coaxial cable (not included)
Case 3: Audio cable

C Network

Broadband modem (with integrated router)

NOTE: You can only connect this unit to a network via a wired connection.
Setup

Initial Settings

1. Turn on your TV after connecting the player. When you connect the player to a TV for the first time, the player turns on automatically and the Initial Settings screen appears.

2. Press the ▲▼ buttons to select the desired language, and then press the ENTER button.

3. Press the ENTER button to select Start.

4. Press the ▲▼ buttons to select the desired TV Aspect Ratio, and then press the ENTER button.

5. Press the ▲▼ button, then select Auto or Manual, and then press the ENTER button. If you do not know the details of your Network Settings, press the BLUE (D) button on your remote instead to skip Network Settings here, finish the Initial Settings, and go to the Home menu. If you selected a Network Setting, go to page 16 for more information about the Network settings. When done, go to Step 6.

6. The Home menu appears.

NOTE
- When the player is connected to the TV for the first time, the player turns on automatically. This is not a malfunction.

Accessing the Settings Menu

1. Select a language for the on-screen displays.

2. The Home menu will not appear if you do not configure the initial settings except as noted below.

3. If you press the BLUE (D) button during the network setup, you can access the Home menu even if the network setup is not completed yet.

4. When you return to home menu, the full screen mode will be cancelled automatically.

5. If you want to display Initial Setting screen again in order to make changes, press the STOP (■) button on the front panel of the player for more than 5 seconds with no disc inserted.

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

7. 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.

Display

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

TV Aspect

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

- Depending on the disc type, some aspect ratios may not be available.
- If you select an aspect ratio and option which is different than the aspect ratio of your TV screen, then the picture might appear to be distorted.
- If you select the 4:3 Pan-Scan or 4:3 Letter Box, pressing the **FULL SCREEN** button on the remote will not bring up a full screen picture.
- If you select the 16:9 Original, your TV may display 4:3 Pillarbox (black bars on sides of picture). If this occurs, pressing the **FULL SCREEN** button on the remote will not bring up a full screen picture.

**BD Wise (Samsung Players only)**

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/DVDs.

- **Off**: The output resolution stays fixed at the resolution you set previously in the Resolution menu, regardless of the resolution of the disc. See Resolution below.
- **On**: The player outputs video at the original resolution and frame rate of the Blu-ray Disc/DVDs.

**NOTE**

- 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 menu of both the player and the TV to **On**.

**Resolution**

Let's you set the output resolution of the HDMI video signal to **Auto**, 1080p, 1080i, 720p, 480p or 480i. The number indicates the number of lines of video per frame. The i and p indicate interlaced and progressive scan, respectively. The more lines, the higher the quality.

- **Auto**: Automatically sets the output resolution to the connected TV’s maximum resolution.
- **BD Wise**: Automatically sets the resolution to the resolution of the Blu-ray Disc/DVDs if you have connected the player via HDMI to a TV with the BD Wise feature. (The BD Wise menu item appears only if BD Wise is set to **On**. See BD Wise above.)
- **1080p**: Outputs 1080 lines of progressive video.
- **1080i**: Outputs 1080 lines of interlaced video.
- **720p**: Outputs 720 lines of progressive video.
- **480p**: Outputs 480 lines of progressive video.
- **480i**: Outputs 480 lines of interlaced video.

### Resolution according to the output mode

**Blu-ray Disc/E-contents/Digital Contents playback**

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<td>480p</td>
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<tr>
<td>480i</td>
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<td>-</td>
<td>480i</td>
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</tbody>
</table>

**DVD playback**

<table>
<thead>
<tr>
<th>Setup</th>
<th>Output</th>
<th>HDMI / connected</th>
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<tr>
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<td>HDMI Mode</td>
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<td>480i</td>
<td>-</td>
<td></td>
<td>480i</td>
</tr>
</tbody>
</table>
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 STOP ( ) button on the front of the player for more than 5 seconds. All settings are restored to the factory default. Follow the steps on the previous page to access each mode and select the Display Setup that your TV will support. When the factory default settings are restored, all stored user BD data is deleted.

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

HDMI Format
You can optimize the color setting from the HDMI output by selecting a connected device type.
- TV : Select if connected to a TV via HDMI.
- Monitor : Select if connected to a Monitor via HDMI

Movie Frame (24Fs)
Setting the Movie Frame (24Fs) feature to On allows you to adjust the player's HDMI output to 24 frames per second for improved picture quality. You can enjoy the Movie Frame (24Fs) feature only on a TV supporting this frame rate. You can select Movie Frame only when the player is in the HDMI 1080i or 1080p output resolution modes.
- Off : Movie Frame (24Fs) functions are off.
- On : Movie Frame (24Fs) functions work.

Progressive Mode
Lets you improve picture quality when viewing DVDs.
- Auto : Select to have the player automatically select the best picture quality for the DVD you’re watching.
- Video : Select for the best picture quality from concert or TV show DVDs.

Still Mode
Lets you set the type of picture the player displays when you pause DVD playback.
- Auto : Automatically shows the best still picture depending on the content.
- Frame : Select when pausing a scene with a little action.
- Field : Select when pausing a scene with a lot of action.

HDMI Deep Color
Lets you output video from the HDMI OUT jack with Deep Color. Deep Color provides more accurate color reproduction with greater color depth.
- Auto : The player outputs video with Deep Color to a connected TV which supports HDMI Deep Color.
- Off : The picture is output without Deep Color.

Digital Output
You set the Digital Output to match the capabilities of the AV receiver you’ve connected to the player:
- PCM
- Bitstream (Re-encode)
- Bitstream (Audiophile)
For more details, please refer to the digital output selection table.

Digital Output Selection

<table>
<thead>
<tr>
<th>Setup</th>
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<td>PCM 2ch</td>
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<tr>
<td>PCM</td>
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<td>DTS re-encoded</td>
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<tr>
<td>Dolby Digital</td>
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<td>PCM 2ch</td>
<td>DTS re-encoded</td>
</tr>
<tr>
<td>Dolby Digital Plus</td>
<td>PCM 2ch</td>
<td>PCM 2ch</td>
<td>DTS re-encoded</td>
</tr>
<tr>
<td>Dolby TrueHD</td>
<td>PCM 2ch</td>
<td>PCM 2ch</td>
<td>DTS re-encoded</td>
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<tr>
<td>DTS</td>
<td>PCM 2ch</td>
<td>PCM 2ch</td>
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<tr>
<td>DTS-HD HRA</td>
<td>PCM 2ch</td>
<td>PCM 2ch</td>
<td>DTS re-encoded</td>
</tr>
<tr>
<td>DTS-HD MA</td>
<td>PCM 2ch</td>
<td>PCM 2ch</td>
<td>DTS re-encoded</td>
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<tr>
<td>DTS</td>
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<td>DTS-HD MA</td>
<td>PCM 2ch</td>
<td>PCM 2ch</td>
<td>DTS re-encoded</td>
</tr>
</tbody>
</table>

Definition for Blu-ray Disc
Any Decodes the main feature audio and BONUSVIEW audio stream together into PCM audio and adds Navigation Sound Effects, then re-encodes the PCM audio into DTS bitstream. Outputs only the main feature audio stream so that your AV receiver can decode the audio bitstream. You will not hear BONUSVIEW audio or Navigation Sound Effects.

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 a menu navigation selection, a Navigation Sound Effects may sound. Navigation Sound Effects are different on each Blu-ray Disc.
NOTE
• 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 analog (L/R) audio or HDMI audio output to your TV. It effects 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).

PCM Downsampling
Lets you set 48kHz and 96kHz PCM downsampling on or off.
• Off : Select when the AV receiver connected to the player is 96kHz compatible.
• On : Select when the AV receiver connected to the player is not 96kHz compatible. 96kHz signals will be down converted to 48kHz.

NOTE
• Even when PCM Downsampling is set to Off, some discs will only output downsamples PCM 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 Re-encoded or Unprocessed) in the setup menu.

• If your TV is not compatible with PCM sampling rates over 48kHz, the player may output 48kHz downsampled PCM audio even though you set PCM Downsampling to Off.

Dynamic Range Control
You can listen at low volumes, but still hear dialog clearly. This is only active if your player detects a Dolby Digital signal.
• Auto : The Dynamic Range Control will be set automatically based on the information provided by the Dolby TrueHD Soundtrack.
• Off : You can enjoy the movie with the standard Dynamic Range.
• On : When Movie soundtracks are played at low volume or through smaller speakers, the system can apply appropriate compression to make low-level content more intelligible and prevent dramatic passages from getting too loud.

Downmixing Mode
Lets you select how the player will downmix multi-channel audio into fewer channels.
• Normal Stereo : Downmixes the multi-channel audio into two channel stereo. Choose when connected to equipment that does not support virtual surround functions such as Dolby Pro Logic.
• Surround Compatible : Downmixes multi-channel audio into surround compatible stereo. Choose when connected to equipment that supports virtual surround functions such as Dolby Pro Logic.

System

Initial Settings
By using the Initial Settings function, you can set the language, Network Settings, etc. For more information about the Initial Settings function, refer to the Initial Settings section of this user manual (page 12).

Anynet+(HDMI-CEC)
Anynet+ is a convenient function that offers linked operations with other Samsung players that have the Anynet+ feature.
To operate this function, connect this player to an Anynet+ Samsung TV with an HDMI cable. With Anynet+ on, you can operate this player using a Samsung TV remote control and start disc playback simply by pressing the PLAY ( ) button on the TV's remote control. For more information, please see the TV user manual.
• Off : Anynet+ functions will work.
• On : Anynet+ functions will not work.

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

BD Data Management
Enables you to manage the downloaded contents you accessed through a Blu-ray disc that supports the BD-LIVE service and stored on a flash drive.
You can check the device's information including the storage size, delete the BD data, or change the Flash memory device.

BD Data Management Screen Information :
• Total Size : Total memory size of the device.
• Available Size : Available memory in the device.

NOTE
• 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 FAT file format (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 the conditions.

Clock
Set time-related functions.
• Clock Mode : You can set it to Auto or Manual. If you select Manual, the Clock Set menu will be activated while DST will be deactivated.
• Clock Set : You can specify the current time and date manually.
**Network Settings**

Please contact your ISP to find out if your IP address is static or dynamic. If it is dynamic, we recommend using the Auto setting. This is the easiest and will work in the majority of cases. If it is static, you must use the manual setup procedure. Directions for wired networks are below.

**NOTE**
- This unit can only be connected to the Network via a wired connection.

**Wired Network**

1. In the Network Settings menu, press the ▲▼ buttons to select Network Setting, and then press the ENTER button. The Internet Protocol Setup screen appears, and then press the ENTER button.
2. Press the ▲▼ button, then select Auto or Manual, and then press the ENTER button.

**Setting Up a Wired Connection - Auto**

1. If you selected Auto, the Network Function acquires and fills in the values for IP Address, Subnet Mask, etc., automatically.

**NOTE**
- This process can take up to five minutes.

2. After the Network Function has acquired the network values, press the RETURN button. Then, run a Network Test to ensure the player has connected to your network.
3. If the Network Function does not acquire the network values or you selected Manual, go to the directions for Manual Setup.

**Setting Up a Wired Connection - Manual**

If the Auto Setting does not work, you’ll need to set the Network Setting values manually. To get the Network setting values through most Windows computers, follow these steps:

1. Right click the Network icon on the bottom right of the screen.
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. To enter the Network settings into your player, follow these steps:

1. On the Internet Protocol Setup screen, press the ENTER button.
2. Press the ▲▼ buttons to select Manual, and then press the ENTER button.
3. Press the ▼ button to go to the first entry field (IP Address).
4. Use the number buttons on your remote to enter numbers.
5. When done with each field, use the ► button to move successively to the next field.
   - You can also use the other arrow buttons to move up, down, and back.
6. Enter the IP Address, Subnet Mask, and Gateway values.
7. Press the ▼ button to go to DNS.
8. Press the ▼ button to go to the first DNS entry field. Enter the numbers as above.
9. Press the RETURN button on your remote.
10. Run a Network Test to ensure the player has connected to your network.

**Network Test**

Use this menu to connect to the wired network or check whether your network connection is working or not.

**Network Status**

Check whether a connection to the network and the Internet have been established.

**BD-LIVE Internet Connection**

Set to allow or prohibit an Internet connection when you use the BD-LIVE service.
- **Allow (All)**: The Internet connection is allowed for all BD-LIVE contents.
- **Allow (Valid Only)**: The Internet connection is allowed only for BD-LIVE contents containing a valid certificate.
- **Prohibit**: No Internet connection is allowed for any BD-LIVE content.

**NOTE**
- **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.
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 disc audio.
• Subtitle: Select the language for disc subtitles.

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

Security
When you access this function for the first time, the password setup screen appears. Enter a desired 4-digit password using the number buttons. (The default password is 0000.)

Parental Rating
This function works in conjunction with Blu-ray Disc/DVDs that have been assigned an age rating or numeric rating that indicates the maturity level of the content. These numbers help you control the types of Blu-ray Disc/DVDs that your family can watch.
Select the rating level you want to set. For example, if you select Level 6, discs rated above 6 - Level 7 and 8 - will not play. A larger number indicates more mature content.

Netfli...
Basic Functions

Playing a Video

Playback

1. Press the OPEN/CLOSE ( ) button to open the disc tray.

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.

4. Press the PLAY ( ) button.

Playback related buttons

PLAY ( ) Starts playback.

STOP ( ) Stops playback.

- If you press the button once: The stop position is memorized.
- If you press the button twice: The stop position is not memorized.

PAUSE ( ) Pauses playback.

NOTE
- For some discs, pressing the STOP ( ) button once may not memorize the stop position.
- Video files with high bit rates of 20Mbps or more strain the player's capabilities and may stop playing during playback.

Disc Structure

The content of discs are usually divided as shown below.

- Blu-ray Disc, DVD-VIDEO
- Audio CD (CD-DA)
- DVD-RW/-R, DVD+RW/+R, DVD-VIDEO

Using the Disc Menu/Title Menu/Popup Menu

Using the Disc Menu

1. During playback, press the DISC MENU button on the remote control.

2. Press the ▲▼ buttons to select an entry you want to play from the Title List, and then press the ENTER button.

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

Using the Title Menu

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.

NOTE
- Depending on the disc, the menu items may differ and this menu may not be available.

Using the Popup Menu

1. During playback, press the POPUP MENU button on the remote control.

2. Press the ▲▼ buttons to select the desired menu.

NOTE
- Depending on the disc, the menu items may differ and this menu may not be available.

Using the Search and Skip Functions

During play, you can search quickly through a chapter or track, and use the skip function to jump to the next selection.

Searching for a Desired Scene

• During playback, press the SEARCH ( $$ $$ ) button.

Each time you press the SEARCH ( $$ $$ ) button, the playback speed will change as follows:

| BD-ROM, BD-RE/-R, BD-RW/-R, DVD+R/-R, DVD+R/-RW, DVD-VIDEO | 1  →  2  →  3  →  4  →  5  →  6  →  7 |
| DivX, MKV, MP4 | 1  →  2  →  3 |

• To return to normal speed playback, press the PLAY ( ) button.

NOTE
- The player does not play sound in search mode.

Skipping Chapters

• During playback, press the SKIP ( $$ $$ ) button.

If you press the SKIP ( $$ $$ ) button, the disc moves to the next chapter.

If you press the SKIP ( $$ $$ ) button, the disc moves to the beginning of the chapter. One more press makes the disc move to the beginning of the previous chapter.
Moving to a Desired Scene Directly

1. During playback, press the TOOLS button.
2. Press the ▲▼ buttons to select Title, Chapter or Playing Time.
3. Press the ► or number button to select the desired Title, Chapter or Playing Time, then press the ENTER button.

Repeating the Title or Chapter

To repeat the disc title or chapter. Depending on the disc, the Repeat function may not be available.

1. During playback, press the TOOLS button.
2. Press the ▲▼ buttons to select Repeat, then press the ENTER button.
3. Press the ▲▼ buttons to select Chapter or Title, then press the ENTER button.
4. To return to normal play, press the TOOLS button again.
5. Press the ▲▼ buttons to select Repeat, then press the ENTER button.
6. Press the ▲▼ buttons to select Off, then press the ENTER button.

NOTE
- If you set point (B) before 5 seconds has elapsed, a prohibition message appears.
- Depending on the disc, the menu items may differ and this menu may not be available.

Selecting the Audio Language

You can also operate this function by pressing the AUDIO button on the remote control.

1. During playback, press the TOOLS button.
2. Press the ▲▼ buttons to select Audio.
3. Press the◄► buttons to select the desired subtitle language.

NOTE
- Depending on the Blu-ray Disc / DVD, you may be able to select the desired subtitle 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.
- A Blu-ray Disc can contain up to 255 subtitle languages and a DVD up to 8.
- 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 numbers of primary and secondary subtitles are displayed respectively.
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• If you press the SUBTITLE button on the remote control, the subtitle bar appears.
  Press the RETURN button to remove the subtitle bar.

Changing the Camera Angle

When a Blu-ray Disc/DVD contains multiple angles of a particular scene, you can use the ANGLE function.
1. During playback, press the TOOLS button.
2. Press the ▲▼ buttons to select Angle.
3. Press the ◄► buttons to select the desired Angle.

Selecting the Picture Settings

This function enables you to adjust video quality when the player is connected to a TV.
1. During playback, press the TOOLS button.
2. Press the ▲▼ buttons to select Picture Setting, and then press the ENTER button.
3. Press the ◄► buttons to select the desired Picture Setting.
  • Dynamic : Choose this setting to increase Sharpness.
  • Normal : Choose this setting for most viewing applications.
  • Movie : This is the best setting for watching movies.
  • User : Lets you adjust the sharpness and noise reduction function respectively.

NOTE
• If you switch from BONUSVIEW Video, BONUSVIEW Audio will change automatically in accordance with BONUSVIEW Video.

Setting BONUSVIEW

The BONUSVIEW feature allows you to view additional content (such as commentaries) in a small screen window while the movie is playing. This function is only available if the disc has the Bonusview feature.
1. During playback, press the TOOLS button.
2. Press the ▲▼ buttons to select BONUSVIEW Video or BONUSVIEW Audio.
3. Press the ◄► buttons to select the desired Bonusview.

NOTE
• When you use BD wise function, this menu will not appear.

Listening to Music

Playing an Audio CD (CD-DA)/MP3
1. Insert an Audio CD (CD-DA) or an MP3 Disc into the disc tray.
   • For an Audio CD (CD-DA), the first track plays automatically.
   • For an MP3 disc, press the ◄► buttons to select Music, then press the ENTER button.

Repeat an Audio CD (CD-DA)/MP3
1. During the Playlist playback, press the TOOLS button.
2. Select Repeat Mode, and then press the ◄► buttons to select the desired repeat mode.

Playlist
1. Insert an Audio CD (CD-DA) or an MP3 Disc into the disc tray.
   • For an Audio CD (CD-DA), the first track plays automatically.
   • For an MP3 disc, press the ◄► buttons to select Music, then press the ENTER button.
2. To move to the Music List, press the STOP ( ⏪) or RETURN button. The Music List screen appears.
3. Press the ▲▼ ◄► buttons to move to a desired track, then press the YELLOW (C) button to check the desired track. Repeat this procedure to select additional tracks.
4. If you want to remove a track from the playlist, go to the track, and then press the YELLOW (C) button again. The track is removed.
5. Press the ENTER button to play the selected tracks. The selected tracks will play automatically.
To go to the Music List, press the STOP button or RETURN button.

To go to the Playlist, press the ENTER button.

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

Playing back Pictures

Playing JPEG files
1. Insert a JPEG disc into the disc tray.
2. Press the ►► buttons to select Photos, and then press the ENTER button.
3. Press the ▲▼◄► buttons to select the folder you want to play, and then press the ENTER button.
4. Press the ▲▼◄► buttons to select the photo you want to play, and then press the ENTER button.

NOTE
- You can’t enlarge the subtitle and PG graphic in the full screen mode.

Using the TOOLS button
You can use various functions by pressing the TOOLS button.

- Start Slide Show: Select to start the slide show.
- Stop Slide Show: Select if you want to stop the slide show.
- Slide Show Speed: Select if you want to adjust the Slide Show speed.
- Background Music: Select to listen to music while viewing a slide show.
- Zoom: Select to enlarge the current picture. (Enlarged 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 including the name and size, etc.

NOTE
- 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.

Playing back a USB Storage Device
You can use the USB connection to play multimedia files (MP3, JPEG, DivX, etc) located from on a USB storage device.

1. Move to the Home menu.
2. In Stop mode, connect the USB storage device to the USB port on the front panel of the player. The message “Do you want to access the device?” will be displayed.
3. Press the ◄► button to select Yes, then press the ENTER button.
4. Press the RED (A) button.

5. Press the ◄► buttons to select USB, then press the ENTER button.
6. Press the ►► buttons to select the desired Videos, Music or Photos, then press the ENTER button. Go to Step 7. If you pressed the BLUE (D) button, go to Step 4-1.

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 MENU button to move to the Home menu, select the YELLOW (C) button, and then press the ENTER button.
- When the Audio-CD (CD-DA), MP3 and JPEG files are in stop mode, pressing the FULL SCREEN button on the remote will not bring up a full screen picture.
- If you insert a disc when playing a USB storage device, the device mode changes to “DVD or CD” automatically.

5*. Press the ◄► buttons to select USB, then press the ENTER button.
6*. Press the ▲▼ buttons to select the desired Videos, Music or Photos, then press the ENTER button.
7. For playing back Video, Music or Photo files see pages 18–21.

NOTE
- You can’t enlarge the subtitle and PG graphic in the full screen mode.
Network Services

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

Read the following instructions before using any network service.

1. Connecting the player to the network (pages 10 and 11).
2. Configuring the network settings (page 16).

**BD-LIVE™**

Once the player is connected to the network, you can enjoy various movie-related service contents using a BD-LIVE compliant disc.

1. Attach a USB memory stick to the USB jack on the side 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. Insert a Blu-ray Disc that supports BD-LIVE.
3. 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.

**Software Upgrade Notification**

When connected to the network, the player can notify you if a new software version is available.

1. Turn on the player.
2. In the Software Upgrade menu, set Auto Upgrade Notification to On.
   If there is a new software version available, the player notifies you with a popup message.
3. To upgrade the firmware, select Yes on the Pop-up. The player turns off automatically, then restarts, and begins the download. (Never turn on the player manually here.)
4. The update progress popup appears. When the update is complete, the player turns off again automatically.
5. Press the POWER button to turn on the player.

**NOTE**

- Update is complete when the player turns off after restarting. Press the POWER button to turn on the updated player for your use. Never turn the player off or on manually during the update process.
- Samsung Electronics shall take no legal responsibility for player malfunction caused by unstable internet connection or consumer negligence during software upgrade.

Appendix

**Troubleshooting**

Before requesting service, please check the following.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>No operation can be performed with the remote control.</td>
<td>• Check the batteries in the remote control. They may need replacing. • Operate the remote control at a distance of no more than 20 feet. • Remove batteries and hold down one or more buttons for several minutes to drain the microprocessor inside the remote control to reset it. Reinstall batteries and try to operate the remote control again.</td>
</tr>
<tr>
<td>Disc does not play.</td>
<td>• Ensure that the disc is installed with the label side facing up. • Check the region number of the Blu-ray Disc/DVD.</td>
</tr>
<tr>
<td>Disc Menu does not appear.</td>
<td>• Ensure that the disc has disc menus.</td>
</tr>
<tr>
<td>The prohibition message appears on the screen.</td>
<td>• 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.</td>
</tr>
<tr>
<td>Play mode differs from the Setup Menu selection.</td>
<td>• Some of the functions selected in the Setup Menu may not work properly if the disc is not encoded with the corresponding function.</td>
</tr>
<tr>
<td>The screen ratio cannot be changed.</td>
<td>• The Screen Ratio is fixed on your Blu-ray Disc/DVD. • This is not a problem with the player.</td>
</tr>
<tr>
<td>No audio.</td>
<td>• Make sure you have selected the correct Digital Output in the Audio Options Menu.</td>
</tr>
<tr>
<td>The screen is blocked</td>
<td>• 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 STOP (■) button (on the 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 is deleted.</td>
</tr>
</tbody>
</table>
**Forgot password**

- Press the STOP ( ) button (on the 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 is 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, 1080p HDMI input resolutions.

**Abnormal HDMI output screen.**

- If random noise appears on the screen, it means that TV does not support HDCP (High-bandwidth Digital Content Protection).

**BD-LIVE**

**I cannot connect to the BD-LIVE server.**

- Check whether the network connection is successful or not by using the Network Status menu.
- Check whether the 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.
- Check whether the BD-LIVE Internet Connection menu is set to Allow (All).
- If all above fails, contact the contents provider or update the player to the latest firmware.

**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.

**NOTE**

- When the factory default settings are restored, all stored user BD data is 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 manual thoroughly, search for a solution online at www.samsung.com, or contact Samsung Customer Care at 1-800-SAMSUNG (726-7864) before seeking to repair your player.

---

**Specifications**

<table>
<thead>
<tr>
<th>General</th>
<th>Power Requirements</th>
<th>AC 120V, 60Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Power Consumption</td>
<td>19W</td>
</tr>
<tr>
<td></td>
<td>Weight</td>
<td>3.3 lbs</td>
</tr>
<tr>
<td></td>
<td>Dimensions</td>
<td>17.0 (W) X 7.5 (D) X 1.6 (H) inches</td>
</tr>
<tr>
<td></td>
<td>Operating Temperature Range</td>
<td>+41°F to +95°F</td>
</tr>
<tr>
<td></td>
<td>Operating Humidity Range</td>
<td>10 % to 75 %</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Disc</th>
<th>BD (Blu-ray Disc)</th>
<th>Reading Speed : 9.834 m/sec</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DVD (Digital Versatile Disc)</td>
<td>Reading Speed : 6.98 ~ 7.68 m/sec</td>
</tr>
<tr>
<td></td>
<td>CD : 5 inches (COMPACT DISC)</td>
<td>Approx. Play Time (Single Sided, Single Layer Disc) : 135 min.</td>
</tr>
<tr>
<td></td>
<td>CD : 3 1/2 inches (COMPACT DISC)</td>
<td>Reading Speed : 4.8 ~ 5.6 m/sec.</td>
</tr>
<tr>
<td></td>
<td>Maximum Play Time : 74 min.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum Play Time : 20 min.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Video Output</th>
<th>Composite Video</th>
<th>1 Channel : 1.0 Vp-p (75Ω load)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Blu-ray Disc/DVDs : 480i</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Video/Audio</th>
<th>HDMI</th>
<th>1080p, 1080i, 720p, 480p</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PCM audio, Bitstream audio</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Audio Output</th>
<th>2 Channel</th>
<th>L(1/L), R(2/R)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Digital Audio Output</td>
<td>Coaxial</td>
</tr>
</tbody>
</table>

- Design and specifications are subject to change without prior notice.
- Weight and dimensions are approximate.
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) discs; BD-RE/-R, DVD-RW/-R discs; and CD-RW/-R discs.

- 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.

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.

- 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.

- 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.

- 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.

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DiSCOVER

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