



OWNER'S MANUAL

# Blu-ray Disc™/ DVD Player

Please read this manual carefully before operating  
your set and retain it for future reference.

BP250

P/NO : MFL68888703

[www.lg.com](http://www.lg.com)

## Safety Information



**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN



**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.



This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's

enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing)

instructions in the literature accompanying the product.

**WARNING:** TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

**CAUTION:** The apparatus shall not be exposed to water (dripping or splashing) and no objects filled with liquids, such as vases, shall be placed on the apparatus.

**WARNING:** Do not install this equipment in a confined space such as a book case or similar unit.

**CAUTION:** Do not use high voltage products around this product. (ex. Electrical swatter) This product may malfunction due to electrical shock.

**CAUTION:** Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from over heating. The openings shall be never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product shall not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instruction has been adhered to.

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT
CLASSE 1 PRODUIT LASER
KELAS 1 PRODUK LASER
URZĄDZENIE LASEROWE KLASY 1

**CAUTION:** This product employs a Laser System. To ensure proper use of this product, please read this owner's manual carefully and retain it for future reference. Shall the unit require maintenance, contact an authorized service center.

Use of controls, adjustments or the performance of procedures other than those specified herein may result in hazardous radiation exposure.

To prevent direct exposure to laser beam, do not try to open the enclosure.

### CAUTION concerning the Power Cord

Most appliances recommend they be placed upon a dedicated circuit;

That is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain. Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized service center. Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance. To disconnect power from the mains, pull out the mains cord plug. When installing the product, ensure that the plug is easily accessible.

**NOTICE:** For safety marking information including product identification and supply ratings, please refer to the main label on the bottom or rear of the apparatus.

**CAUTION:** Only use the AC adapter supplied with this device. Do not use a power supply from another device or another manufacturer. Using any other power cable or power supply may cause damage to the device and void your warranty.

This device is equipped with a portable battery or accumulator.

**Safety way to remove the battery or the battery from the equipment:** Remove the old battery or battery pack, follow the steps in reverse order than the assembly. To prevent contamination of the environment and bring on possible threat to human and animal health, the old battery or the battery put it in the appropriate container at designated collection points. Do not dispose of batteries or battery together with other waste. It is recommended that you use local, free reimbursement systems batteries and accumulators. The battery shall not be exposed to excessive heat such as sunshine, fire or the like.

#### Disposal of your old appliance



1. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
2. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
3. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

#### Disposal of waste batteries/accumulators



Pb

1. This symbol may be combined with chemical symbols for mercury(Hg), cadmium(Cd) or lead(Pb) if the battery Contains more than 0.0005% of mercury, 0.002% of cadmium or 0.004% of lead.
2. All batteries/accumulators should be disposed separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
3. The correct disposal of Your old batteries/ accumulators will help to prevent potential negative consequences for the environment, animal and human health.
4. For more detailed information about disposal of Your old batteries/ accumulators, please contact Your city office, waste disposal service or the shop where You purchased the product.

#### Contact office for compliance of this product:

LG Electronics European Shared Service Center B.V.

European Standard Team  
Krijgsman 1  
1186 DM Amstelveen  
The Netherlands

## Notes on Copyrights

- 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 systems 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 an authorized Customer Service Center.
- Many BD-ROM/DVD discs 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 discs.
- This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Rovi Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Rovi Corporation. Reverse engineering or disassembly is prohibited.
- Under the U.S. Copyright laws and Copyright laws of other countries, unauthorized recording, use, display, distribution, or revision of television programs, videotapes, BD-ROM discs, DVDs, CDs and other materials may subject you to civil and/or criminal liability.

## Important Notice for TV color system

The color system of this player differs according to currently playing discs.

For example, when the player plays the disc recorded in the NTSC color system, the image is output as an NTSC signal.

Only the multi system color TV can receive all signals output from the player.

- If you have a PAL color system TV, you will see just distorted images when using discs or video contents recorded in NTSC.
- The multi system color TV changes the color system automatically according to input signals. In case that the color system is not changed automatically, turn it off and then on to see normal images on screen.
- Even if the disc recorded in NTSC color system are well displayed on your TV, these may not be recorded correctly on your recorder.

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Some of contents in this manual may differ from your player depending on the software of the player or your service provider.

# Introduction

## Playable discs and symbols used in this manual

Media/Term	Logo	Symbol	Description
Blu-ray		<b>BD</b>	<ul style="list-style-type: none"> <li>Discs such as movies that can be purchased or rented.</li> <li>BD-R/RE discs that are recorded in BDAV format.</li> </ul>
		<b>MOVIE</b> <b>MUSIC</b> <b>PHOTO</b>	<ul style="list-style-type: none"> <li>BD-R/RE discs that contain Video, Audio or Photo files.</li> <li>ISO 9660+JOLIET, UDF and UDF Bridge format</li> </ul>
DVD-ROM DVD-R DVD-RW DVD+R DVD+RW		<b>DVD</b>	<ul style="list-style-type: none"> <li>Discs such as movies that can be purchased or rented.</li> <li>Video mode and finalized only</li> <li>Supports the dual layer disc also</li> </ul>
		<b>AVCHD</b>	Finalized AVCHD format
		<b>MOVIE</b> <b>MUSIC</b> <b>PHOTO</b>	<ul style="list-style-type: none"> <li>DVD±R/RW discs that contain Video, Audio or Photo files.</li> <li>ISO 9660+JOLIET, UDF and UDF Bridge format</li> </ul>
DVD-RW (VR)		<b>DVD</b>	VR mode and finalized only
Audio CD		<b>ACD</b>	Audio CD
CD-R/RW		<b>MOVIE</b> <b>MUSIC</b> <b>PHOTO</b>	<ul style="list-style-type: none"> <li>CD-R/RW discs that contain Video, Audio or Photo files.</li> <li>ISO 9660+JOLIET, UDF and UDF Bridge format</li> </ul>
<b>Note</b>	—	!	Indicates special notes and operating features.
<b>Caution</b>	—	⚠	Indicates cautions for preventing possible damages from abuse.

**! Note**

- Depending on the conditions of the recording equipment or the CD-R/RW (or DVD±R/RW) disc itself, some CD-R/RW (or DVD±R/RW) discs cannot be played on the unit.
- Depending on the recording software & the finalization, some recorded discs (CD-R/RW, DVD±R/RW, BD-R/RE) may not be playable.
- BD-R/RE, DVD±R/RW and CD-R/RW discs recorded using a personal computer or a DVD or CD Recorder may not play if the disc is damaged or dirty, or if there is dirt or condensation on the player's lens.
- If you record a disc using a personal computer, even if it is recorded in a compatible format, there are cases in which it may not play because of the settings of the application software used to create the disc. (Check with the software publisher for more detailed information.)
- This player requires discs and recordings to meet certain technical standards in order to achieve optimal playback quality.
- Pre-recorded DVDs are automatically set to these standards. There are many different types of recordable disc formats (including CD-R containing MP3 or WMA files) and these require certain pre-existing conditions to ensure compatible playback.
- Customers should note that permission is required in order to download MP3 / WMA files and music from the Internet. Our company has no right to grant such permission. Permission should always be sought from the copyright owner.
- You have to set the disc format option to [Mastered] in order to make the discs compatible with the LG players when formatting rewritable discs. When setting the option to Live System, you cannot use it on LG player. (Mastered/Live File System : Disc format system for windows Vista)

**About the “Ø” symbol display**

“Ø” may appear on your TV display during operation and indicates that the function explained in this owner's manual is not available on that specific media.

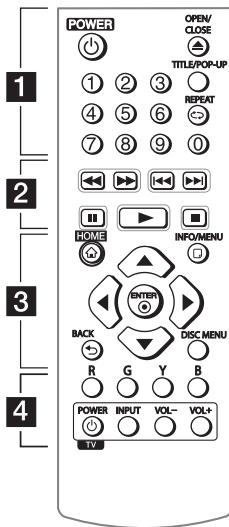
**Regional code**

This unit has a regional code printed on the rear of the unit. This unit can play only BD-ROM or DVD discs labeled same as the rear of the unit or “ALL”.

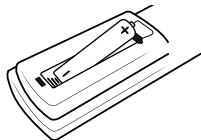
**System Select**

Open the disc tray using the ▲ (OPEN/CLOSE) button and then, press and hold ■ (PAUSE) for more than five seconds to change the color system (PAL /NTSC /AUTO).

## Remote Control



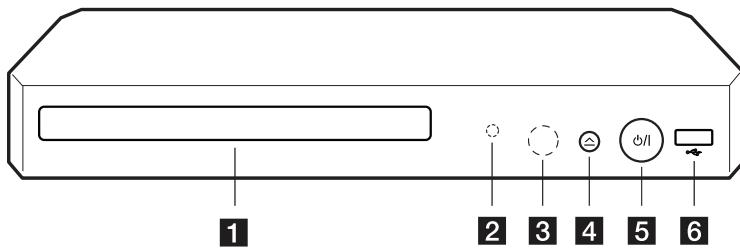
### Battery Installation



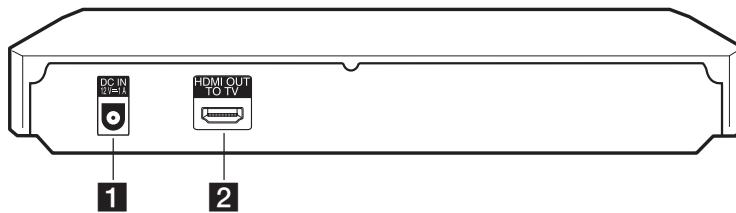
Remove the battery cover on the rear of the Remote Control, and insert the R03 (size AAA) battery with **⊕** and **⊖** matched correctly.

- • • • **1** • • • •
- POWER**: Switches the player ON or OFF.
- OPEN/CLOSE**: Opens and closes the disc tray.
- 0-9 numerical buttons**: Selects numbered options in a menu.
- TITLE/POP-UP**: Displays the DVD title menu or BD-ROM's pop-up menu, if available.
- REPEAT (CD)**: Repeats a desired section or sequence.
- • • • **2** • • • •
- ◀◀/▶▶ (SCAN)**: Searches backward or forward.
- ◀◀/▶▶ (SKIP)**: Goes to the next or previous chapter / track / file.
- II (PAUSE)**: Pauses playback.
- ▶ (PLAY)**: Starts playback.
- (STOP)**: Stops playback.
- • • • **3** • • • •
- HOME (H)**: Displays or exits the [Home Menu].
- INFO/MENU (□)**: Displays or exits On-Screen Display.
- Direction buttons (▲/▼/◀/▶)**: Selects an option in the menu.
- ENTER (◎)**: Acknowledges menu selection.
- BACK (□)**: Exits the menu or returns to the previous screen.
- DISC MENU**: Accesses menu on a disc.
- • • • **4** • • • •
- Colored (R, G, Y, B) buttons**: Use to navigate BD-ROM menus. They are also used for [MOVIE], [PHOTO] and [MUSIC] menu.
- TV Control Buttons**: See page 35.

## Front Panel



## Rear Panel

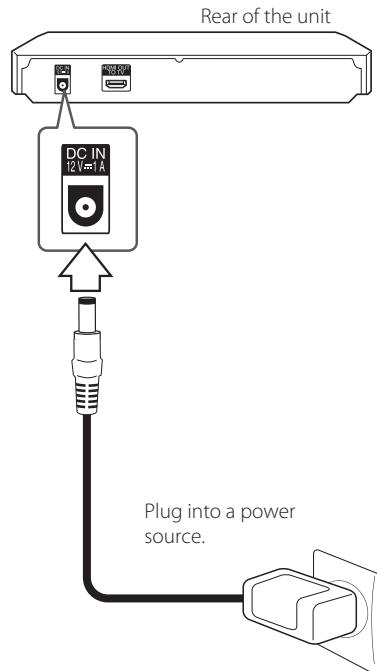


**1** DC IN 12V (AC adapter input)

**2** HDMI OUT

## Connecting the AC Adapter

Connect the unit to the power supply with the supplied AC adapter.



- Contact an electrical parts distributor for assistance in selecting a suitable AC plug adapter or AC cord set.

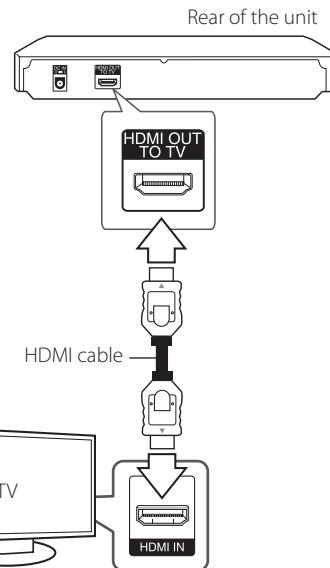


### Caution

Only use the AC adapter supplied with this device. Do not use a power supply from another device or manufacturer. Using any other power cable or power supply may cause damage to the device and void your warranty.

## Connecting to your TV

If you have an HDMI TV or monitor, you can connect it to this player using an HDMI cable (Type A, High Speed HDMI™ Cable). Connect the HDMI jack on the player to the HDMI jack on an HDMI compatible TV or monitor.



Set the TV's source to HDMI (refer to TV's Owner's manual).



### Note

Please refer to the manuals of your TV, Stereo system or other devices as necessary to make the best connections.

## Additional information for HDMI

- When you connect an HDMI or DVI compatible device make sure of the following:
  - Try switching off the HDMI/DVI device and this player. Next, switch on the HDMI/DVI device and leave it for around 30 seconds, then switch on this player.
  - The connected device's video input is set correctly for this unit.
  - The connected device is compatible with 720x576p, 1280x720p, 1920x1080i or 1920x1080p video input.
- Not all HDCP-compatible HDMI or DVI devices will work with this player.
  - The picture will not be displayed properly with non-HDCP device.

### ! Note

- If a connected HDMI device does not accept the audio output of the player, the HDMI device's audio sound may be distorted or may not output.
- When you use HDMI connection, you can change the resolution for the HDMI output. (Refer to "Resolution Setting" on page 13)
- Select the type of video output from the HDMI OUT jack using [HDMI Color Setting] option on the [Settings] menu (page 17).
- Changing the resolution when the connection has already been established may result in malfunctions. To solve the problem, turn off the player and then turn it on again.
- When the HDMI connection with HDCP is not verified, TV screen is changed to black screen. In this case, check the HDMI connection, or disconnect the HDMI cable.
- If there are noises or lines on the screen, please check the HDMI cable (length is generally limited to 4.5 m(15 ft.)).

## What is SIMPLINK?



Some functions of this unit are controlled by the TV's remote control when this unit and LG TV's with SIMPLINK are connected through HDMI connection.

Controllable functions by LG TV's remote control; Play, Pause, Scan, Skip, Stop, Power Off, etc.

Refer to the TV owner's manual for the details of SIMPLINK function.

LG TV's with SIMPLINK function has the logo as shown above.



### Note

Depending on the disc type or playing status, some SIMPLINK operation may differ from your purpose or not work.

## Resolution setting

The player provides several output resolutions for HDMI OUT jack. You can change the resolution using [Settings] menu.

1. Press HOME (HOME).
2. Use **◀/▶** to select the [Settings] and press ENTER (ENTER). The [Settings] menu appears.
3. Use **▲/▼** to select [DISPLAY] option then press **▶** to move to the second level.
4. Use **▲/▼** to select the [Resolution] option then press ENTER (ENTER) to move to the third level.



5. Use **▲/▼** to select the desired resolution then press ENTER (ENTER) to confirm your selection.



### Note

- If your TV does not accept the resolution you have set on the player, you can set resolution to 576p as follows:
  1. Press **▲** to open the disc tray.
  2. Press **■** (STOP) for more than 5 seconds.
- If you select a resolution manually and then connect the HDMI jack to TV and your TV does not accept it, the resolution setting is set to [Auto].
- If you select a resolution that your TV does not accept, the warning message will appear. After resolution change, if you cannot see the screen, please wait 20 seconds and the resolution will automatically revert back to the previous resolution.
- The 1080p video output frame rate may be automatically set to either 24 Hz or 50 Hz depending both on the capability and preference of the connected TV and based on the native video frame rate of the content on the BD-ROM disc.

## Connecting to an Amplifier

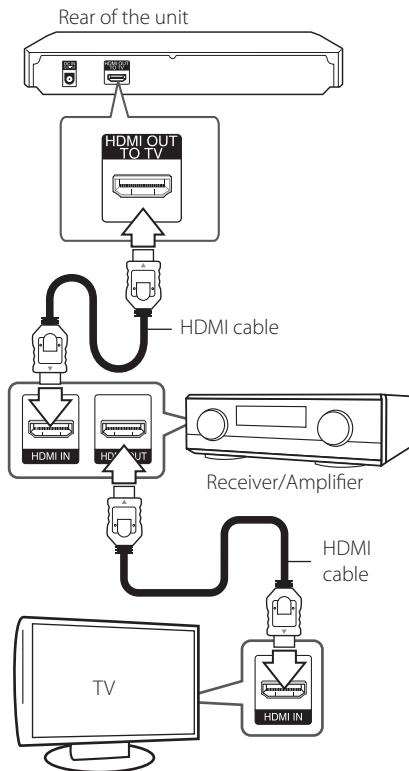
Since many factors affect the type of audio output, see "Audio output specifications" for details (page 39).

### About Digital Multi-channel sound

A digital multi-channel connection provides the best sound quality. For this, you need a multi-channel Audio/Video Receiver that supports one or more of the audio formats supported by your player. Check the logos on the front of the Audio/Video receiver and the manual. (PCM Stereo, PCM Multi-Ch, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS and/or DTS-HD)

### Connecting to an amplifier via HDMI output

Connect the player's HDMI OUT jack to the corresponding jack on your amplifier using an HDMI cable.



Connect the amplifier's HDMI output jack to HDMI input jack on your TV using an HDMI cable if your amplifier has HDMI output jack.

You will need to activate the player's digital output. (See "[AUDIO] Menu" on page 18)

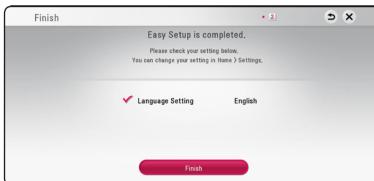
## Initial Setup

When you turn on the unit for the first time, the initial setup wizard appears on the screen. Set the display language on the initial setup wizard.

1. Press **POWER**.
2. The initial setup wizard appears on the screen.
2. Use **▲/▼/◀/▶** to select a display language and press **ENTER** (◎).



3. Check the setting that you have set in the previous step.



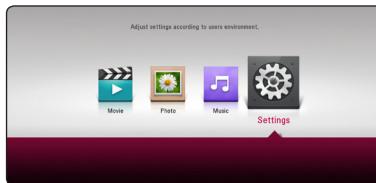
Press **ENTER** (◎) while [Finish] is highlighted to finish the initial setup setting. If you want to change the setting, use **▲/▼/◀/▶** to select **▶** and press **ENTER** (◎).

## Settings

### Adjust the setup settings

You can change the settings of the player in the [Settings] menu.

1. Press **HOME** (⌂).



2. Use **◀/▶** to select the [Settings] and press **ENTER** (◎). The [Settings] menu appears.



3. Use **▲/▼** to select the first setup option, and press **▶** to move to the second level.



4. Use **▲/▼** to select a second setup option, and press **ENTER** (◎) to move to the third level.



5. Use **▲/▼** to select a desired setting, and press **ENTER** (◎) to confirm your selection.

## [DISPLAY] menu

### TV Aspect Ratio

Select a TV aspect ratio option according to your TV type.

#### [4:3 Letter Box]

Select when a standard 4:3 TV is connected.  
Displays theatrical images with masking bars above and below the picture.

#### [4:3 Pan Scan]

Select when a standard 4:3 TV is connected.  
Displays pictures cropped to fill your TV screen.  
Both sides of the picture are cut off.

#### [16:9 Original]

Select when a 16:9 wide TV is connected. The 4:3 picture is displayed with an original 4:3 aspect ratio, with black bars appearing at the left and right sides.

#### [16:9 Full]

Select when a 16:9 wide TV is connected. The 4:3 picture is adjusted horizontally (in a linear proportion) to fill the entire screen.

#### ! Note

You cannot select [4:3 Letter Box] and [4:3 Pan Scan] option when the resolution is set to higher than 720p.

### Resolution

Sets the output resolution of the HDMI video signal.  
Refer to page 13 for details about the resolution setting.

#### [Auto]

If the HDMI OUT jack is connected to TVs providing display information (EDID), automatically selects the resolution best suited to the connected TV.

#### [576p]

Outputs 576 lines of progressive video.

#### [720p]

Outputs 720 lines of progressive video.

#### [1080i]

Outputs 1080 lines of interlaced video.

#### [1080p]

Outputs 1080 lines of progressive video.

### 1080p Display Mode

When the resolution is set to 1080p, select [24 Hz] for smooth presentation of film material (1080p/24 Hz) with an HDMI-equipped display compatible with 1080p/24 Hz input.

#### ! Note

- When you select [24 Hz], you may experience some picture disturbance when the video switches video and film material. In this case, select [50 Hz].
- Even when [1080p Display Mode] is set to [24 Hz], if your TV is not compatible with 1080p/24 Hz, the actual frame frequency of the video output will be 50 Hz to match the video source format.

## HDMI Color Setting

Select the type of output from the HDMI OUT jack. For this setting, please refer to the manuals of your display device.

### [YCbCr]

Select when connecting to an HDMI display device.

### [RGB]

Select when connecting to a DVI display device.

## Home Menu Guide

This function allows you to display or delete the guide bubble on the Home Menu. Set this option to [On] for displaying guide.

## [LANGUAGE] menu

### Display Menu

Select a language for the [Settings] menu and on-screen display.

### Disc Menu/Disc Audio/ Disc Subtitle

Select the language you prefer for the audio track (disc audio), subtitles, and the disc menu.

#### [Original]

Refers to the original language in which the disc was recorded.

#### [Other]

Press ENTER (◎) to select another language. Use number buttons then press ENTER (◎) to enter the corresponding 4-digit number according to the language code list on page 41.

#### [Off] (Disc Subtitle only)

Turn off Subtitle.

#### ! Note

Depending on the disc, your language setting may not work.

## [AUDIO] menu

Each disc has a variety of audio output options. Set the player's Audio options according to the type of audio system you use.

### ! Note

Since many factors affect the type of audio output, see "Audio Output Specifications" on page 39 for details.

## Digital Output

### [Auto]

Select if you connect this unit's HDMI OUT jack to a device with LPCM, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS and DTS-HD decoder.

### [PCM]

Select if you connect this unit's HDMI OUT jack to a device with digital decoder.

### [DTS Re-Encode]

Select if you connect this unit's HDMI OUT jack to a device with DTS decoder.

### ! Note

- When [Digital Output] option is set to [Auto], the audio may output as bitstream. If the bitstream information is not detected from HDMI device with EDID, the audio may output as PCM.
- If the [Digital Output] option is set to [DTS Re-Encode], the DTS Re-Encode audio is outputted for BD-ROM discs with secondary audio and the original audio is outputted for the other discs (like [Auto]).

## Sampling Freq. (Digital Audio Output)

### [48 kHz]

Select this if your A/V Receiver or Amplifier is not capable of handling 192 kHz and 96 kHz signal. When this choice is made, this unit automatically converts any 192 kHz and 96 kHz signals to 48 kHz so your system can decode them.

### [96 kHz]

Select this if your A/V Receiver or Amplifier is not capable of handling 192 kHz signals. When this choice is made, this unit automatically converts any 192 kHz signals to 96 kHz so your system can decode them.

### [192 kHz]

Select this if your A/V Receiver or Amplifier is capable of handling 192 kHz signals.

Check the documentation for your A/V Receiver or Amplifier to verify its capabilities.

## DRC (Dynamic Range Control)

This function allows you to listen to a movie at a lower volume without losing clarity of sound.

### [Auto]

The dynamic range of the Dolby TrueHD audio output is specified by itself. And the dynamic range of the Dolby Digital and Dolby Digital Plus are operated as same as the [On] mode.

### [On]

Compress the dynamic range of the Dolby Digital, Dolby Digital Plus or Dolby TrueHD audio output.

### [Off]

Turns off this function.

### ! Note

The DRC setting can be changed only when a disc is not inserted or the unit is in complete stop mode.

## [LOCK] menu

The [LOCK] settings affect only Blu-ray Disc and DVD playback.

To access the any features in [LOCK] settings, you must enter the 4-digit security code you have created.

If you have not entered a password yet, you are prompted to do so. Enter a 4-digit password twice, and press ENTER (◎) to create a new password.

### Password

You can create or change the password.

#### [None]

Enter a 4-digit password twice, and press ENTER (◎) to create a new password.

#### [Change]

Enter the current password and press ENTER (◎). Enter a 4-digit password twice, and press ENTER (◎) to create a new password.

### If you forget your password

If you forget your password, you can clear it using the following steps:

1. Remove any disc that might be in the player.
2. Highlight [Password] option in the [Settings] menu.
3. Use number buttons to enter "210499". The password is cleared.



#### Note

If you make a mistake before pressing ENTER (◎), press ▲. Then input the correct password.

## DVD Rating

Blocks playback of rated DVD based on their content. (Not all discs are rated.)

#### [Unlock]

If you select [Unlock], parental control is not active and the disc plays in full.

#### [Rating 1-8]

Rating one (1) has the most restrictions and rating eight (8) is the least restrictive.

## Blu-ray Disc Rating

Set an age limit of BD-ROM play. Use number buttons to input an age limit for BD-ROM viewing.

#### [255]

All BD-ROM can be played.

#### [0-254]

Prohibits play of BD-ROM with corresponding ratings recorded on them.

#### ! Note

The [Blu-ray Disc Rating] will be applied only for the Blu-ray disc that containing the Advanced Rating Control.

## Area Code

Enter the code of the area whose standards were used to rate the DVD video disc, based on the list on page 40.

1234567890

## [OTHERS] menu

### Auto Power Off

The screen saver appears when you leave the player in Stop mode for about five minutes. If you set this option to [On], the unit automatically turns off within 15 minutes since the Screen Saver is displayed. Set this option to [Off] to leave the screen saver until the unit is operated by the user.

### Initialize

#### [Factory Set]

You can reset the player to its original factory settings.

#### [Blu-ray Storage Clear]

Initializes the Blu-ray contents from the connected USB storage.



#### Note

If you reset the player to its original factory settings using [Factory Set] option, you have to set the display language again.

### Software

#### [Information]

Displays the current software version.

#### [OSS Notice]

LGE Open Source Software Notice is displayed.

## Home Menu Display

### Using [HOME] menu

The home menu appears when you press HOME (⌂). Use ▲ / ▼ to select a category and press ENTER (◎).



<b>1</b>	[Movie] - Plays video content.
<b>2</b>	[Photo] - Plays photo content.
<b>3</b>	[Music] - Plays audio content.
<b>4</b>	[Settings] - Adjusts the system settings.

## Playing the Linked Devices

### Playing a Disc

**BD DVD AVCHD ACD**

1. Press ▲ (OPEN/CLOSE), and place a disc on the disc tray.
2. Press ▲ (OPEN/CLOSE) to close the disc tray.  
For the most Audio CD, BD-ROM and DVD-ROM discs, playback starts automatically.
3. Press HOME (⌂).
4. Select [Movie] or [Music], and select disc icon.

**! Note**

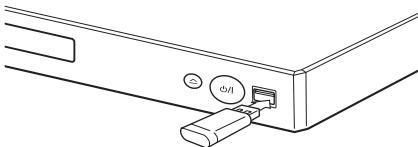
- Playback functions described in this manual are not always available in every files and media. Some functions can be restricted depending on many factors.
- Depending on the BD-ROM titles, a USB device connection may be needed for the proper playback.
- Unfinalized DVD-VR format discs may not be played in this player.
- Some DVD-VR discs are made with CPRM data by DVD RECORDER. This unit cannot support these kinds of discs.

## Playing a file on disc/USB device

### MOVIE | MUSIC | PHOTO

This player can play video, audio and photo files contained in the disc or USB device.

1. Insert a data disc on the tray or connect a USB device.



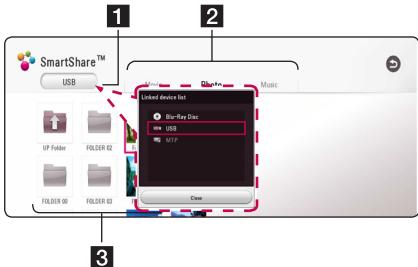
When you connect the USB device on the HOME menu, the player plays an audio file contained in the USB storage device automatically. If the USB storage device is containing various types of files, a menu for the file type selection will appear.

4

Operating

File loading may take few minutes depending on the number of content stored in the USB storage device. Press ENTER (◎) while [Cancel] is selected to stop loading.

2. Press HOME (HOME).
3. Select [Movie], [Photo] or [Music] using ▲/▼/◀/▶, and press ▼.
4. Select Disc or USB and press ENTER (◎).



1. Displays all linked devices.
2. Displays video, photo or audio content.
3. Displays the file or folder on linked device.
5. Select a file using ▲/▼/◀/▶, and press ▶ (PLAY) or ENTER (◎) to play the file.

### Notes on USB device

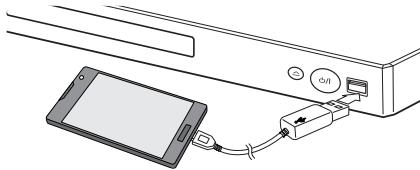
- This player supports USB flash drive/external HDD formatted in FAT32 and NTFS when accessing files (music, photo, movie). However, for Blu-ray contents, only FAT32 format is supported. Use the USB flash drive/external HDD formatted in either FAT32 or NTFS when enjoying Blu-ray contents.
- This unit can support up to 4 partitions of the USB device.
- Do not extract the USB device during operation (play, etc.).
- A USB device which requires additional program installation when you have connected it to a computer, is not supported.
- USB device: USB device that supports USB1.1 and USB2.0.
- Video, audio and photo files can be played. For details of playing each file type, refer to the relevant pages.
- Regular back up is recommended to prevent data loss.
- If you use a USB extension cable, USB HUB or USB Multi-reader, the USB device may not be recognized.
- Some USB device may not work with this unit.
- Some digital cameras and mobile phones are not supported.
- USB Port of the unit cannot be connected to PC. The unit cannot be used as a storage device.

## Playing a file on Android device

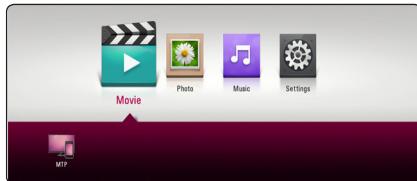
### MOVIE | MUSIC | PHOTO

This player can play video, audio and photo files contained in Android device.

1. Connect Android device to the unit with USB cable. Make sure that MTP is activated on Android device.

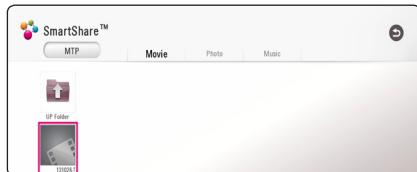


2. Press HOME (ⓐ).
3. Select [Movie], [Photo] or [Music] using **◀/▶**, and press **▼**.
4. Select [MTP] using **◀/▶** and press ENTER (◎).



File loading may take few minutes depending on the number of content stored in Android device.

5. Select a file using **▲/▼/◀/▶**, and press **▶** (PLAY) or ENTER (◎) to play the file.



### Notes on Connecting Android device

- This unit can support only MTP (Media Transfer Protocol) Android (4.0 or later is recommended) devices.
- Do not extract Android device during operation (play, etc.).
- Video, audio and photo files can be played. For details of playing each file type, refer to the relevant pages.
- Regular back up is recommended to prevent data loss.
- If you use a USB extension cable, USB HUB or USB Multi-reader, Android device may not be recognized.
- Some Android devices may not work with this unit.
- When you use MTP, playing some music, photo, movie, or subtitle files may not work depending on Android device.

## General Playback

### Basic operations for video and audio content

#### To stop playback

Press ■ (STOP) during playback.

#### To pause playback

Press ■ (PAUSE) during playback.

Press ▶ (PLAY) to resume playback.

#### To play frame-by-frame (Video)

Press ■ (PAUSE) during movie playback.

Press ■ (PAUSE) repeatedly to play Frame-by-Frame playback.

#### To scan forward or backward

Press ◀◀ or ▶▶ to play fast forward or fast reverse during playback.

You can change the various playback speeds by pressing ◀◀ or ▶▶ repeatedly.

#### To slow down the playing speed (Video)

While the playback is paused, press ▶▶ repeatedly to play various speeds of slow motion.

#### To skip to the next/previous chapter/track/file

During playback, press ◀◀ or ▶▶ to go to the next chapter/track/file or to return to the beginning of the current chapter/track/file.

Press ◀◀ twice briefly to step back to the previous chapter/track/file.

### Basic operations for photo content

#### To play a slide show

Press ▶ (PLAY) to start slide show.

#### To stop a slide show

Press ■ (STOP) during slide show.

#### To pause a slide show

Press ■ (PAUSE) during slide show.

Press ▶ (PLAY) to re-start the slide show.

#### To skip to the next/previous photo

While viewing a photo in full screen, press ◀ or ▶ to go to the previous or next photo.

### Using the disc menu

**BD** **DVD** **AVCHD**

#### To display the disc menu

The menu screen may be displayed first after loading a disc which contains a menu. If you want to display the disc menu during playback, press DISC MENU.

Use ▲/▼/◀/▶ buttons to navigate through menu items.

#### To display the Pop-up menu

Some BD-ROM discs contain Pop-up menu that appears during playback.

Press TITLE/POP-UP during playback, and use ▲/▼/◀/▶ buttons to navigate through menu items.

## Resume playback

**BD DVD AVCHD MOVIE ACD**  
**MUSIC**

The unit records the point where you pressed the ■ (STOP) depending on the disc.

If "■■■ (Resume Stop)" appears on the screen briefly, press ▶ (PLAY) to resume playback (from the scene point).

If you press ■ (STOP) twice or unload the disc, "■■(Complete Stop)" appears on the screen. The unit will clear the stopped point.

### ! Note

- The resume point may be cleared when a button is pressed (for example; ⌄ (POWER), ▲ (OPEN/CLOSE), etc).
- On BD-ROM discs with BD-J, the resume playback function does not work.
- If you press ■ (STOP) once during BD-ROM interactive title playback, the unit will be in Complete Stop mode .

## Last scene memory

**BD DVD**

This unit memorizes the last scene from the last disc that is viewed. The last scene remains in memory even if you remove the disc from the unit or switch off the unit. If you load a disc that has the scene memorized, the scene is automatically recalled.

### ! Note

- Last Scene Memory function for a previous disc is erased once a different disc is played.
- This function may not work depending on the disc.
- On BD-ROM discs with BD-J, the last scene memory function does not work.
- This unit does not memorize settings of a disc if you switch off the unit before commencing to play it.

## On-Screen Display

You can display and adjust various information and settings about the content.

### To control video playback

#### BD DVD AVCHD MOVIE

You can control playback and set options while watching videos.

During playback, press INFO/MENU (□).



- 1 Progress bar** - Displays the current position and total playing time.
- 2 [Disc Menu]** - Accesses menu on a disc.
- 3 [Title/Popup]** - Displays the DVD title menu or BD-ROM's pop-up menu, if available.
- 4 [Option]** - Displays playback information.
- 5 [Repeat]** - Repeats a desired section or sequence. (page 28)

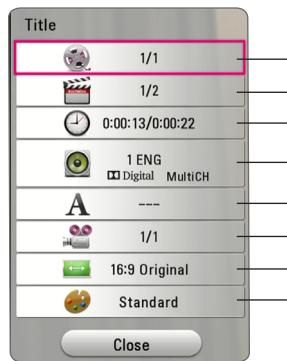
4

Operating

### Displaying content information on-screen

#### BD DVD AVCHD MOVIE

1. During playback, press INFO/MENU (□).
2. Select [Option] using ▲/▼, and press ENTER (◎).



- 1 Title** – Current title number/total number of titles.
- 2 Chapter** – Current chapter number/total number of chapters.
- 3 Time** – Elapsed playing time/total playback time.
- 4 Audio** – Selected audio language or channel.
- 5 Subtitle** – Selected subtitle.
- 6 Angle** – Selected angle/total number of angles.
- 7 TV Aspect Ratio** – Selected TV aspect ratio.
- 8 Picture Mode** – Selected picture mode.

#### Note

- If no button is pressed for a few seconds, the on-screen display disappears.
- A title number cannot be selected on some discs.
- Available items may differ depending on discs or titles.
- If an interactive Blu-ray Disc is playing back, some setting information is displayed on the screen but prohibited to be changed.

## To control photo view

Controls playback and sets options while viewing pictures in full screen.

You can control playback and set options while viewing pictures in full screen.

While viewing pictures, press INFO/MENU (□).

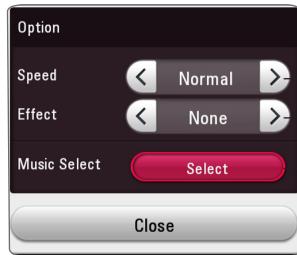


- 1 [Slide show]** - Starts or pause slide show.
- 2 [Music]** - Select the background music for the slide show (page 32).
- 3 [Option]** - Displays slide show options.
- 4 [Rotate]** - Rotates the photo clockwise.
- 5 [Zoom]** - Displays the [Zoom] menu.

## Setting the slide show option

You can use various options during viewing a photo in full screen.

1. While viewing pictures, press INFO/MENU (□).
2. Select [Option] using ▲/▼, and press ENTER (◎)



- 1 [Speed]** - Use ▲/▼ to select a delaying speed between photos in a slide show.
- 2 [Effect]** - Use ▲/▼ to select a transition effect between photos in a slide show.
- 3 [Music Select]** - Select the background music for the slide show (page 32).

## Advanced Playback

### Repeat playback

**BD** **DVD** **AVCHD** **ACD** **MUSIC**  
**MOVIE**

#### Blu-ray Disc / DVD / Video files

During playback, press REPEAT (CD) to select a desired repeat mode.

**A-B** – Selected portion will be repeated continually.

**Chapter** – The current chapter will be played back repeatedly. (BD / DVD only)

**Title** – The current title will be played back repeatedly.

**All** – All the titles or files will be played back repeatedly. (Movie file only)

**Off** – Returns to normal playback.

#### Audio CDs/Audio files

During playback, press REPEAT (CD) repeatedly to select a desired repeat mode.

**AB** – Selected portion will be repeated continually. (Audio CD only)

**Track** – The current track or file will be played back repeatedly.

**All** – All the tracks or files will be played back repeatedly.

**AB All** – All the tracks or files will be played back repeatedly in random order.

**Random** – The tracks or files will be played back in random order.

#### ! Note

This function may not work on some disc or title.

### Repeating a specific portion

**BD** **DVD** **AVCHD** **MOVIE**

This player can repeat a portion you have selected.

1. During playback, press REPEAT (CD).
2. Select [A-B] using ▲/▼, and press ENTER (◎).
3. Press ENTER (◎) at the beginning of the portion you wish to repeat.
4. Press ENTER (◎) at the end of the portion. Your selected portion will be repeated continually.

#### ! Note

- You cannot select a portion less than 3 seconds.
- This function may not work on some disc or title.

### Playing from selected time

**BD** **DVD** **AVCHD** **MOVIE**

1. During playback, press INFO/MENU (□).

2. Select [Option] using ▲/▼, and press ENTER (◎).

3. Select the [Time] option and then input the required start time in hours, minutes, and seconds from left to right.

For example, to find a scene at 2 hours, 10 minutes, and 20 seconds, enter "21020".

Press ▲/▼ to skip the playback 60 seconds forward or backward.

4. Press ENTER (◎) to start playback from selected time.

#### ! Note

This function may not work on some disc or titles.

## Selecting a subtitle language

**BD DVD AVCHD MOVIE**

1. During playback, press INFO/MENU (□).
2. Select [Option] using ▲/▼, and press ENTER (◎).
3. Use ▲/▼ to select the [Subtitle] option.
4. Press ▲/▼ to select desired subtitle language. By pressing ENTER (◎), you can set various subtitle options.
5. Press BACK (◀) to exit the On-Screen display.



### Note

Some discs allow you to change subtitle selections only via the disc menu. If this is the case, press TITLE/POP-UP or DISC MENU button and choose the appropriate subtitle from the selections on the disc menu.

## Hearing a different audio

**BD DVD AVCHD MOVIE**

1. During playback, press INFO/MENU (□).
2. Select [Option] using ▲/▼, and press ENTER (◎).
3. Use ▲/▼ to select the [Audio] option.
4. Use ▲/▼ to select desired audio language, audio track or audio channel.
5. Press BACK (◀) to exit the On-Screen display.



### Note

- Some discs allow you to change audio selections only via the disc menu. In this case, press TITLE/POP-UP or DISC MENU button and choose the appropriate audio from the selections on the disc menu.
- Immediately after you have switched sound, there may be a temporary discrepancy between the display and actual sound.
- On BD-ROM disc, the multi audio format (5.1CH or 7.1CH) is displayed with [MultiCH] in the on-screen display.

## Watching from a different angle

**BD DVD**

If the disc contains scenes recorded at different camera angles, you can change to a different camera angle during playback.

1. During playback, press INFO/MENU (□).
2. Select [Option] using ▲/▼, and press ENTER (◎).
3. Use ▲/▼ to select the [Angle] option.
4. Use ▲/▼ to select desired angle.
5. Press BACK (◀) to exit the On-Screen display.

## Changing the TV Aspect Ratio

**BD AVCHD MOVIE**

You can change the TV aspect ratio setting during playback.

1. During playback, press INFO/MENU (□).
2. Select [Option] using ▲/▼, and press ENTER (◎).
3. Use ▲/▼ to select the [TV Aspect Ratio] option.
4. Use ▲/▼ to select desired option.
5. Press BACK (◀) to exit the On-Screen display.



### Note

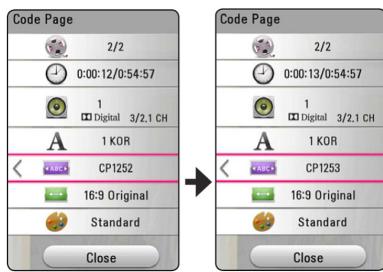
Even if you change the value of the [TV Aspect Ratio] option in On-Screen display, the [TV Aspect Ratio] option in the [Settings] menu is not changed.

## Changing subtitle Code Page

### MOVIE

If the subtitle is displayed in broken letter, you can change the subtitle code page to view the subtitle file properly.

1. During playback, press INFO/MENU (□).
2. Select [Option] using ▲/▼, and press ENTER (◎).
3. Use ▲/▼ to select the [Code Page] option.
4. Use ▲/▼ to select desired code option.



5. Press BACK (◀) to exit the On-Screen display.

## Changing the Picture Mode

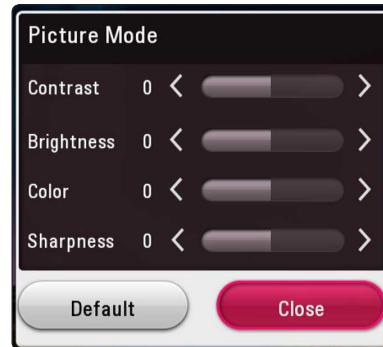
### BD | DVD | AVCHD | MOVIE

You can change the [Picture mode] option during playback.

1. During playback, press INFO/MENU (□).
2. Select [Option] using ▲/▼, and press ENTER (◎).
3. Use ▲/▼ to select the [Picture Mode] option.
4. Use ▲/▼ to select desired option.
5. Press BACK (◀) to exit the On-Screen display.

### Setting the [User setting] option

1. During playback, press INFO/MENU (□).
2. Select [Option] using ▲/▼, and press ENTER (◎).
3. Use ▲/▼ to select the [Picture Mode] option.
4. Use ▲/▼ to select the [User setting] option, and press ENTER (◎).



5. Use ▲/▼/◀/▶ to adjust the [Picture Mode] options.  
Select [Default] option then press ENTER (◎) to reset the all video adjustments.
6. Use ▲/▼/◀/▶ to select the [Close] option, and press ENTER (◎) to finish setting.

## Viewing content information

### MOVIE

The player can display the content information.

1. Select a file using **▲/▼/◀/▶**.
2. Press **INFO/MENU (□)**. The file information appears on the screen.

During video playback, you can display the file information by pressing **TITLE/POP-UP**.

#### ! Note

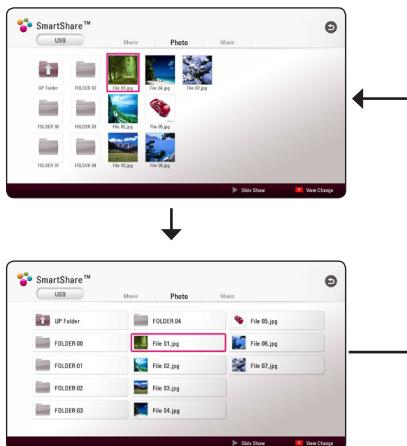
The information displayed on the screen may not correct comparing actual content information.

## Changing content list view

### MOVIE | MUSIC | PHOTO

In the [Movie], [Photo] or [Music] menu, you can change the content list view.

Press red (R) colored button repeatedly.

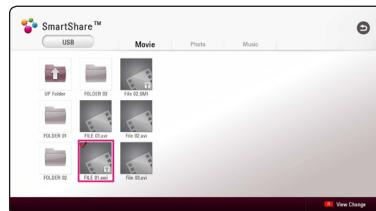


## Selecting a subtitle file

### MOVIE

If the subtitle file name is different from the video file name, you need to select the subtitle file in the [Movie] menu before playing the movie.

1. Use **▲/▼/◀/▶** to select the subtitle file you wish to play in the [Movie] menu.
2. Press **ENTER (◎)**.



Press **ENTER (◎)** again to deselect the subtitle file. Selected subtitle file will be displayed when you play the video file.

#### ! Note

If you press **■ (STOP)** during playback, the subtitle selection is cancelled.

## Listening to music during slide show

### PHOTO

You can display photo files while listening to audio files.

1. While viewing a photo in full screen, press INFO/MENU (□) to display the option menu.
2. Select [Option] using ▲/▼, and press ENTER (◎).
3. Use ▲/▼ to select [Music Select] option, and press ENTER (◎) to display the [Music Select] menu.
4. Use ▲/▼ to select a device, and press ENTER (◎).

Available device may differ depending on the location of the current photo file.

Photo location	Available Device
Disc, USB	Disc, USB
MTP	MTP

5. Use ▲/▼ to select a file or a folder you wish to play.



Select and press ENTER (◎) to display the upper directory.

6. Use ▶ to select [OK], and press ENTER (◎) to complete music selection.

# Troubleshooting

## General

Issue	Cause & Solution
The unit does not work properly.	<ul style="list-style-type: none"> <li>Turn off the power of this unit and the connected external device (TV, Woofer, DVD-player, Amplifier, etc.) and turn it on again.</li> <li>Disconnect the power cord of this unit and the connected external device (TV, Woofer, DVD-player, Amplifier, etc.) and then try connecting again.</li> </ul>
The Power does not turned on.	<ul style="list-style-type: none"> <li>Plug the power cord into the wall outlet securely.</li> <li>Be sure that the AC adaptor is connected to the unit securely.</li> </ul>
The unit does not start playback.	<ul style="list-style-type: none"> <li>Insert a playable disc. (Check the disc type, color system, and regional code.)</li> <li>Place the disc with the playback side down.</li> <li>Place the disc on the disc tray correctly inside the guide.</li> <li>Clean the disc.</li> <li>Cancel the Rating function or change the rating level.</li> </ul>
The connected USB storage device is not recognized.	<ul style="list-style-type: none"> <li>Try using a different USB cable, some USB cables may not support enough current for normal USB operation.</li> <li>If you use a USB extension cable or USB HUB, the USB devices may not be recognized.</li> <li>A USB device which requires additional program installation when you have connected it to a computer is not supported.</li> <li>This unit supports only USB Flash Drive and USB External HDD with FAT32 or NTFS format.</li> </ul>
The angle cannot be changed.	<ul style="list-style-type: none"> <li>Multi-angles are not recorded on the DVD Video being played.</li> </ul>
Cannot play video, photo or audio files.	<ul style="list-style-type: none"> <li>The files are not recorded in a format that the unit can play.</li> <li>The unit does not support the codec of the video file.</li> </ul>
The remote control does not work properly.	<ul style="list-style-type: none"> <li>The remote control is not pointed at the remote sensor of the unit.</li> <li>The remote control is too far from the unit.</li> <li>There is an obstacle in the path of the remote control and the unit.</li> <li>The batteries in the remote control are exhausted.</li> </ul>
The unit is plugged in, but the power will not turn on or off.	<p>You can reset the unit as follows.</p> <ul style="list-style-type: none"> <li>Unplug the power cord, wait at least five seconds, and then plug it in again.</li> </ul>
The unit is not operating normally.	

## Picture

Issue	Cause & Solution
There is no picture.	<ul style="list-style-type: none"> <li>Select the appropriate video input mode on the TV so the picture from the unit appears on the TV screen.</li> <li>Connect the video connection securely.</li> <li>Check the [HDMI Color Setting] in the [Settings] menu is set to the appropriate item that conforms to your video connection.</li> <li>Your TV may not support the resolution you have set on the player. Change the resolution that your TV accepts.</li> <li>The player's HDMI OUT jack is connected to a DVI device that does not support copyright protection.</li> </ul>
Picture noise appears	<ul style="list-style-type: none"> <li>You are playing a disc recorded in a color system that is different from your TV.</li> <li>Set the resolution which your TV accepts.</li> </ul>

## Customer support

You can update the Player using the latest software to enhance the products operation and/or add new features. To obtain the latest software for this player (if updates have been made), please visit <http://www.lg.com> or contact LG Electronics customer care center.

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Troubleshooting

## Open source software notice

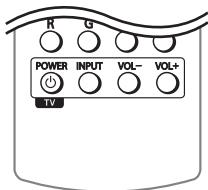
To obtain the source code under GPL, LGPL, MPL and other open source licenses, that is contained in this product, please visit <http://opensource.lge.com>.

In addition to the source code, all referred license terms, warranty disclaimers and copyright notices are available for download.

LG Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping and handling) upon email request to [opensource@lge.com](mailto:opensource@lge.com). This offer is valid for three (3) years from the date on which you purchased the product.

## Controlling a TV with the Supplied Remote Control

You can control your TV using the buttons below.



By pressing	You can
POWER (TV POWER)	Turn the TV on or off.
INPUT	Switch the TV's input source between the TV and other input sources.
VOL +/-	Adjust the volume of the TV

### ! Note

Depending on the unit being connected, you may not be able to control your TV using some of the buttons.

## Setting up the remote to control your TV

You can operate your TV with the supplied remote control.

If your TV is listed in the table below, set the appropriate manufacturer code.

1. While holding down **POWER** (TV POWER) button, and press the manufacturer code for your TV with the numerical buttons (see the table below).

Manufacturer	Code Number
LG	1(Default), 2
Zenith	1, 3, 4
GoldStar	1, 2
Samsung	6, 7
Sony	8, 9
Hitachi	4

2. Release the **POWER** (TV POWER) button to complete setting.

Depending on your TV, some or all buttons may not function on the TV, even after entering the correct manufacturer code. When you replace the battery of the remote, the code number you have set may be reset to the default setting. Set the appropriate code number again.

## Additional Information

### File requirement

#### Video files

File Location	File Extension	Codec Format	Audio Format	Subtitle
Disc, USB	".avi", ".mpg", ".mpeg", ".mkv", ".mp4", ".asf", ".wmv", ".m4v" (DRM free), ".vob", ".3gp", ".mov", ".trp", ".m2t", ".mpe", ".m1v", ".m2v", ".wm", ".flv", ".ts", ".dat"	XVID, MPEG1 SS, H.264/MPEG-4 AVC, MPEG2 PS, MPEG2 TS, VC-1 SM (WMV3)	Dolby Digital, DTS, MP3, WMA, AC3, AAC	SubRip (.srt / .txt), SAMI (.smi), SubStation Alpha (.ssa/.txt), MicroDVD (.sub/.txt), VobSub (.sub), SubViewer 1.0 (.sub), SubViewer 2.0 (.sub/.txt), TMPlayer (.txt), DVD Subtitle System (.txt)

#### Audio files

File Location	File Extension	Sampling Frequency	Bitrate	Note
Disc, USB	".mp3", ".wma", ".wav", ".m4a" (DRM free), ".flac", ".ogg", ".aiff"	within 32 - 48 kHz (WMA), within 16 - 48 kHz (MP3)	within 32 - 192 kbps (WMA), within 32 - 320 kbps (MP3)	Some wav files are not supported on this player.

#### Photo files

File Location	File Extension	Recommended Size	Note
Disc, USB	".jpg", ".jpeg", ".png", ".gif"	Less than 4,000 x 3,000 x 24 bit/pixel Less than 3,000 x 3,000 x 32 bit/pixel	Progressive and lossless compression photo image files are not supported.

**Note**

- The file name is limited to 180 characters.
- Maximum files/Folder: Less than 2000 (total number of files and folders)
- Depending on the size and number of the files, it may take several minutes to read the content on the media.
- The file requirements on page 36 are not always compatible. There may have some restrictions by file features.
- The total playback time of audio file indicated on the screen may not correct for VBR files.
- HD video files contained on the CD/DVD or USB 1.0/1.1 may not play properly. Blu-ray Disc or USB 2.0 are recommended to play back HD video files.
- This player supports H.264/MPEG-4 AVC profile Main, High at Level 4.1. For a file with higher level, the warning message will appear on the screen.
- This player does not support files that are recorded with GMC\*<sup>1</sup> or Qpel\*<sup>2</sup>.

\*1 GMC – Global Motion Compensation

\*2 Qpel – Quarter pixel

**Note**

- A ".avi" file which is encoded "WMV 9 codec" is not supported.
- This player supports UTF-8 files even it contains Unicode subtitle content. This player can not support the pure Unicode subtitle files.
- Depending on the types of file or ways of recording, it may not play back.
- A disc which was recorded by multi-session on normal PC is not supported on this player.
- To playback a video file, video file name and Subtitle file name must be the same.
- If video codec is MPEG2 TS or MPEG2 PS, subtitle does not play back.
- The total playback time of audio file indicated on the screen may not be correct for VBR files.
- Video / Audio codec compatibility may differ depending on video file.

## AVCHD (Advanced Video Codec High Definition)

- This player can playback 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 is capable of compressing images at higher efficiency than that of the conventional image compressing format.
- This player can playback AVCHD discs using "x.v.Color" format.
- Some AVCHD format discs may not play depending on the recording condition.
- AVCHD format discs need to be finalized.
- "x.v.Color" offers a wider color range than normal DVD camcorder discs.

## Certain system requirements

For high definition video playback:

- High definition display that has HDMI input jack.
- BD-ROM disc with high definition content.
- HDMI or HDCP capable DVI input on your display device is required for some content (as specified by disc authors).

For Dolby® Digital Plus, Dolby TrueHD and DTS-HD multi-channel audio playback:

- An amplifier/receiver with a built-in (Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS or DTS-HD) decoder.

Main, center, surround speakers and subwoofer as necessary for chosen format.

## Compatibility notes

- Because BD-ROM is a new format, certain disc, digital connection and other compatibility issues are possible. If you experience compatibility problems, please contact an authorized Customer Service Center.
- This unit allows you to enjoy functions such as picture-in-picture, secondary audio and Virtual packages, etc., with BD-ROM supporting BONUSVIEW (BD-ROM version 2 Profile 1 version 1.1). Secondary video and audio can be played from a disc compatible with the picture-in-picture function. For the playback method, refer to the instructions in the disc.
- Viewing high-definition content and up-converting standard DVD content may require an HDMI-capable input or HDCP-capable DVI input on your display device.
- Some BD-ROM and DVD discs may restrict the use of some operation commands or features.
- Dolby TrueHD, Dolby Digital Plus and DTS-HD are supported with maximum 7.1 channels if you use HDMI connection for the audio output of the unit.
- You can use a USB device to store some disc related information. The disc you are using will control how long this information is retained.

## Audio Output Specifications

Jack/Setting Source	HDMI OUT		
	PCM	DTS Re-encode <sup>*3</sup>	Auto <sup>*1 *2</sup>
Dolby Digital	PCM 2ch	DTS	Dolby Digital
Dolby Digital Plus	PCM 2ch	DTS	Dolby Digital Plus
Dolby TrueHD	PCM 2ch	DTS	Dolby TrueHD
DTS	PCM 2ch	DTS	DTS
DTS-HD	PCM 2ch	DTS	DTS-HD
Linear PCM 2ch	PCM 2ch	DTS 2ch	Linear PCM 2ch
Linear PCM 5.1ch	PCM 5.1ch	DTS	Linear PCM 5.1ch
Linear PCM 7.1ch	PCM 7.1ch	DTS	Linear PCM 7.1ch

\*1 The secondary and interactive audio may not be included in the output bitstream if [Digital Output] option is set to [Auto]. (Except LPCM Codec : the output always include interactive and secondary audio.)

\*2 This player automatically selects the HDMI audio according to the decoding capability of the connected HDMI device even though [Digital Output] option is set to [Auto].

\*3 If the [Digital Output] option is set to [DTS re-encode], the audio output is limited to 48 kHz and 5.1Ch. If the [Digital Output] option is set to [DTS re-encode], the DTS Re-encode audio is outputted for BD-ROM discs, and the original audio is outputted for the other discs (like [Auto]).

- The audio is outputted up to PCM 48 kHz/16 bit for MP3/WMA file and PCM 44.1kHz/16 bit for Audio CD during playback.
- You must select a digital audio output and a maximum sampling frequency that your Amplifier (or AV receiver) accepts using [Digital Output] and [Sampling Freq.] options on the [Settings] menu (page 18).
- With digital audio connection (HDMI OUT), Disc Menu button sounds of BD-ROM may not be heard if the [Digital Output] option is set to [Auto].
- If the audio format of the digital output does not match the capabilities of your receiver, the receiver will produce a strong, distorted sound or no sound at all.
- Multi-channel Digital Surround Sound via digital connection can only be obtained if your receiver is equipped with a Digital Multi-channel decoder.

## Area Code List

Choose an area code from this list.

Area	Code	Area	Code	Area	Code	Area	Code
Afghanistan	AF	Fiji	FJ	Monaco	MC	Singapore	SG
Argentina	AR	Finland	FI	Mongolia	MN	Slovak Republic	SK
Australia	AU	France	FR	Morocco	MA	Slovenia	SI
Austria	AT	Germany	DE	Nepal	NP	South Africa	ZA
Belgium	BE	Great Britain	GB	Netherlands	NL	South Korea	KR
Bhutan	BT	Greece	GR	Antilles	AN	Spain	ES
Bolivia	BO	Greenland	GL	New Zealand	NZ	Sri Lanka	LK
Brazil	BR	Hong Kong	HK	Nigeria	NG	Sweden	SE
Cambodia	KH	Hungary	HU	Norway	NO	Switzerland	CH
Canada	CA	India	IN	Oman	OM	Taiwan	TW
Chile	CL	Indonesia	ID	Pakistan	PK	Thailand	TH
China	CN	Israel	IL	Panama	PA	Turkey	TR
Colombia	CO	Italy	IT	Paraguay	PY	Uganda	UG
Congo	CG	Jamaica	JM	Philippines	PH	Ukraine	UA
Costa Rica	CR	Japan	JP	Poland	PL	United States	US
Croatia	HR	Kenya	KE	Portugal	PT	Uruguay	UY
Czech Republic	CZ	Kuwait	KW	Romania	RO	Uzbekistan	UZ
Denmark	DK	Libya	LY	Russian Federation		Vietnam	VN
Ecuador	EC	Luxembourg	LU		RU	Zimbabwe	ZW
Egypt	EG	Malaysia	MY	Saudi Arabia	SA		
El Salvador	SV	Maldives	MV	Senegal	SN		
Ethiopia	ET	Mexico	MX				

## Language Code List

Use this list to input your desired language for the following initial settings: [Disc Audio], [Disc Subtitle] and [Disc Menu].

Language	Code	Language	Code	Language	Code	Language	Code
Afar	6565	French	7082	Lithuanian	7684	Sindhi	8368
Afrikaans	6570	Frисian	7089	Macedonian	7775	Singhalese	8373
Albanian	8381	Galician	7176	Malagasy	7771	Slovak	8375
Amharic	6577	Georgian	7565	Malay	7783	Slovenian	8376
Arabic	6582	German	6869	Malayalam	7776	Spanish	6983
Armenian	7289	Greek	6976	Maori	7773	Sudanese	8385
Assamese	6583	Greenlandic	7576	Marathi	7782	Swahili	8387
Aymara	6588	Guarani	7178	Moldavian	7779	Swedish	8386
Azerbaijani	6590	Gujarati	7185	Mongolian	7778	Tagalog	8476
Bashkir	6665	Hausa	7265	Nauru	7865	Tajik	8471
Basque	6985	Hebrew	7387	Nepali	7869	Tamil	8465
Bengali; Bangla	6678	Hindi	7273	Norwegian	7879	Telugu	8469
Bhutani	6890	Hungarian	7285	Oriya	7982	Thai	8472
Bihari	6672	Icelandic	7383	Punjabi	8065	Tonga	8479
Breton	6682	Indonesian	7378	Pashto, Pushto	8083	Turkish	8482
Bulgarian	6671	Interlingua	7365	Persian	7065	Turkmen	8475
Burmese	7789	Irish	7165	Polish	8076	Twi	8487
Byelorussian	6669	Italian	7384	Portuguese	8084	Ukrainian	8575
Chinese	9072	Japanese	7465	Quechua	8185	Urdu	8582
Croatian	7282	Kannada	7578	Rhaeto-Romance	8277	Uzbek	8590
Czech	6783	Kashmiri	7583	Rumanian	8279	Vietnamese	8673
Danish	6865	Kazakh	7575	Russian	8285	Volapük	8679
Dutch	7876	Kirghiz	7589	Samoan	8377	Welsh	6789
English	6978	Korean	7579	Sanskrit	8365	Wolof	8779
Esperanto	6979	Kurdish	7585	Scots Gaelic	7168	Xhosa	8872
Estonian	6984	Laotian	7679	Serbian	8382	Yiddish	7473
Faroese	7079	Latin	7665	Serbo-Croatian	8372	Yoruba	8979
Fiji	7074	Latvian, Lettish	7686	Shona	8378	Zulu	9085
Finnish	7073	Lingala	7678				

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## Specifications

General	
AC adapter	<ul style="list-style-type: none"> <li>• Model : WA-12M12FG</li> <li>• Manufacturer: Asian Power Devices Inc.</li> <li>• Input: 100-240 V~, 50-60 Hz 0.5 A Max.</li> <li>• Output: 12 V <math>\frac{1}{2}</math> 1 A</li> </ul>
Networked standby power consumption	0.5 W (If all network ports are activated.)
Dimensions (W x H x D)	Approx. 270 mm x 43 mm x 195 mm
Net Weight (Approx.)	0.83 kg
Operating temperature	5 °C - 35 °C
Operating humidity	5 % - 90 %

Outputs	
HDMI OUT (video/audio)	19 pin (Type A, HDMI™ Connector)

System	
Laser	Semiconductor laser
wavelength	405 nm / 650 nm
Signal system	Standard PAL/NTSC color TV system
Bus Power Supply (USB)	5 V $\frac{1}{2}$ 500 mA

- Design and specifications are subject to change without notice.

# Maintenance

## Handling the unit

### When shipping the unit

Please save the original shipping carton and packing materials. If you need to ship the unit, for maximum protection, re-pack the unit as it was originally packed at the factory.

### Cleaning the unit

To clean the player, use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution. Do not use strong solvents such as alcohol, benzine, or thinner, as these might damage the surface of the unit.

Keeping the exterior surfaces clean

- Do not use volatile liquids such as insecticide spray near the unit.
- Wiping with strong pressure may damage the surface.
- Do not leave rubber or plastic products in contact with the unit for a long period of time.

### Maintaining the unit

The unit is a high-tech, precision device. If the optical pick-up lens and disc drive parts are dirty or worn, the picture quality could be diminished. For details, please contact your nearest authorized service center.

## Notes on discs

### Handling discs

Do not touch the playback side of the disc. Hold the disc by the edges so that fingerprints do not get on the surface. Never stick paper or tape on the disc.

### Storing discs

After playing, store the disc in its case. Do not expose the disc to direct sunlight or sources of heat and never leave it in a parked car exposed to direct sunlight.

### Cleaning discs

Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center to out.

Do not use strong solvents such as alcohol, benzine, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.

