LG
Life's Good

OWNER'S MANUAL

Network 3D Blu-ray Disc™ / DVD Player

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

BP440

www.lg.com

P/NO : MFL68142801_1.0

Safety Information



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.

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

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.



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 centre. 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 centre. 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.

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.

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.

- The appliance is not intended for use by young children or infirm persons without supervision.
- Young Children should be supervised to ensure that they do not play with appliance.
- If the appliance is supplied from a cord extension set or an electrical portable outlet device, the cord extension set on electrical portable outlet device must be positioned so that it is not subject to splashing or ingress of moisture.

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, analogue 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 Centre.
- 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 colour system

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

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

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

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

⚠ Caution

- Watching a 3D content for a long period time may cause dizziness or tiredness.
- It is not recommended to watch a movie in 3D mode for infirm, child and pregnant woman.
- If you are experiencing headache, tiredness or dizziness while viewing contents in 3D, it is strongly recommended to stop the playback and rest until you feel normal.

Table of Contents

1 Getting Started

3 Safety Information
8 Introduction
8 – Playable Discs and symbols used in this manual
9 – About the "⊘" Symbol Display
9 – Regional Code
9 – System Select
10 Remote Control
11 Front Panel
11 Rear Panel

2 Connecting

12 Connecting to Your TV
13 – What is SIMPLINK?
13 – Resolution Setting
14 Connecting to an Amplifier
15 – Connecting to an Amplifier via HDMI Output
15 – Connecting to an Amplifier via Digital Audio Output
16 Connecting to your Home Network
16 – Wired network connection
16 – Wired Network Setup

3 System Setting

19 Initial Setup
20 Settings
20 – Adjust the Setup Settings
20 – [NETWORK] Menu
21 – [DISPLAY] Menu
23 – [LANGUAGE] Menu
23 – [AUDIO] Menu
25 – [LOCK] Menu
26 – [OTHERS] Menu

4 Operating

28 Home Menu Display
28 – Using [HOME] menu
28 – Using the SmartShare
29 Playing the Linked Devices
29 – Playing a Disc
29 – Playing Blu-ray 3D disc
30 – Playing a file on disc/USB device
31 – Playing a file on Android device
32 – Playing a file on a network server
33 Using Home Network Server for PC
33 – About SmartShare PC Software (DLNA)
33 – Downloading SmartShare PC Software (DLNA)
33 – Installing SmartShare PC Software (DLNA)
34 – Sharing files and folders
34 – System requirements
35 General Playback
35 – Basic operations for video and audio content
35 – Basic operations for photo content
35 – Using the disc menu
36 – Resume playback
36 – Last Scene Memory
37 On-Screen Display
37 – To control video playback
38 – To control photo view
39 Advanced Playback
39 – Repeat playback
39 – Repeating a specific portion
39 – Playing from selected time
40 – Selecting a subtitle language
40 – Hearing a different audio
40 – Watching from a different angle
40 – Changing the TV Aspect Ratio
41 – Changing subtitle Code Page
41 – Changing the Picture Mode
42 – Viewing content information
42 – Changing content list view
42 – Selecting a subtitle file
43 – Listening to music during slide show
43 – Playing file encoded in 3D
44 Advanced Features
44 – Enjoying BD-Live™

44 – LG AV Remote
44 – Private Sound Mode
45 Audio CD recording
46 Using the Premium
46 Using the LG Smart World
47 – Signing in
47 – Searching online content
48 Using the My Apps Menu

5 Troubleshooting

49 Troubleshooting
49 – General
50 – Network
51 – Picture
51 – Customer support
51 – Open source software notice

6 Appendix

52 Controlling a TV with the Supplied Remote Control
52 – Setting up the remote to control your TV
53 Network Software Update
53 – Network update notification
53 – Software update
55 Additional Information
55 – File requirement
56 – AVCHD (Advanced Video Codec High Definition)
57 – About DLNA
57 – Certain system requirements
57 – Compatibility notes
58 Audio Output Specifications
60 Area Code List
61 Language Code List
62 Trademarks and Licenses
64 Specifications
65 Maintenance
65 – Handling the Unit
65 – Notes on Discs
66 Important Information Relating to Network Services

Some of the content 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		BD	• Discs such as movies that can be purchased or rented. • "Blu-ray 3D" discs and "Blu-ray 3D ONLY" discs. • BD-R/RE discs that are recorded in BDAV format.
		MOVIE MUSIC PHOTO	• BD-R/RE discs that contain Movie, Music or Photo files. • ISO 9660+JOLIET, UDF and UDF Bridge format
DVD-ROM DVD-R DVD-RW DVD+R DVD+RW		DVD	• Discs such as movies that can be purchased or rented. • Movie mode and finalized only • Supports the dual layer disc also
		AVCHD	Finalized AVCHD format
		MOVIE MUSIC PHOTO	• DVD±R/RW discs that contain Movie, Music or Photo files. • ISO 9660+JOLIET, UDF and UDF Bridge format
DVD-RW (VR)		DVD	VR mode and finalized only
Audio CD		ACD	Audio CD
CD-R/RW		MOVIE MUSIC PHOTO	• CD-R/RW discs that contain Movie, Music or Photo files. • ISO 9660+JOLIET, UDF and UDF Bridge format
Note	–		Indicates special notes and operating features.
Caution	–		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 "⊘" Symbol Display

"⊘" 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.

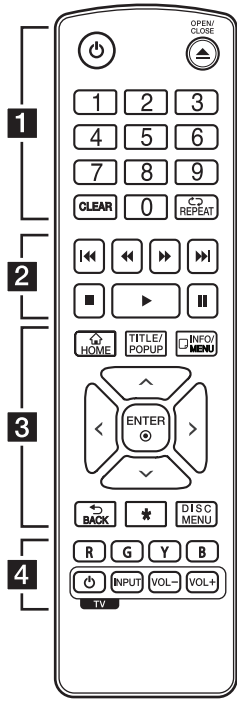
Regional Code

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

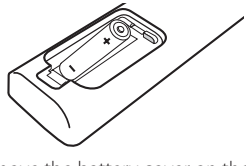
System Select

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

Remote Control



Battery Installation



Remove the battery cover on the rear of the remote control, and insert a 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.

CLEAR: Removes a number when setting the password or network connection.

REPEAT (↻): Repeats a desired section or sequence.

2

◀◀ / ▶▶ (SCAN): Searches backward or forward.

⏮ / ⏭ (SKIP): Goes to the next or previous chapter / track / file.

■ **(STOP):** Stops playback.

▶ **(PLAY):** Starts playback.

❚❚ **(PAUSE):** Pauses playback.

3

HOME (⌂): Displays or exits the [Home].

TITLE/POPUP: Displays the DVD title menu or BD-ROM's pop-up menu, if available.

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.

✱: This button is not available.

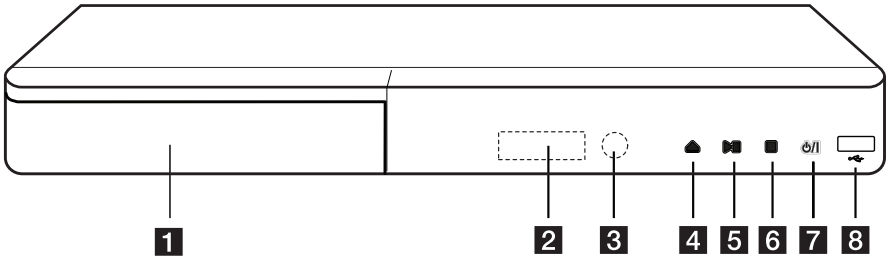
DISC MENU: Accesses menu on a disc.

4

Coloured (R, G, Y, B) buttons: Use to navigate BD-ROM menus. They are also used as shortcut buttons for specific menus.

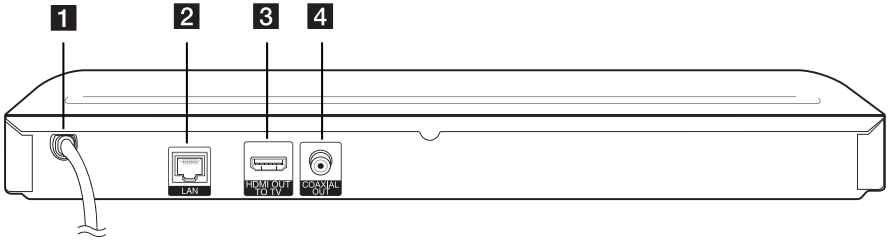
TV Control Buttons: See page 52.

Front Panel



1 Disc Tray
2 Display Window
3 Remote Sensor
4 ⏏ (OPEN / CLOSE)
5 ▶II (PLAY / PAUSE)
6 ■ (STOP)
7 ⏻ / | (POWER)
8 USB Port

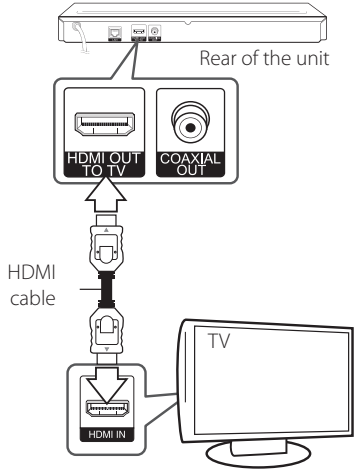
Rear Panel



1 AC power cord
2 LAN port
3 HDMI OUT
4 DIGITAL AUDIO OUT (COAXIAL)

Connecting to Your TV

If you have a HDMI TV or monitor, you can connect it to this player using a HDMI cable (Type A, High Speed HDMI™ Cable). Connect the HDMI jack on the player to the HDMI jack on a 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 a 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 (see page 22).
- 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).

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.

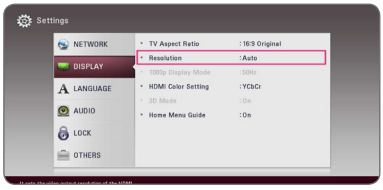
Note

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

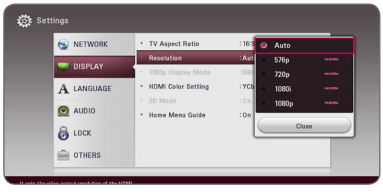
Resolution Setting

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

1. Press HOME (⌂).
2. Use < / > to select the [Settings] and press ENTER (⊙). The [Settings] menu appears.
3. Use Λ / V to select [DISPLAY] option then press > to move to the second level.
4. Use Λ / V to select the [Resolution] option then press ENTER (⊙) to move to the third level.



5. Use Λ / V to select the desired resolution then press 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

Make one of the following connections, depending on the capabilities of your existing equipment.

- HDMI Audio connection (page 15)
- Digital Audio connection (page 15)

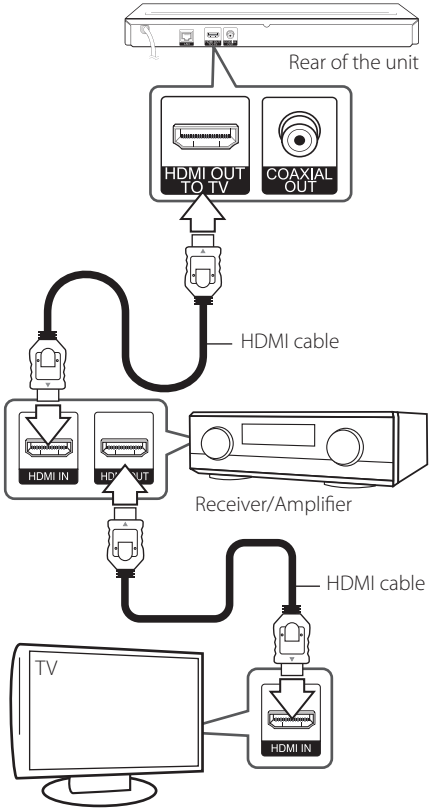
Since many factors affect the type of audio output, see "Audio Output Specifications" for details (page 58).

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 in jack on your amplifier using a HDMI cable.

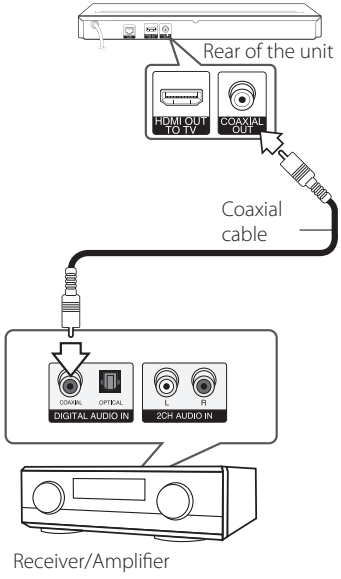


Connect the amplifier's HDMI output jack to HDMI input jack on your TV using a HDMI cable if your amplifier has HDMI output jack. (Refer to amplifier's owner's manual)

You will need to activate the player's digital output. (See "[AUDIO] Menu" on page 23)

Connecting to an Amplifier via Digital Audio Output

Connect the player's COAXIAL OUT jack to the corresponding in jack on your amplifier using an optional digital audio cable.



You will need to activate the player's digital output. (See "[AUDIO] Menu" on page 23.)

Connecting to your Home Network

This player can be connected to a local area network (LAN) via the LAN port on the rear panel. By connecting the unit to a broadband home network, you have access to services such as software updates, BD-Live interactivity and on-line content services.

Wired network connection

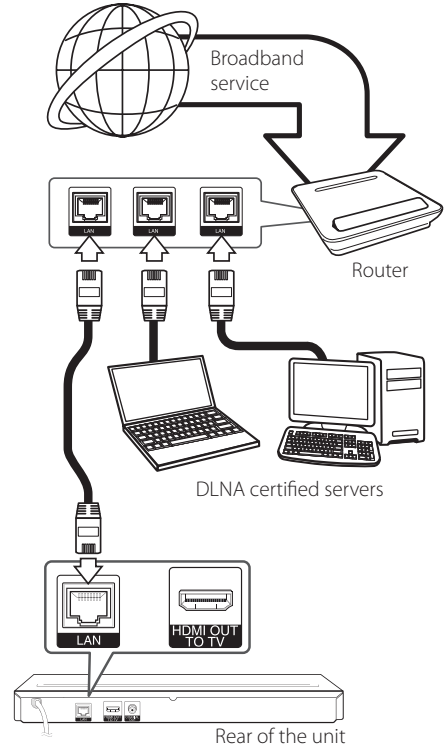
Using a wired network provides the best performance, because the attached devices connect directly to the network and are not subject to radio frequency interference.

Please refer to the documentation for your network device for further instructions.

Connect the player's LAN port to the corresponding port on your Modem or Router using a commercially available LAN or Ethernet cable.

Note

- When plugging or unplugging the LAN cable, hold the plug portion of the cable. When unplugging, do not pull on the LAN cable but unplug while pressing down on the lock.
- Do not connect a modular phone cable to the LAN port.
- Since there are various connection configurations, please follow the specifications of your telecommunication carrier or internet service provider.
- If you want to access content from DLNA servers, this player must be connected to the same local area network with them via a router.
- To set your PC as a DLNA server, install the SmartShare PC Software on your PC. (page 33)



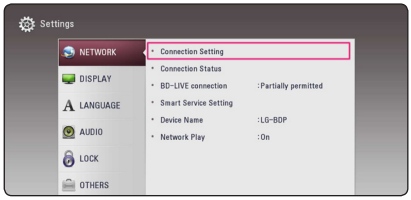
Wired Network Setup

If there is a DHCP server on the local area network (LAN) via wired connection, this player will automatically be allocated an IP address. After making the physical connection, a small number of home networks may require the player's network setting to be adjusted. Adjust the [NETWORK] setting as follow.

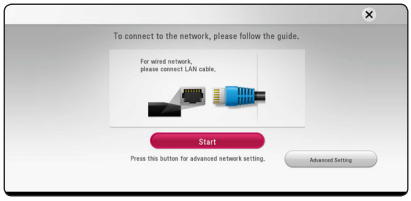
Preparation

Before setting the wired network, you need to connect the broadband internet to your home network.

1. Select [Connection Setting] option in the [Settings] menu then press ENTER (⊙).



2. Read the preparations for the network settings and then press ENTER (⊙) while [Start] is highlighted.



Network will automatically be connected to the unit.

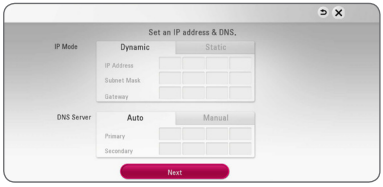


Advanced Setting

If you want to set the network settings manually, use Λ / V to select [Advanced Setting] on the [Network Setting] menu and press ENTER (⊙).

1. Use Λ / V / < / > to select the IP mode between [Dynamic] and [Static].

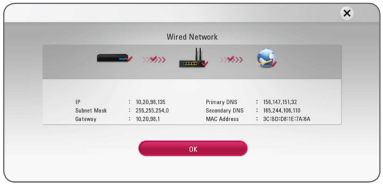
   Normally, select [Dynamic] to allocate an IP address automatically.



Note

If there is no DHCP server on the network and you want to set the IP address manually, select [Static] then set [IP Address], [Subnet Mask], [Gateway] and [DNS Server] using Λ / V / < / > and numerical buttons. If you make a mistake while entering a number, press CLEAR to clear the highlighted part.

2. Select [Next] and press ENTER (⊙) to apply network settings.



Network connection status is displayed on the screen.

3. Press ENTER (⊙) while [OK] is highlighted to finish the wired network settings.

Notes on Network Connection

- Many network connection problems during set up can often be fixed by re-setting the router or modem. After connecting the player to the home network, quickly power off and/or disconnect the power cable of the home network router or cable modem. Then power on and/or connect the power cable again.
- Depending on the internet service provider (ISP), the number of devices that can receive internet service may be limited by the applicable terms of service. For details, contact your ISP.
- Our company is not responsible for any malfunction of the player and/or the internet connection feature due to communication errors/malfunctions associated with your broadband internet connection, or other connected equipment.
- The features of BD-ROM discs made available through the Internet Connection feature are not created or provided by our company, and our company is not responsible for their functionality or continued availability. Some disc related material available by the Internet Connection may not be compatible with this player. If you have questions about such content, please contact the producer of the disc.
- Some internet contents may require a higher bandwidth connection.
- Even if the player is properly connected and configured, some internet contents may not operate properly because of internet congestion, the quality or bandwidth of your internet service, or problems at the provider of the content.
- Some internet connection operations may not be possible due to certain restrictions set by the Internet service provider (ISP) supplying your broadband Internet connection.
- Any fees charged by an ISP including, without limitation, connection charges are your responsibility.
- A 10 Base-T or 100 Base-TX LAN port is required for wired connection to this player. If your internet service does not allow for such a connection, you will not be able to connect the player.
- You must use a Router to use xDSL service.
- A DSL modem is required to use DSL service and a cable modem is required to use cable modem service. Depending on the access method of and subscriber agreement with your ISP, you may not be able to use the internet connection feature contained in this player or you may be limited to the number of devices you can connect at the same time. (If your ISP limits subscription to one device, this player may not be allowed to connect when a PC is already connected.)
- The use of a "Router" may not be allowed or its usage may be limited depending on the policies and restrictions of your ISP. For details, contact your ISP directly.

Initial Setup

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

1. Press ⏻ (POWER).

   The initial setup wizard appears on the screen.

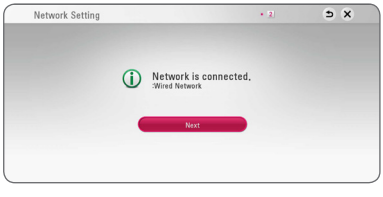
2. Use ∧/∨/</> to select a display language and press ENTER (⊙).



3. Read and prepare the preparations for the network settings and then press ENTER (⊙) while [Start] is highlighted.

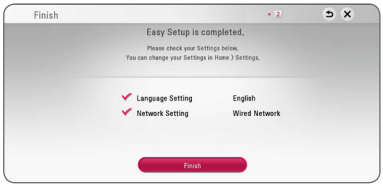


If wired network is connected, the network connection setting will automatically be finished.



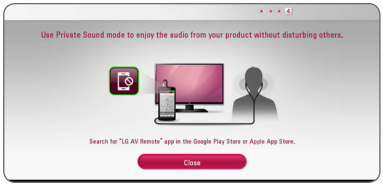
For details on network settings, refer to “Connecting to your Home Network” on page 16.

4. Check all the settings that you have set in the previous steps.



Press ENTER (⊙) while [Finish] is highlighted to finish the initial setup settings. If there is any settings to be changed, use ∧/∨/</> to select ⮌ and press ENTER (⊙).

5. Displays private sound mode guide. Press ENTER (⊙).



Settings

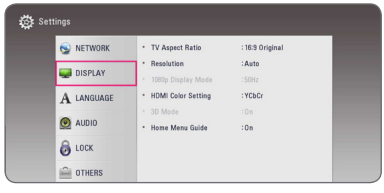
Adjust the Setup Settings

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

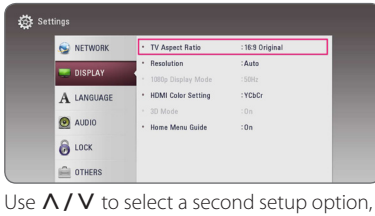
1. Press HOME (⌂).



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.

[NETWORK] Menu

The [NETWORK] settings are needed to use the software update, BD-Live and on-line content services.

Connection Setting

If your home network environment is ready to connect the player, the player needs to be set the wired network connection for network communication. (See "Connecting to your Home Network" on page 16.)

Connection Status

If you want to check tshe network status on this player, select the [Connection Status] options and press ENTER (⊙) to check whether a connection to the network and the internet have been established.

BD-LIVE connection

You can restrict Internet access when BD-Live functions are used.

[Permitted]

Internet access is permitted for all BD-Live contents.

[Partially permitted]

Internet access is permitted only for BD-Live contents which have content owner certificates. Internet access and AACS Online functions are prohibited for all BD-Live contents without a certificate.

[Prohibited]

Internet access is prohibited for all BD-Live contents.

Smart Service Setting

[Country Setting]

Select your area for displaying proper online content service.

[Initialize]

Depending on the region, [Initialize] function may not be available.

Device Name

You can make a network name using virtual keyboard. This player will be recognised by the name you are entering on your home network.

Network Play

This function allows you to control the playback of media streamed from DLNA media server by a DLNA certified smartphone. Most DLNA certified smartphone has a function to control the playback media on your home network. Set this option to [On] for allowing your smartphone to control this unit. Refer to instructions of your DLNA certified smartphone or the application for more detailed information.

Note

- This unit and the DLNA Certified Smartphone must be connected to the same network.
- To use the [Network Play] function using a DLNA certified smartphone, press HOME (⌂) to display the home menu before connecting to this unit.
- While controlling the unit using the [Network Play] function, the remote control may not work.
- Available file formats described on page 55 are not always supported on [Network Play] function.

[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 a 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 a HDMI display device.

[RGB]

Select when connecting to a DVI display device.

3D Mode

Select the type of output mode for Blu-ray 3D disc playback. (This function is activated only when 3D TV is connected.)

[On]

Blu-ray 3D disc playback will output as 3D mode.

[Off]

Blu-ray 3D disc playback will output as 2D mode like a normal BD-ROM disc playback.

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 61.

[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 58 for details.

Digital Output

[Auto]

Select if you connect this unit's DIGITAL AUDIO OUT and 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 or DIGITAL AUDIO OUT jack to a device with two channel digital stereo decoder.

[DTS Re-Encode]

Select if you connect this unit's HDMI OUT or DIGITAL AUDIO 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 BD-ROM 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 CLEAR. Then input the correct password.

DVD Rating

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

[Rating 1-8]

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

[Unlock]

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

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 60.

[OTHERS] Menu

DivX® VOD

ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified® device that has passed rigorous testing to verify that it plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX videos.

ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.

[Register]

Displays the registration code of your player.

[Deregister]

Deactivate your player and display the deactivation code.

Note

All the downloaded videos from DivX(R) VOD with this player's registration code can only be played on this unit.

Quick Start

This player can stay in standby mode with low power consumption, so that the player can instantly boot without delay when you turn on this unit. Set this option to [On] for activating [Quick Start] function.

Note

- If [Quick Start] option is set to [On] and an AC power is accidently re-connected to the player by power failure etc., the player automatically boots itself to be the standby status. Before operating the player, wait for a while until the player is in standby status.
- When [Quick Start] is set to [On], power consumption will be higher than when [Quick Start] is set to [Off].

Auto Power Off

The screen saver appears when you leave the player in Stop mode for about 5 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 BD-Live 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 all the activation for the on-line services and network settings again.

Software

[Information]

Displays the current software version.

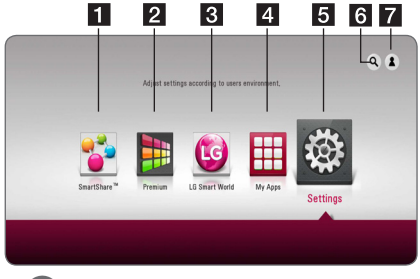
[Update]

You can update the software by connecting the unit directly to the software update server (see page 53).

Home Menu Display

Using [HOME] menu

The home menu appears when you press HOME (⌂). Use ∧ / ∨ / < / > to select a category and press ENTER (⊙).



Note

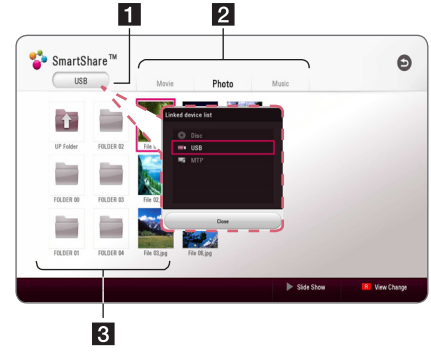
Depending on the region, the [LG Smart World], [My Apps], [🔍] and [👤] may not be available.

1	**[SmartShare] -** Displays SmartShare menu.
2	**[Premium] -** Displays the Premium home screen. (page 46)
3	**[LG Smart World] -** Displays LG Apps titles provided to the unit. (page 46)
4	**[My Apps] -** Displays the [My Apps] screen. (page 48)
5	**[Settings] -** Adjusts the system settings.
6	**[🔍] -** Searches for desired LG Apps and other content.
7	**[👤] -** Displays login menu.

Using the SmartShare

You can play video, photo and audio content on the unit by inserting a disc, connecting an USB device and Android device (MTP) or using home network (DLNA).

1. Press HOME (⌂) to display the home menu.
2. Select [SmartShare] and press ENTER (⊙).



1	Displays all linked devices.
2	Displays video, photo or audio content.
3	Displays the file or folder on linked device.

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 (⌂) and then select [SmartShare].
4. 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 Blu-ray 3D disc

BD

This player can play the Blu-ray 3D discs which contains separate views for the left and right eyes.

Preparation

In order to playback Blu-ray 3D title in stereoscopic 3D mode, you need to:

- Check your TV is 3D capable and has HDMI input(s).
- Wear 3D glasses to enjoy the 3D experience if it is necessary.
- Check whether the BD-ROM title is the Blu-ray 3D disc or not.
- Connect an HDMI cable (Type A, High Speed HDMI™ Cable) between the player's HDMI output and TV's HDMI input.

1. Press HOME (⌂), and set the [3D Mode] option on the [Settings] menu to [On] (page 22).
2. Press ⏏ (OPEN/CLOSE), and place a disc on the disc tray.
3. Press ⏏ (OPEN/CLOSE) to close the disc tray.

   The playback starts automatically.
4. Refer to the owner's manual of your 3D-ready TV for the further instruction.

   You may need to adjust the display settings and focus on your TV's setting for the improved 3D effect.

Caution

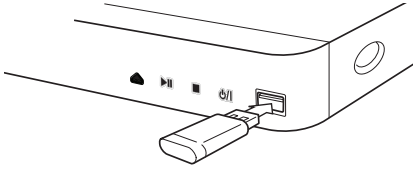
- Watching a 3D content for a long period time may cause dizziness or tiredness.
- It is not recommended to watch a movie in 3D mode for infirm, child and pregnant woman.
- If you are experiencing headache, tiredness or dizziness while viewing contents in 3D, it is strongly recommended to stop the playback and rest until you feel normal.

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.

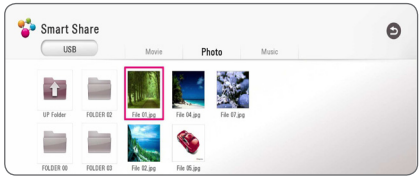
1. Insert a data disc on the tray or connect an USB device.



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.

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 (⌂).
3. Select [SmartShare] and press ENTER (⊙).



4. Select the desired linked device in the category.
5. Select [Movie], [Photo] or [Music].
6. Select a file using Λ / V / < / >, and press ▶(PLAY) or ENTER (⊙) to play the file.

Notes on USB device

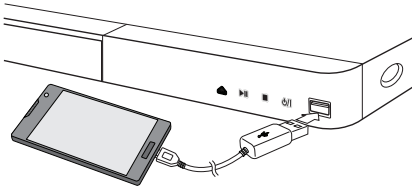
- This player supports USB flash drive/external HDD formatted in FAT32 and NTFS when accessing files (music, photo, movie). However, for BD-Live, use the USB flash drive / external HDD formatted in FAT32.
- This unit can support up to 4 partitions of the USB device.
- Do not extract the USB device during operation (play, etc.).
- An 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 an 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

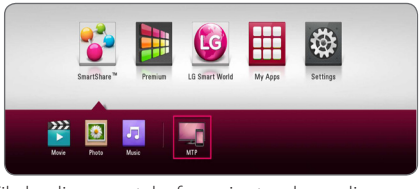
MOVIE MUSIC PHOTO

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.

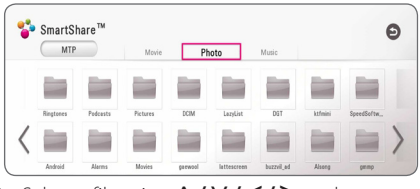


2. Press HOME (⌂).
3. Select [MTP] and press ENTER (⊙).

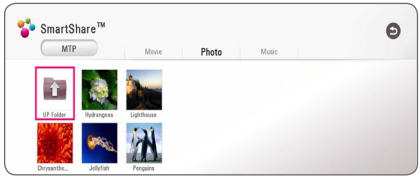


File loading may take few minutes depending on the number of content stored in Android device.

4. Select [Movie], [Photo] or [Music].



5. Select a file using Λ / V / < / >, and press ►(PLAY) or ENTER (⊙) to play the file.



Notes on Connecting Android device

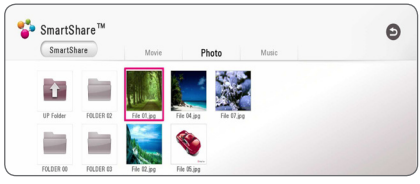
- This unit can support only MTP (Media Transfer Protocol) Android devices.
- Do not extract Android device during operation (play, etc.).
- Video, audio and photo files can be played. For details of operations on each file, refer to relevant pages.
- Regular back up is recommended to prevent data loss.
- If you use an USB extension cable, USB HUB or USB Multi-reader, Android device may not be recognized.
- Some Android device 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.

Playing a file on a network server

MOVIE MUSIC PHOTO

This player can play video, audio and photo files located in a DLNA server through your home network.

1. Check the network connection and settings (page 16).
2. Press HOME (⌂).
3. Select [SmartShare] and press ENTER (⊙).



4. Select a DLNA media server in the category.
5. Select [Movie], [Photo] or [Music].
6. Select a file using Λ / V / < / >, and press ▶(PLAY) or ENTER (⊙) to play the file.

Note

- The file requirements are described on page 55.
- The thumbnail of the unplayable files can be displayed, but those cannot be played on this player.
- The subtitle file name and video file name have to be the same and located at the same folder.
- The playback and operating quality may be affected by your home network condition.
- You may experience connection problems depending on your server's environment.
- To set your PC as a DLNA server, install the SmartShare PC Software on your PC. (page 33)

Using Home Network Server for PC

DLNA stands for Digital Living Network Alliance, which allows users to access video, photo and audio files stored in server and enjoy them on TV via home networking.

Before connecting to PC to play a file, SmartShare PC Software (DLNA) should be installed on your PC.

About SmartShare PC Software (DLNA)

SmartShare PC Software (DLNA) is for sharing video, audio and photo files stored on your computer to this unit as a DLNA-compatible digital media server.

Downloading SmartShare PC Software (DLNA)

1. Start up your computer, visit http://www.lg.com. If necessary, select your region.
2. Click support tab.
3. Fill your model name on the cover of owner's manual in search bar.
4. Find and download the "SmartShare PC Software (DLNA)" file.

Installing SmartShare PC Software (DLNA)

1. Before installation, close all running programs including firewall and Anti-Virus programs.
2. Unzip and double-click "Setup.exe" to install SmartShare PC Software (DLNA). The installation is prepared and the installation wizard appears.
3. Follow the directions of the installation wizard displayed on the screen.
4. Click the [Exit] button to complete the installation.

Note

- SmartShare PC Software is not supported with Mac OS.
- The SmartShare PC Software (DLNA) is a customized software edition only for sharing files and folders to this player.
- This manual explains operations with the English version of SmartShare PC Software (DLNA) as examples. Follow the explanation referring to the actual operations of your language version.

Sharing files and folders

On your computer, you must share the folder containing video, audio and/or photo content to play them on this player.

This part explains the procedure for selectingthe shared folders on your computer.

1. Double-click the "SmartShare" icon.
2. Click [Movie], [Photo] or [Music] icon on the centre, and then click [Settings] on the top right corner of the SmartShare PC Software. The [Settings] menu appears on the screen.
3. Click [My Shared Contents] tab, and then click icon. The [Add/Remove Shared Folders] menu appears on the screen.
4. Click the folder containing the files you want to share and then click the [OK]. The checked folder is added to the [My Shared Contents] and then click the [OK] at the bottom of the [Settings] menu.
5. Make sure that the SmartShare (DLNA) service turns on at the [Service] tab.

Note

- If the shared folders or files are not displayed on the player, click the [My Shared Contents] on the [Settings] menu, and then click icon.
- For more information, click [HELP] on the [Settings] menu.

System requirements

Minimum System

- CPU : Intel® 2.0 GHz or AMD Sempron™ 2000+ processors
- Memory : 1 GB of free RAM
- Graphics card : 64 MB video memory, minimum resolution of 1024 x 768 pixels, and 16 bit colour settings
- Free Disk Space : 200 MB
- Windows® XP (Service Pack 2 or higher), Windows Vista®, Windows® 7, Windows® 8.0, Windows® 8.1
- Windows® Media Player® 11.0 or higher
- Network environment: 100 Mb Ethernet, WLAN

Recommended System

- CPU : Intel® Core™ Duo or AMD Athlon™ 64X2, 1.7 GHz or better
- Memory : 2 GB of free RAM
- Graphics card : 128 MB video memory, minimum resolution of 1024 x 768 pixels, and 16 bit colour settings
- Free Disk Space : 200 MB
- Windows® XP (Service Pack 2 or higher), Windows Vista®, Windows® 7, Windows® 8.0, Windows® 8.1
- Windows® Media Player® 11.0 or higher
- Network environment: 100 Mb Ethernet, WLAN

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 video 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.

In the file list menu of a server, there may have many types of content in a folder together. In this case, press ⏮ or ⏭ to go to the previous or next content with same type.

Basic operations for photo content

To play a slide show

Press ▶ (PLAY) to start slide show.

To stop a slide show

Press ■ (STOP) while slide show.

To pause a slide show

Press ❚❚ (PAUSE) while 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 Λ / V / < / > 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/POPUP during playback, and use Λ / V / < / > 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 "II■ (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

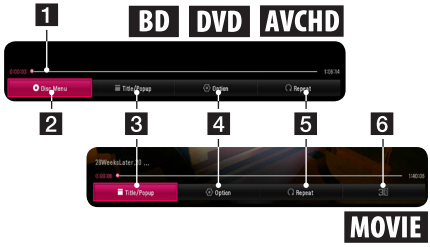
You can display and adjust various information and settings about the content.

To control video playback

BD DVD AVCHD MOVIE

You can control playback and set options while watching videos.

During playback, press INFO/MENU (▢).

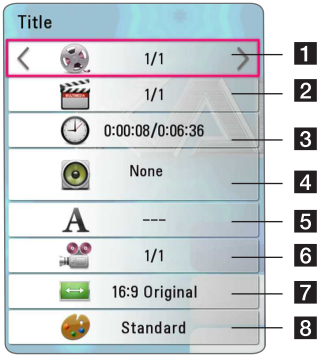


1	**Progress bar -** Displays the current position and total playing time.
2	**[Disc Menu] -** Accesses menu on a disc.
3	**[Title/Popup] -** Displays the DVD title menu or BD-ROM's pop-up menu, if available.
4	**[Option] -** Displays playback information.
5	**[Repeat] -** Repeats a desired section or sequence. (page 39)
6	**[3D] -** Adjusts the 3D setting. (page 43)

Displaying content information on-screen

BD DVD AVCHD MOVIE

1. During playback, press INFO/MENU (▢).
2. Select an [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 43).

3 **[Option] -** Displays slide show options.

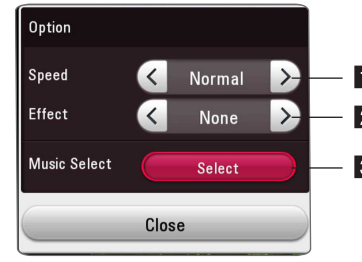
4 **[Rotate] -** Rotates the photo clockwise.

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 an [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 43).

Advanced Playback

Repeat playback

BD DVD AVCHD ACD MUSIC MOVIE

Blu-ray Disc / DVD / Video files

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

A-B – Selected portion will be repeated continually.

Chapter – The current chapter will be played back repeatedly.

Title – The current title will be played back repeatedly.

All – All the titles or files will be played back repeatedly.

Off – Returns to normal playback.

To return to normal playback, press CLEAR.

Audio CDs/Audio files

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

A-B – Selected portion will be repeated continually. (Audio CD only)

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

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

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

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

To return to normal playback, press CLEAR.

Note

This function may not work on some disc or title.

Repeating a specific portion

BD DVD AVCHD ACD MOVIE

This player can repeat a portion you have selected.

1. During playback, press REPEAT (↻).
2. Select [A-B] 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.
5. To return to normal playback, press CLEAR.

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 an [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.
- This function may not work depending on the file type and ability of the DLNA server.

Selecting a subtitle language

BD DVD AVCHD MOVIE

1. During playback, press INFO/MENU (☐).
2. Select an [Option] using </>, and press ENTER (⊙)
3. Use ∧ / ∨ to select the [Subtitle] option.
4. Use </> 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/POPUP 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 an [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/POPUP 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 an [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 an [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

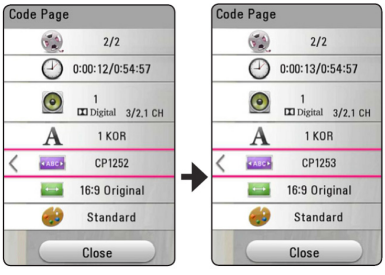
Even if you change the value of the [TV Aspect Ratio] option in On-Screen display, the [TV Aspect Ratio] option in the [Settings] menu is not changed.

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 an [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

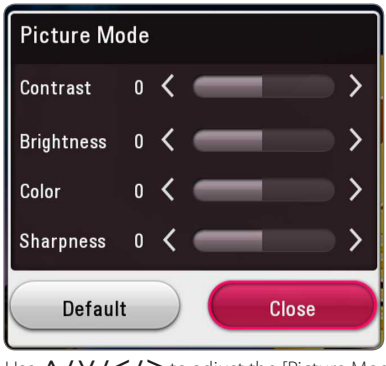
BD DVD AVCHD MOVIE

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

1. During playback, press INFO/MENU (☐).
2. Select an [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 an [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 Λ / V / < / >.
2. Press INFO/MENU (▢) to display the option menu.

   The file information appears on the screen.

During video playback, you can display the file information by pressing TITLE/POPUP.

Note

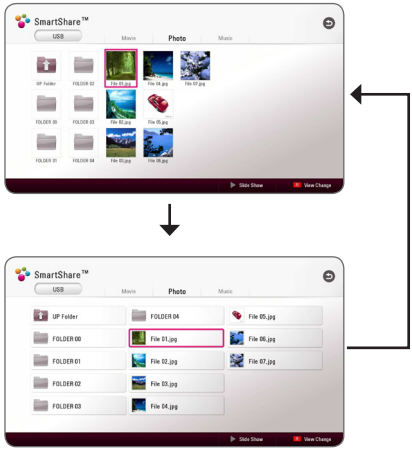
The information displayed on the screen may not correct comparing actual content information.

Changing content list view

MOVIE MUSIC PHOTO

On the [SmartShare] menu, you can change the content list view.

Press red (R) coloured button repeatedly.

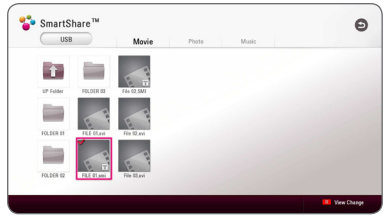


Selecting a subtitle file

MOVIE

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

1. Use Λ / V / < / > 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.
- This function is not available for playing file on a server via home network.

Listening to music during slide show

PHOTO

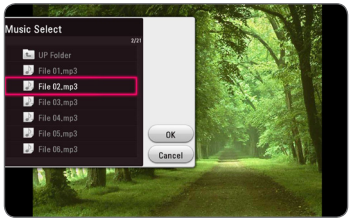
You can display photo files while listening to audio files.

1. While viewing a photo in full screen, press INFO/MENU (□) to display the option menu.
2. Select an [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
DLNA server	DLNA server

5. Use ∧/∨ to select a file or a folder you wish to play.



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

Note

When selecting audio file from a server, folder selection is not available. Only file selection is available.

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

Playing file encoded in 3D

MOVIE

This function allows you to play 3D content in case of file encoded in 3D.

1. During playback, press INFO/MENU (□).
2. Select [3D] using </>, and press ENTER (⦿).
3. Select suitable mode (side by side, top and bottom) which is same way as file encoded in 3D.

Note

If the subtitle is displayed abnormally, set the TV's 3D option to off and the unit's 3D option to on.

Advanced Features

Enjoying BD-Live™

BD

BD-ROM supporting BD-Live that has a network extension function allows you to enjoy more functions such as downloading new movie trailers by connecting this unit to the internet.

1. Check the network connection and settings (page 16).
2. Insert an USB storage device to the USB port on the front panel.

   An USB storage device is needed to download bonus content.
3. Press HOME (⌂), and set the [BD-LIVE connection] option on the [Settings] menu (page 20).

   Depending on a disc, the BD-Live function may not be operated if [BD-LIVE connection] option is set to [Partially Permitted].
4. Insert a BD-ROM with BD-Live.

   The operations may differ depending on the disc. Refer to the manual supplied with the disc.

Caution

Do not extract the connected USB device while content is being downloaded or a Blu-ray disc is still in the disc tray. Doing so may damage the connected USB device and BD-Live features may not operate properly with the damaged USB device anymore. If the connected USB device seems damaged from such an action, you can format the connected USB device from the PC and reuse it with this player.

Note

- Some BD-Live content may be restrictively accessed in some territories by content provider's own decision.
- It may take up to several minutes to load and start enjoying BD-Live content.
- For BD-Live, use the USB flash drive / external HDD formatted in FAT32 only.

LG AV Remote

You can control this player with your iPhone or Android phone via your home network. This player and your phone must be connected to your wireless network device such as access point. Visit "Apple iTunes" or "Google Android Market (Google Play Store)" for detailed information of "LG AV Remote".

Private Sound Mode

By downloading "LG AV Remote" application on your smart phone or tablet, you can connect your headsets, and enjoy the sound from your player on your smart devices.

This feature transmits video signal to TV through HDMI and Audio signal to smart phone or tablet through Wi-Fi. For more detailed information, please refer to "LG AV Remote" application.

Audio CD recording

You can record one desired track or all of the tracks in Audio CD to an USB storage device.

1. Insert an USB storage device to the USB port on the front panel.
2. Insert an Audio CD into the player.
   The playback starts automatically.
3. Press red (R) coloured button to start [CD Recording].

	Stop mode	During playback
Recording track	All of the tracks	playing track
Recording time	4X speed	1X speed

Note

- For audio CD recording, use the USB flash drive / external HDD formatted in FAT32 only.
- Audio track is recorded to an audio file with 192 kbps.
- Recording times in the table above are approximate.
- Actual recording time for USB storage device varies depending on the USB storage device's ability.
- Make sure that there is minimum of 50 MB free space is needed when recording into the USB storage device.
- The length of the audio should be longer than 20 seconds for the proper recording.
- Do not turn off this player or extract the connected USB storage device during Audio CD recording.

Caution

The recording or copying features on this player are provided for your personal and non-commercial use. The making of unauthorized copies of copy-protected material, including computer programs, files, broadcasts and sound recordings, may be an infringement of copyrights and constitute a criminal offense. This equipment should not be used for such purposes. LG expressly disclaims any responsibility for illegal distribution or use of unauthorized content in commercial purpose.

Be Responsible

Respect Copyrights

Using the Premium

You can use various content services via Internet with the Premium feature.

1. Check the network connection and settings (page 16).
2. Press HOME (⌂).
3. Select the [Premium] using </>, and press ENTER (⊙).



4. Select an online service using ∧/∨/</>, and press ENTER (⊙).

Note

- For detailed information of each service, contact to the content provider or visit support link of the service.
- The content of Premium services and service related information, including user interface, is subject to changes. Please refer to the web site of each service for most up-to-date information.
- For the first time to access [Premium] or [LG Smart World] feature, current country setting appears.
- If you want to change the country setting, go to [Settings] > [NETWORK] > [Smart Service Setting] > [Country Setting]. Select [Manual] and press ENTER (⊙) on [Country Setting] menu.

Using the LG Smart World

You can use the LG application services on this player via Internet. You can easily find and download various applications from LG Smart World.

1. Check the network connection and settings (page 16).
2. Press HOME (⌂).
3. Select the [LG Smart World], and press ENTER (⊙).



4. Select a category using </>, and press ENTER (⊙).
5. Use ∧/∨/</> to select an application, and press ENTER (⊙) to display the information.
6. Press ENTER (⊙) while [Install] icon is highlighted. The application will be installed to the player.

   To install an application to the player, user needs to sign in. Refer to page 47 for more information of signning in.
7. Press yellow (Y) coloured button to display the [My Apps] screen.
8. Select the installed application and press ENTER (⊙) to excute it.

Note

- Depending on the region, the [LG Smart World], [My Apps], [🔍] and [👤] may not be available.
- To install a paid application, you need to be a paid member. Visit www.lgappstv.com for more information.

Signing in

To use the [LG Smart World] feature, you need to sign in with your account.

1. On the [LG Smart World] or [My Apps] screen, press red (R) coloured button.
2. Fill the [ID] and [Password] field using the virtual keyboard.

   If you do not have an account, press red (R) coloured button to register.
3. Use Λ / V / < / > to select [OK], and press ENTER (⊙) to sign in with your account.

   If you select the [Auto Sign In] check box, your ID and password are remembered and automatically signed in without entering them.

Note

- If you want to sign in with other account, press red (R) coloured button on [LG Smart World] or [My Apps] screen, and select [Change User] option.
- To view the information of your account and applications, press red (R) coloured button on [LG Apps] or [My Apps] screen, and select [Account Setting] option.

Searching online content

If you are having difficulties finding specific content from online services, you can use the all-in-one search function by entering keywords in the search menu.

1. Press HOME (⌂).
2. Select the [🔍] icon on the home menu using Λ / V / < / >, and press ENTER (⊙).

   The search menu appears on the screen with virtual keyboard.
3. Use Λ / V / < / > to select letters then press ENTER (⊙) to confirm your selection on the virtual keyboard.
4. When you finish entering the keyword, select [OK] and press ENTER (⊙) to display search result.
5. Use Λ / V / < / > to select a desired content, and press ENTER (⊙) to move to the selected content directly.

Note

- Depending on the region, the [LG Smart World], [My Apps], [🔍] and [👤] may not be available.
- The search function does not search content in every online services. It works only in certain online services.

Using the My Apps Menu

You can move or delete an installed application in the [My Apps] menu.

1. Press HOME (⌂).
2. Select the [My Apps], and press ENTER (⊙).



Move an application

1. Select an application, and press green (G) coloured button to display the options.
2. Use ∧ / ∨ to select [Move], and press ENTER (⊙).
3. Use ∧ / ∨ / < / > to select a position you want to move to, and press ENTER (⊙).

Delete an application

1. Select an application, and press green (G) coloured button to display the options.
2. Use ∧ / ∨ to select [Delete], and press ENTER(⊙).
3. Use < / > to select [Yes], and press ENTER (⊙) to confirm.

Note

Depending on the region, the [LG Smart World], [My Apps], [🔍] and [👤] may not be available.

Troubleshooting

General

Symptom	Cause & Solution
The Power does not turned on.	• Plug the power cord into the wall outlet securely.
The unit does not start playback.	• Insert a playable disc. (Check the disc type, colour system, and regional code.) • Place the disc with the playback side down. • Place the disc on the disc tray correctly inside the guide. • Clean the disc. • Cancel the Rating function or change the rating level.
The connected USB storage device is not recognized.	• Try using different USB cable, some USB cables may not support enough current for normal USB operation. • If you use an USB extension cable or USB HUB, the USB devices may not be recognized. • An USB device which requires additional program installation when you have connected it to a computer is not supported. • This unit supports only USB Flash Drive and USB External HDD with FAT32 or NTFS format.
The angle cannot be changed.	• Multi-angles are not recorded on the DVD Video being played.
Cannot play movie, photo or music files.	• The files are not recorded in a format that the unit can play. • The unit does not support the codec of the movie file.
The remote control does not work properly.	• The remote control is not pointed at the remote sensor of the unit. • The remote control is too far from the unit. • There is an obstacle in the path of the remote control and the unit. • The batteries in the remote control are exhausted.
The unit is plugged in, but the power will not turn on or off.	You can reset the unit as follows. • Unplug the power cord, wait at least five seconds, and then plug it in again.
The unit is not operating normally.	

Network

Symptom	Cause & Solution
BD-Live feature does not work.	• The connected USB storage may not have enough space. Connect the USB storage with at least 1 GB free space. • Ensure that the unit is correctly connected to the local area network and can access the internet (see page 16). • Your broadband speed may not fast enough to use the BD-Live features. Contact your Internet Service Provider (ISP) and increase the broadband speed is recommended. • The [BD-LIVE connection] option in the [Settings] menu is set to [Prohibited]. Set the option to [Permitted].
Streaming video services (such as YouTube™, etc.) are often stopped or "buffer" during playback.	• Your broadband service speed may not be fast enough to stream video services. Contact your Internet Service Provider (ISP) and increase the broadband speed is recommended.
Media servers are not displayed on the device list.	• The firewall or anti-virus software on your media server is running. Turn off the firewall or anti-virus software running on your media server. • The player is not connected to the local area network that your media server is connected.

Picture

Symptom	Cause & Solution
There is no picture.	• Select the appropriate video input mode on the TV so the picture from the unit appears on the TV screen. • Connect the video connection securely. • Check the [HDMI Color Setting] in the [Settings] menu is set to the appropriate item that conforms to your video connection. • Your TV may not support the resolution you have set on the player. Change the resolution that your TV accepts. • The player's HDMI OUT jack is connected to a DVI device that does not support copyright protection.
Picture noise appears.	• You are playing a disc recorded in a colour system that is different from your TV. • Set the resolution which your TV accepts.
Blu-ray 3D disc playback does not output 3D views.	• Connect the player to your TV with HDMI cable (Type A, High Speed HDMI™ Cable). • Your TV may not support "HDMI 3D mandatory format". • The [3D Mode] option in the [Settings] menu is set to [Off]. Set the option to [On].

Customer support

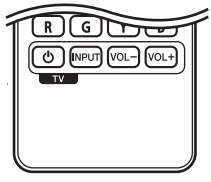
You can update the Player using the latest software to enhance the products operation and/or add new features. To obtain the latest software for this player (if updates have been made), please visit http://www.lg.com or contact LG Electronics customer care centre.

Open source software notice

To obtain the corresponding source code under GPL, LGPL and other open source licenses, please visit http://opensource.lge.com. All referred license terms, warranty disclaimers and copyright notices are available to download with the source code.

Controlling a TV with the Supplied Remote Control

You can control your TV using the buttons below.



By pressing	You can
⏻ (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 ⏻ (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 ⏻ (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 batteries of the remote, the code number you have set may be reset to the default setting. Set the appropriate code number again.

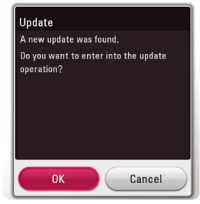
Network Software Update

Network update notification

From time to time, performance improvements and/or additional features or services may be made available to units that are connected to a broadband home network. If there is new software available and the unit is connected to a broadband home network, the player will inform you about the update as follows.

Option 1:

1. The update menu will appear on the screen when you turn on the player.
2. Use </> to select a desired option and then press ENTER (⊙).



[OK]	Starts the software update.
[Cancel]	Exits the update menu and the home menu appears.

Option 2:

If the software update is available from the update server, the "Update" icon appears in the Home menu. Press blue (B) coloured button to start the update procedure.

Software update

You can update the player using the latest software to enhance the products operation and/or add new features. You can update the software by connecting the unit directly to the software update server.

Note

- Before updating the software in your player, remove any disc and USB Device from the player.
- Before updating the software in your player, turn the player off and then turn it back on.
- **During the software update procedure, do not turn off the player or disconnect AC power, or do not press any button.**
- If you cancel the update, turn off the power and turn it on for stable performance.
- This unit cannot be updated to previous software version.

1. Check the network connection and settings (page 16).
2. Select [Software] option in the [Settings] menu then press ENTER (⊙).
3. Select [Update] option, and press ENTER (⊙).



The player will check for the newest update.

Note

- Pressing ENTER (⊙) while checking for the update will end the process.
- If there is no update available, the Message, "No update is found." appears. Press ENTER (⊙) to return to the [Home Menu].

4. If newer version exists, the message "A new update was found. The update takes a few minutes. Do you want to update?" appears.
5. Select [OK] to start update. (Selecting [Cancel] will end the update.)
6. The player starts downloading the newest update from the server. (Downloading will takes several minutes depending on your home network condition)
7. To update software the next time, the software update procedure has to be started from the beginning again.

Caution

Do not turn off the power during the software update.

Note

If the software includes the driver update, disc tray may open during the process.

8. When update is completed, the power will be turned off automatically in a few seconds.
9. Turn the power back on. The system now operates with the new version.

Note

The Software Update function may not work properly depending on your internet environment. In this case, you can obtain the latest software from the authorized LG Electronics Service Centre then update your player. Refer to "Customer Support" on page 51.

Additional Information

File requirement

Video files

File Location	File Extension	Codec Format	Audio Format	Subtitle
Disc, USB	".avi", ".divx", ".mpg", ".mpeg", ".mkv", ".mp4", ".asf", ".wmv", ".m4v" (DRM free), ".vob", ".3gp", ".mov", ".trp", ".m2t", ".mpe", ".m1v", ".m2v", ".wm", ".flv", ".ts", ".dat"	DIVX 3.11, DIVX4, DIVX5, DIVX6 (standard playback only), XVID, MPEG1 SS, H.264/ MPEG-4 AVC, MPEG2 PS, MPEG2 TS, VC-1 SM (WMV3)	Dolby Digital, DTS, MP3, WMA, AAC, AC3	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)
DLNA	".avi", ".divx", ".mpg", ".mpeg", ".mkv", ".mp4", ".asf", ".wmv", ".m4v" (DRM free), ".3gp", ".mov", ".mpe", ".m1v", ".m2v", ".flv", ".ts", ".dat"	DIVX 3.11, DIVX4, DIVX5, DIVX6 (standard playback only), XVID, MPEG1 SS, H.264/ MPEG-4 AVC, MPEG2 PS, MPEG2 TS, VC-1 SM (WMV3)	Dolby Digital, DTS, MP3, WMA, AAC, AC3	SubRip (.srt / .txt), SAMI (.smi), SubStation Alpha (.ssa/.txt), MicroDVD (.sub/.txt), 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.
DLNA	"mp3", ".wma", ".wav", ".m4a" (DRM free), ".flac", ".ogg"	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, DLNA	".jpg", ".jpeg", ".png", ".gif", ".mpo", ".jps"	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.
- File compatibility may differ depending on the server.
- Because the compatibility on DLNA server are tested on the DLNA server (SmartShare PC Software) environment, file requirements and playback functions may differ depending on media servers.
- The file requirements on page 55 are not always compatible. There may have some restrictions by file features and media server's ability.
- Playing video subtitle files are only available on DLNA media server created by SmartShare PC Software downloaded from website.
- The files from removable media such as USB drive, DVD-drive etc. on your media server may not be shared properly.
- 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 played 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. A file with higher level may not be supported.
- This player does not support files that are recorded with GMC*1 or Qpel*2.

  *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 be playback a video file, video file name and Subtitle file name must be the same.
- When you play a video file with a extension such as ".ts", ".m2ts", ".mts", ".tp", ".Trp" or ".m2t", your player may not support subtitle files.
- The total playback time of audio file indicated on the screen may not 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 colour range than normal DVD camcorder discs.

About DLNA

This Player is a DLNA Certified digital media player that can display and play video, photo and audio content from your DLNA-compatible digital media server (PC and Consumer Electronics).

The Digital Living Network Alliance (DLNA) is a cross-industry organization of consumer electronics, computing industry and mobile device companies. Digital Living provides consumers with easy sharing of digital media through your home network.

The DLNA certification logo makes it easy to find products that comply with the DLNA Interoperability Guidelines. This unit complies with DLNA Interoperability Guidelines v1.5.

When a PC running DLNA server software or other DLNA compatible device is connected to this player, some setting changes of software or other devices may be required. Please refer to the operating instructions for the software or device for more information.

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, centre, 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 Centre.
- 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 a 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 an USB device to store some disc related information, including downloaded online content. The disc you are using will control how long this information is retained.

Audio Output Specifications

Jack/Setting / Source	COAXIAL (DIGITAL AUDIO OUT)		
	PCM	DTS Re-encode *3	Auto
Dolby Digital	PCM 2ch	DTS	Dolby Digital
Dolby Digital Plus	PCM 2ch	DTS	Dolby Digital
Dolby TrueHD	PCM 2ch	DTS 2ch	Dolby Digital
DTS	PCM 2ch	DTS	DTS
DTS-HD	PCM 2ch	DTS	DTS
Linear PCM 2ch	PCM 2ch	DTS 2ch	PCM 2ch
Linear PCM 5.1ch	PCM 2ch	DTS	PCM 2ch
Linear PCM 7.1ch	PCM 2ch	DTS	PCM 2ch

Jack/Setting / Source	HDMI OUT		
	PCM	DTS Re-encode *3	Auto *1 *2
Dolby Digital	PCM 2ch	DTS	Dolby Digital
Dolby Digital Plus	PCM 2ch	DTS	Dolby Digital Plus
Dolby TrueHD	PCM 2ch	DTS 2ch	Dolby TrueHD
DTS	PCM 2ch	DTS	DTS
DTS-HD	PCM 2ch	DTS	DTS-HD
Linear PCM 2ch	PCM 2ch	DTS 2ch	Linear PCM 2 ch
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]).

- If the HDMI OUT jack is connected to your TV with High Speed HDMI™ Cable and Dolby Digital Plus/Dolby TrueHD is outputted from HDMI OUT jack, DIGITAL AUDIO OUT jack is limited to "PCM 2ch" (When the HDMI and DIGITAL AUDIO OUT are connected simultaneously).

- 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 23).
- With digital audio connection (DIGITAL AUDIO OUT or 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	RU	Vietnam	VN
Ecuador	EC	Luxembourg	LU	Saudi Arabia	SA	Zimbabwe	ZW
Egypt	EG	Malaysia	MY	Senegal	SN		
El Salvador	SV	Maldives	MV				
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	Frisian	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	Panjabi	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				

Trademarks and Licenses

Blu-ray Disc™, Blu-ray™, Blu-ray 3D™, BD-Live™, BONUSVIEW™ and the logos are trademarks of the Blu-ray Disc Association.

"DVD Logo" is a trademark of DVD Format/Logo Licensing Corporation.

Java is a trademark of Oracle and/or its affiliates.

The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

"x.v.Color" is a trademark of Sony Corporation.

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

For DTS patents, see http://patents.dts.com. Manufactured under license from DTS Licensing Limited. DTS, the Symbol, & DTS and the Symbol together are registered trademarks, and DTS 2.0+Digital Out is a trademark of DTS, Inc. © DTS, Inc. All Rights Reserved.

DLNA®, the DLNA Logo and DLNA CERTIFIED® are trademarks, service marks, or certification marks of the Digital Living Network Alliance.

"AVCHD" and the "AVCHD" logo are trademarks of Panasonic Corporation and Sony Corporation.

DivX®, DivX Certified® and associated logos are trademarks of Rovi Corporation or its subsidiaries and are used under license.

Cinavia Notice

This product uses Cinavia technology to limit the use of unauthorized copies of some commercially-produced film and videos and their soundtracks. When a prohibited use of an unauthorized copy is detected, a message will be displayed and playback or copying will be interrupted.

More information about Cinavia technology is provided at the Cinavia Online Consumer Information Centre at http://www.cinavia.com. To request additional information about Cinavia by mail, send a postcard with your mailing address to: Cinavia Consumer Information Centre, P.O. Box 86851, San Diego, CA, 92138, USA.

This product incorporates proprietary technology under license from Verance Corporation and is protected by U.S. Patent 7,369,677 and other U.S. and worldwide patents issued and pending as well as copyright and trade secret protection for certain aspects of such technology. Cinavia is a trademark of Verance Corporation. Copyright 2004-2013 Verance Corporation. All rights reserved by Verance. Reverse engineering or disassembly is prohibited.

Specifications

General	
Power requirements	Refer to main label on the rear panel.
Power consumption	12 W
Dimensions (W x H x D)	Approx. 360 mm x 41.5 mm x 200 mm
Net Weight (Approx.)	1.4 kg
Operating temperature	5 °C - 35 °C
Operating humidity	5 % - 90 %

Outputs	
HDMI OUT (video/audio)	19 pin (Type A, HDMI™ Connector)
DIGITAL AUDIO OUT (COAXIAL)	0.5 V (p-p), 75 Ω, RCA jack x 1

System	
Laser	Semiconductor laser
wavelength	405 nm / 650 nm
Signal system	Standard PAL/NTSC colour TV system
LAN port	Ethernet jack x 1, 10BASE-T / 100BASE-TX
Bus Power Supply (USB)	5 V ⎓ 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 centre.

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 centre to out.

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

Important Information Relating to Network Services

All information, data, documents, communications, downloads, files, text, images, photographs, graphics, videos, webcasts, publications, tools, resources, software, code, programs, applets, widgets, applications, products and other content ("Content") and all services and offerings ("Services") provided or made available by or through any third party (each a "Service Provider") is the sole responsibility of the Service Provider from whom it originated.

The availability of and access to Content and Services furnished by the Service Provider through the LGE Device are subject to change at any time, without prior notice, including, but not limited to the suspension, removal or cessation of all or any part of the Content or Services.

Should you have any inquiry or problem related to the Content or Services, you may refer to the Service Provider's website for the most up-to-date information. LGE is neither responsible nor liable for customer service related to the Content and Services. Any question or request for service relating to the Content or Services should be made directly to the respective Content and Service Providers.

Please note that LGE is not responsible for any Content or Services provided by the Service Provider or any changes to, removal of, or cessation of such Content or Services and does not warrant or guaranty the availability of or access to such Content or Services.


LG
Life's Good