

# OWNER'S MANUAL Network 3D Blu-ray Disc™ Player

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

BD690

P/NO : SAC35095316 www.lg.com

#### Safety Information



# CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN



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



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

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



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

instructions in the literature accompanying the product.

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

**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 center.

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

To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation when open. DO NOT STARE INTO BEAM.

#### **CAUTION** concerning the Power Cord

Most appliances recommend they be placed upon a dedicated circuit;

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

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.

#### **FCC Compliance Statement**

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

**NOTE**: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**CAUTION:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

**FCC RF Radiation Exposure Statement:** This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

#### **FCC Radio Frequency Interference**

**Requirements:** This device is restricted to indoor use due to its operation in the 5.15 to 5.25 GHz frequency range. FCC requires this product to be used indoors for the frequency range 5.15 to 5.25 GHz to reduce the potential for harmful interference to co-channel Mobile Satellite systems.

**CAUTION:** Regulations of the FCC and FAA prohibit airborne operation of radio-frequency wireless devices because their signals could interfere with critical aircraft instruments.

#### Responsible Party:

LG Electronics USA, Inc.1000 Sylvan Avenue Englewood Cliffs, NJ 07632

TEL.: +1-800-243-0000

#### Notes on Copyrights

- Because AACS (Advanced Access Content System) is approved as content protection system for Blu-ray Disc format, similar to use of CSS (Content Scramble System) for DVD format, certain restrictions are imposed on playback, analog signal output, etc., of AACS protected contents. The operation of this product and restrictions on this product may vary depending on your time of purchase as those restrictions may be adopted and/or changed by AACS after the production of this product.
- Furthermore, BD-ROM Mark and BD+ are additionally used as content protection systems for Blu-ray Disc format, which imposes certain restrictions including playback restrictions for BD-ROM Mark and/or BD+ protected contents. To obtain additional information on AACS, BD-ROM Mark, BD+, or this product, please contact an authorized Customer Service Center.
- Many BD-ROM/DVD discs are encoded with copy protection. Because of this, you should only connect your player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected discs.
- This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Rovi, and is intended for home and other limited viewing uses only unless otherwise authorized by Rovi. 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 SAFETY INSTRUCTIONS

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.
  When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tipover.
- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as powersupply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

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## Introduction

#### Playable Discs and symbols used in this manual

| Media/Term   | Logo   | Symbol                     | Description  |
|--|--|----------------------------|--|
| Blu-ray  | Blu-ray Disc<br>Blu-ray Disc<br>Blu-ray<br>3D.<br>Blu-ray<br>3D.   | MOVIE<br>MUSIC<br>PHOTO    | <ul> <li>Discs such as movies that can be purchased or rented.</li> <li>"Blu-ray 3D" discs and "Blu-ray 3D ONLY" discs.</li> <li>BD-R/RE discs that are recorded in BDAV format.</li> <li>BD-R/RE discs that contain Video, Audio or Photo files.</li> <li>ISO 9660+JOLIET, UDF and UDF Bridge format</li> </ul> |
| DVD-ROM<br>DVD-R<br>DVD-RW<br>DVD+R<br>DVD+RW<br>(8 cm, 12 cm) | VIDEO VIDEO RW DVD-R WHITE DVD-R DVD | AVCHD  MOVIE  MUSIC  PHOTO | Discs such as movies that can be purchased or rented. Video mode and finalized only Supports the dual layer disc also Finalized AVCHD format  DVD±R/RW discs that contain Video, Audio or Photo files. ISO 9660+JOLIET, UDF and UDF Bridge format  |
| DVD-RW (VR)<br>(8 cm, 12 cm)                                   | DVD<br>RW  | DVD                        | VR mode and finalized only   |
| Audio CD<br>(8 cm, 12 cm)                                      | DIGITAL AUDIO  | ACD                        | Audio CD   |
| CD-R/RW<br>(8 cm, 12 cm)                                       | DIGITAL AUDIO Recordable ReWritable  | MOVIE<br>MUSIC<br>PHOTO    | CD-R/RW discs that contain Video, Audio or<br>Photo files.     ISO 9660+JOLIET, UDF and UDF Bridge format  |
| HDD  | _  | MOVIE<br>MUSIC<br>PHOTO    | Video, Audio or Photo files that contained in the internal hard disk drive.  |
| Note   | -  | 0                          | Indicates special notes and operating features.  |
| Caution  | _  | <u>(1)</u>                 | 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 "O" 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.

#### File requirement

#### Video files

| File<br>Location     | File<br>Extension   | Codec Format  | Audio Format                                    | Subtitle  |
|----------------------|---|---|---|---|
| Disc,<br>USB,<br>HDD | ".avi", ".divx", ".mpg", ".mpeg", ".mkv", ".mp4", ".asf", ".wmv", ".m4v" (DRM free) | DIVX3.xx, DIVX4.xx,<br>DIVX5.xx, DIVX6.xx<br>(standard playback<br>only), XVID, MPEG1 SS,<br>H.264/MPEG-4 AVC,<br>MPEG2 PS, MPEG2 TS,<br>VC-1 SM (WMV3) | Dolby Digital,<br>DTS, MP3,<br>WMA, AAC,<br>AC3 | SubRip (.srt / .txt), SAMI (.smi),<br>SubStation Alpha (.ssa/.txt),<br>MicroDVD (.sub/.txt), VobSub<br>(.sub), SubViewer 1.0 (.sub),<br>SubViewer 2.0 (.sub/.txt), TMPlayer<br>(.txt), DVD Subtitle System (.txt) |
| DLNA, PC             | ".avi", ".divx", ".mpg", ".mpeg", ".mkv", ".mp4", ".asf", ".wmv",                   | DIVX3.xx, DIVX4.xx,<br>DIVX5.xx, DIVX6.xx<br>(standard playback<br>only), XVID, MPEG1 SS,<br>H.264/MPEG-4 AVC,<br>MPEG2 PS, MPEG2 TS,<br>VC-1 SM (WMV3) | Dolby Digital,<br>DTS, MP3,<br>WMA, AAC,<br>AC3 | SubRip (.srt / .txt), SAMI (.smi),<br>SubStation Alpha (.ssa/.txt),<br>MicroDVD (.sub/.txt), SubViewer<br>1.0 (.sub), SubViewer 2.0 (.sub/.<br>txt), TMPlayer (.txt), DVD Subtitle<br>System (.txt)               |

#### **Audio files**

| File<br>Location                  | File<br>Extension                              | Sampling Frequency                                       | Bitrate  | Note   |
|-----------------------------------|--|--|--|--|
| Disc,<br>USB,<br>HDD,<br>DLNA, PC | "mp3", ".wma",<br>".wav", ".m4a"<br>(DRM free) | within 32 - 48 kHz<br>(WMA), within 16 - 48<br>kHz (MP3) | within 20 - 320 kbps<br>(WMA), within 32 - 320<br>kbps (MP3) | Some wav files are not supported on this player. |

#### Photo files

| File                              | File                        | Recommended  | Note  |
|-----------------------------------|-----------------------------|--|---|
| Location                          | Extension                   | Size   |   |
| Disc,<br>USB,<br>HDD,<br>DLNA, PC | ".jpg", ".jpeg",<br>".png", | Less than 4,000 x 3,000 x 24 bit/pixel<br>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 contents on the media.
- File compatibility may differ depending on the server.
- Because the compatibility on DLNA server are tested on the bundle DLNA server (Nero MediaHome 4 Essentials) environment, file requirements and playback functions may differ depending on media servers.
- The file requirements on page 10 are not always compatible. There may have some restrictions by file features and media server's ability.
- Playing a movie subtitle files are only available on share folder of a PC or DLNA media server created by supplied Nero MediaHome 4 Essentials software on this player package.
- The files from removable media such as USB drive, DVD-drive etc. on your media server may not be shared properly.
- This unit cannot support the ID3 Tag embedded MP3 file.
- The total playback time of audio file indicated on the screen may not correct for VBR files.
- HD video files contained on the CD or USB 1.0/1.1 may not played properly.
   Blu-ray Disc, DVD or USB 2.0 are recommended to play back HD video files.
- This player supports H.264/MPEG-4 AVC profile Main, High at Level 4.1. For a file with higher level, the warning message will appear on the screen.
- This player does not support files that are recorded with GMC\*1 or Qpel\*2.
  - \*1 GMC Global Motion Compensation
  - \*2 Qpel Quarter pixel

## AVCHD (Advanced Video Codec High Definition)

- This player can playback AVCHD format discs.
   These discs are normally recorded and used in camcorders.
- The AVCHD format is a high definition digital video camera format.
- The MPEG-4 AVC/H.264 format is capable of compressing images at higher efficiency than that of the conventional image compressing format.
- This player can playback AVCHD discs using "x.v.Color" format.
- Some AVCHD format discs may not play depending on the recording condition.
- AVCHD format discs need to be finalized.
- "x.v.Color" offers a wider color range than normal DVD camcorder discs.

#### **About DLNA**

This Player is a DLNA Certified digital media player that can display and play movie, photo and music 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 COMPONENT or HDMI input jacks.
- BD-ROM disc with high definition content.
- HDMI or HDCP capable DVI input on your display device is required for some content (as specified by disc authors).

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

- An amplifier/receiver with a built-in (Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS or DTS-HD) decoder.
- Main, center, surround speakers and subwoofer as necessary for chosen format.

For playing files on your PC's share folder via your home network, the PC requires below.

- Windows® XP (Service Pack 2 or higher), Windows Vista® (no Service Pack required)
   Windows 7® (no Service Pack required)
- 1.2 GHz Intel® Pentium® III or AMD Sempron™ 2200+ processors
- Network environment: 100 Mb Ethernet, WLAN
- More than 1 folder on your PC has to be shared.
   Visit suppot link of your operating system for more information on file share settings.

#### **LG** 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 Apps Marketplace" for detailed information of "LG Remote".

#### WOL (Wake On LAN)

Users can turn on this player using WOL embeded utility on your personal computer or smartphone via your home network. To use this feature, this player must be connected to the WOL available access point or router. Refer to the relevant manual of the utility or network devices for more detailed information.

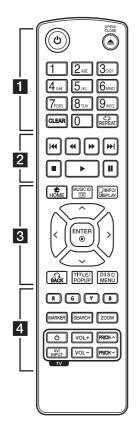
#### Regional Code

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

#### **Compatibility Notes**

- Because BD-ROM is a new format, certain disc, digital connection and other compatibility issues are possible. If you experience compatibility problems, please contact an authorized Customer Service Center.
- This unit allows you to enjoy functions such as picture-in-picture, secondary audio and Virtual packages, etc., with BD-ROM supporting BONUSVIEW (BD-ROM version 2 Profile 1 version 1.1/ Final Standard Profile). 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 upconverting standard DVD content may require a HDMl-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 the internal hard disk drive or a USB device to store some disc related information, including downloaded on-line content. The disc you are using will control how long this information is retained.

#### Remote control



#### **Battery Installation**



Remove the battery cover on the rear of the Remote Control, and insert two R03 (size AAA) batteries with  $\oplus$  and  $\oplus$  matched correctly.

(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 or inputs letters in the keypad menu.

**CLEAR:** Removes a mark on the search menu or a number when setting the password.

**REPEAT ( Repeats a desired section or sequence.** 

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

■ (STOP): Stops playback.

► (PLAY): Starts playback.

II (PAUSE): Pauses playback.. . . . . .3 . . . . .

**HOME (** ): Displays or exits the [Home Menul.

**MUSIC ID:** When connected to the network, can provide information about the current song while movie playback.

**INFO/DISPLAY (**:): Displays or exits On-Screen Display.

**Direction buttons:** Selects an option in the menu.

**ENTER (⊚):** Acknowledges menu selection.

BACK (¿¬): Exits the menu or resumes playback. The resume play function may not work depending on the BD-ROM disc.

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

**DISC MENU:** Accesses menu on a disc.

## Colored (R, G, Y, B) buttons:

Use to navigate BD-ROM menus. They are also used for [MOVIE], [PHOTO], [MUSIC], [Premium] and [LG Apps] menu.

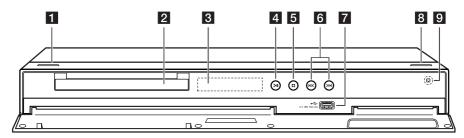
**MARKER:** Marks any point during playback.

**SEARCH:** Displays or exits the search menu.

**ZOOM:** Displays or exits the [Zoom] menu.

TV Control Buttons: See page 62.

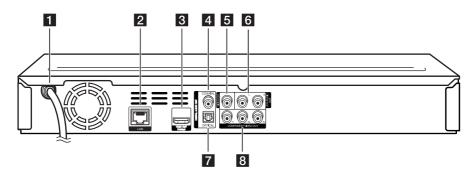
#### Front panel



- 1 (POWER) Button
- 2 Disc Tray
- 3 Display Window
- 4 >|| (PLAY / PAUSE)
- **5** □ (STOP)

- 6 **|**≪/≫| (SKIP)
- 7 USB Port
- 8 △ (OPEN/CLOSE)
- 9 Remote Sensor

## Rear panel



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

- 5 VIDEO OUT
- 6 2CH AUDIO OUT (Left/Right)
- 7 DIGITAL AUDIO OUT (OPTICAL)
- 8 COMPONENT VIDEO OUT (Y PB PR)

#### Connecting to Your TV

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

- HDMI connection (page 15)
- Component Video connection (page 16)
- Video connection (page 17)

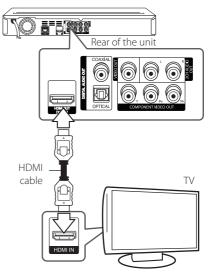


#### Note

- Depending on your TV and other equipment you wish to connect, there are various ways you could connect the player. Use only one of the connections described in this manual.
- Please refer to the manuals of your TV,
   Stereo System or other devices as necessary to make the best connections.
- Do not connect the player's AUDIO OUT jack to the phono in jack (record player) of your audio system.
- Do not connect your player via your VCR.
   The image could be distorted by the copy protection system.

#### **HDMI Connection**

If you have a HDMITV 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).

#### 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 720x480p, 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 17)
- Select the type of video output from the HDMI OUT jack using [HDMI Color Setting] option on the [Setup] menu (see page 27).
- Changing the resolution when the connection has already been established may result in malfunctions. To solve the problem, turn off the player and then turn it on again.
- When the HDMI connection with HDCP is not verified TV screen is changed to black screen. In this case, check the HDMI connection, or disconnect the HDMI cable.
- If there are noises or lines on the screen. please check the HDMI cable (length is generally limited to 4.5 m(15 ft.)).

#### What is SIMPLINK?



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

Controllable functions by LGTV'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.

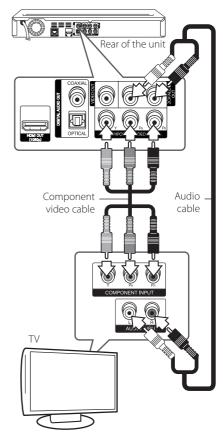


#### Note -

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

#### Component Video Connection

Connect the COMPONENT VIDEO OUT jacks on the player to the corresponding input jacks on the TV using component video cable. Connect the left and right AUDIO OUT jacks of the player to the audio left and right IN jacks on the TV using the audio cables.





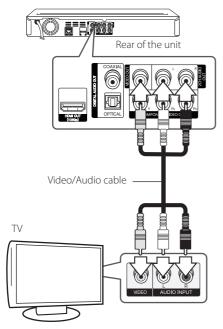
#### Note

When you use COMPONENT VIDEO OUT connection, you can change the resolution for the output. (Refer to "Resolution setting" on page 17)

2

## Video/Audio (Left/Right) Connection

Connect the VIDEO OUT jack on the player to the video in jack on the TV using a video cable. Connect the left and right AUDIO OUT jacks of the player to the audio left and right IN jacks on the TV using the audio cables.



#### **Resolution Setting**

The player provides several output resolutions for HDMI OUT and COMPONENT VIDEO OUT jacks. You can change the resolution using [Setup] menu.

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



 Use ∧ / V to select the desired resolution then press ENTER (♠) to confirm your selection.



- If your TV does not accept the resolution you have set on the player, you can set resolution to 480p as follows:
  - 1. Press ♠ to open the disc tray.
  - 2 Press  $\blacksquare$  (STOP) for more than 5 seconds.
- Since several factors affect the resolution of video output, see "Video Output Resolution" on page 72.

## Connecting to an Amplifier

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

- HDMI Audio connection (page 18)
- Digital Audio connection (page 19)
- 2CH Analog Audio connection (page 19)

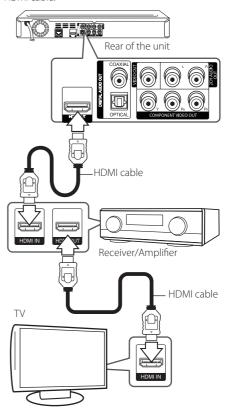
Since many factors affect the type of audio output, see "Audio Output Specifications" for details (page 70).

#### 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.

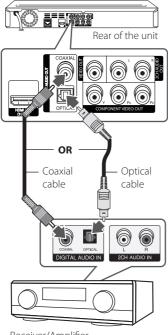


Connect the amplifier's HDMI output jack to HDMI input jack on your TV using a HDMI cable if your amplifier has HDMI output jack.

You will need to activate the player's digital output. (See "[AUDIO] Menu" on page 28)

## Connecting to an Amplifier via Digital Audio Output

Connect the player's DIGITAL AUDIO OUT jack to the corresponding in jack (OPTICAL or COAXIAL) on your amplifier using an optional digital audio cable.

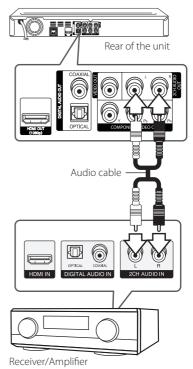


Receiver/Amplifier

You will need to activate the player's digital output. (See "[AUDIO] Menu" on page 28)

## Connecting to an Amplifier via 2 Channel Audio Output

Connect the Left and Right 2CH AUDIO OUT jacks on the player to the audio left and right in jacks on your amplifier, receiver, or stereo system using audio cables.



#### Connecting to your Home Network

This player can be connected to a local area network (LAN) via the LAN port on the rear panel or the internal wireless module.

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.

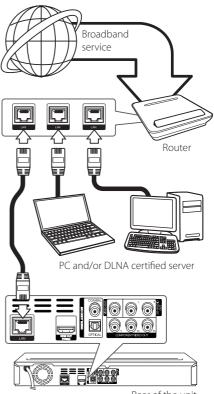
Please refer to the documentation for your network device for further instructions.

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 PCs or DLNA servers, this player must be connected to the same local area network with them via a router.



Rear of the unit

#### 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 [Setup] menu then press ENTER (♠).



 The [Connection Setting] menu appear on the screen. Use ∧ / V to select the [Wired] and press ENTER ().



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

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

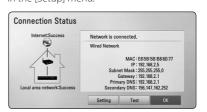


#### 1

#### 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  $\Lambda/V/$  
And numerical buttons. If you make a mistake while entering a number, press CLEAR to clear the highlighted part.

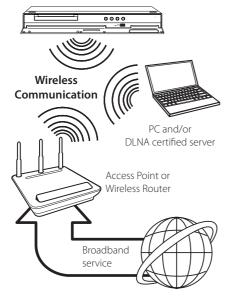
- 4. Select [OK] and press ENTER (**⊙**) to apply network settings.
- The player will ask you to test the network connection. Select [OK] and press ENTER (
  ) to complete the network connection.
- If you select [Test] and press ENTER (♠) at step 5 above, the network connection status is displayed on the screen.
   You can also test it on the [Connection Status] in the [Setup] menu.



#### Wireless Network Connection

Another connection option is to use an Access Point or a wireless router. The network configuration and connection method may vary depending on the equipment in use and the network environment.

This player is equipped with an IEEE 802.11n (Dualband 5 GHz and 2.4 GHz band) wireless module, which also supports the 802.11a/b/g standards. For the best wireless performance, we recommend using a IEEE 802.11n certified Wi-Fi network (access point or wireless router).



Refer to the setup instructions supplied with your access point or wireless router for detailed connection steps and network settings.

For best performance, a direct wired connection from this player to your home network's router or cable/DSL modem is always the best option. If you do chose to use the wireless option, note that performance can sometimes be affected by other electronic devices in the home.



#### Note

Available frequency range and channels for 5 GHz band are listed as below. But, there may have the differences and restrictions depending on the country. Try setting your access point with other channel if you have difficulties in wireless network connection

| Area             | Frequency Range   |
|------------------|---|
| North<br>America | 5.15-5.25 GHz (ch. 36-48),<br>5.725-5.825 GHz (ch. 149-161),<br>5.825-5.850 GHz (ch.165)  |
| Europe           | 5.15-5.25 GHz (ch. 36-48)   |
| Others           | 5.15-5.25 GHz (ch. 36-48),<br>5.725-5.825 GHz (ch. 149-161),<br>5.825- 5.850 GHz (ch.165) |

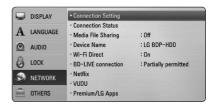
#### Wireless Network Setup

For the wireless network connection, the player needs to be set up for network communication. This adjustment can be done from the [Setup] menu. Adjust the [NETWORK] setting as follow. Setting up the access point or the wireless router is required before connecting the player to the network

#### **Preparation**

Before setting the wireless network, you need to:

- connect the broadband internet to the wireless home network.
- set the access point or wireless router.
- note the SSID and security code of the network.
- 1. Select [Connection Setting] option in the [Setup] menu then press ENTER (**②**).



- 2. The [Connection Setting] menu appear on the screen. Use  $\Lambda/V$  to select [Wireless] and press FNTFR (1).
- 3. Select [Yes] and press ENTER (**②**) to continue. The new connection settings reset the current network settings.
- 4. The player scans the all available access points or wireless routers within range and display them as a list. Use  $\Lambda/V$  to select an access point or wireless router on the list, and then press ENTER (
  ).



If you have security on your access point or wireless router, verify that the WEP or WPA key that was entered into the player matches the router's information exactly. You need to input the security code as necessary.



#### Note

- WEP security mode generally have 4 keys available on an access point or wireless router's setting. If your access point or wireless router use WEP security, enter the security code of the key "No.1" to connect on your home network.
- An Access Point is a device that allows you to connect to your home network wirelessly.
- If your access point or wireless router supports the PIN Code configuration method based on WPS(Wi-Fi Protected Setup), press vellow (Y) colored button and note the code number on the screen. And then, enter the PIN number on a setting menu of your access point or wireless router to connect. Refer to the documentation for vour network device.

[Manual] - Your access point may not be broadcasting its access point name (SSID). Check your router settings through your computer and either set your router to broadcast SSID, or manually enter the access point name (SSID) in [Manual].

[Push Button] - If your access point or wireless router that supports the Push Button Configuration method, select this option and press the Push Button on your access point or wireless router within 120 counts. You do not need to know the access point name (SSID) and security code of your access point or wireless router.

5. Use  $\Lambda/V/\langle 1 \rangle$  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  $\Lambda/V/$ > and numerical buttons. If you make a mistake while entering a number, press CLEAR to clear the highlighted part.

- 6. Select [OK] and press ENTER (**②**) to apply network settings.
- 7. The player will ask you to test the network connection. Select [OK] and press ENTER (**②**) to complete the network connection.
- 8. If you select [Test] and press ENTER (**②**) at step 7 above, the network connection status is displayed on the screen. You can also test it on the [Connection Status] in the [Setup] menu.

#### **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.

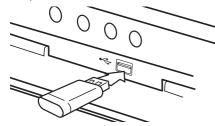
- A DSL modem is required to use DSL service and a cable modem is required to use cable modem service. Depending on the access method of and subscriber agreement with your ISP, you may not be able to use the internet connection feature contained in this player or you may be limited to the number of devices 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.
- The wireless network operate at 2.4GHz radio frequencies that are also used by other household devices such as cordless telephone, Bluetooth® devices, microwave oven, and can be affected by interference from them.
- Turn off all unused network equipment in your local home network. Some devices may generate network traffic.
- For the purpose of the better transmission, placing the player from the access point as close as possible.
- In some instances, placing the access point or wireless router at least 0.45 m (1.5 ft.) above the floor may improve the reception.
- · Move closer to the access point if possible or reorient the player so there is nothing between it and the access point.
- The reception quality over wireless depends on many factors such as type of the access point, distance between the player and access point, and the location of the player.
- Set your access point or wireless router to Infrastructure mode. Ad-hoc mode is not supported.

#### **USB** device connection

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

## Playback content in the USB device

1. Insert a USB device to the USB port until it fits into place.



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 takes 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 (1).
- 3. Select [Movie], [Photo] or [Music] using </>, and press ENTER (♠).
- Select the [USB] option using ∧ / V, and press ENTER (♠).



- 5. Select a file using  $\Lambda/V/</>$ , and press PLAY or ENTER ( $\odot$ ) to play the file.
- 6. Withdraw the USB device carefully.



#### Note

- This player supports USB flash drive/external HDD formatted in FAT16, FAT32 and NTFS when accessing files (music, photo, movie).
- The USB device can be used for the local storage for enjoying BD-Live discs with Internet.
- This unit can support up to 8 partitions of the USB device.
- Do not extract the USB device during operation (play, etc.).
- A USB device which requires additional program installation when you have connected it to a computer, is not supported.
- USB device: USB device that supports USB1.1 and USB2.0.
- Video, audio and photo files can be played.
   For details of operations on each file, refer to relevant pages.
- Regular back up is recommended to prevent data loss.
- If you use a USB extension cable, USB HUB or USB Multi-reader, the USB device may not be recognized.
- Some USB device may not work with this unit
- Digital camera and mobile phone are not supported.
- USB Port of the unit cannot be connected to PC. The unit cannot be used as a storage device.

#### **Settings**

#### Adjust the Setup Settings

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

Press HOMF ( 1).



2. Use </> to select the [Setup] and press ENTER (**②**). The [Setup] menu appears.



3. Use  $\Lambda/V$  to select the first setup option, and press > to move to the second level.



4. Use  $\Lambda/V$  to select a second setup option, and press ENTER (**③**) to move to the third level.



5. Use  $\Lambda/V$  to select a desired setting, and press ENTER (**②**) to confirm your selection.

#### [DISPLAY] Menu

#### TV Aspect Ratio

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

#### [4:3 Letter Box]

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

#### [4:3 Pan Scan]

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

#### [16:9 Original]

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

#### [16:9 Full]

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



#### Note

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

#### Resolution

Sets the output resolution of the Component and HDMI video signal. Refer to page 17 and 72 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.

#### [1080p]

Outputs 1080 lines of progressive video.

#### [1080i]

Outputs 1080 lines of interlaced video.

#### [720p]

Outputs 720 lines of progressive video.

#### [480p]

Outputs 480 lines of progressive video.

#### [480i]

Outputs 480 lines of interlaced video.

#### 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 [60 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 60 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.

#### Wallpaper

Changes the background of the initial screen.

#### 3D Mode

Select the type of output mode for Blu-ray 3D disc playback.

#### [Off]

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

#### [On]

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

#### 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 [Setup] menu and onscreen 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 (**②**) to select another language. Use number buttons then press ENTER (**③**) to enter the corresponding 4-digit number according to the language code list on page 67.

#### [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 70 for details.

#### HDMI / Digital Output (SPDIF)

#### [PCM Stereo]

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

#### [PCM Multi-Ch] (HDMI only)

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

#### [DTS Re-Encode]

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

#### [Primary Pass-Thru]

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.



#### Note

- · When [HDMI] option is set to [PCM Multi-Ch], the audio may output as PCM Stereo if the PCM Multi-Ch information is not detected from HDMI device with EDID.
- If the [HDMI] or [Digital Output (SPDIF)] 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 [Primary Pass-Thru]).

#### Sampling Freq. (Digital Audio Output)

#### [192 kHz]

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

#### [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.

#### [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.

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.

#### [Off]

Turns off this function.

#### [On]

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

#### [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.



#### Note

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

#### DTS Neo:6

If the player is connected to the multi-channel Audio Receiver by HDMl connection, set this option to enjoy the multi-channel surround sound with the 2-channel audio source.

#### [Off]

Outputs the stereo sound via front speakers.

#### [Music]

Outputs the multi-channel sounds that are optimized for listening to music.

#### [Cinema]

Outputs the multi-channel sounds that are optimized for watching movie.



#### Note

- This function is not available on an on-line service.
- Only the audio source with less than 48 kHz sampling frequency is available for this function.
- This function is available only when [HDMI] option is set to [PCM Multi-Ch].

#### [LOCK] Menu

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

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

If you have not entered a password yet, you are prompted to do so. Enter a 4-digit password twice, and press ENTER (**②**) to create a new password.

#### **Password**

You can create or change the password.

#### [None]

Enter a 4-digit password twice, and press ENTER (**②**) to create a new password.

#### [Change]

Enter the current password and press ENTER (**②**). Enter a 4-digit password twice, and press ENTER (**②**) 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. Select [Password] option in the [Setup] menu.
- 3. Use Number buttons to enter "210499". The password is cleared.



If you make a mistake before pressing ENTER (**③**), 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.
- For the region using MPAA rating level, refer to the table below as an example.

| Blu-ray Disc Rating | MPAA Rating    |
|---------------------|----------------|
| 0                   | G              |
| 8                   | PG             |
| 13                  | PG-13          |
| 17                  | R              |
| 18                  | NC-17          |
| 255                 | Not restricted |

#### Area Code

Enter the code of the area whose standards were used to rate the DVD video disc, based on the list on page 66.

3

#### [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 or wireless network connection for network communication. (See "Connecting to your Home Network" on page 20)

#### Connection Status

If you want to check the network status on this player, select the [Connection Status] options and press ENTER (**②**) to check whether a connection to the network and the internet have been established

#### Media File Sharing

If you want to share files in the internal hard disk drive to your PC or DLNA client device on your home network, set this option to [On].

#### [Media Share (DLNA) Allowance]

You can allow or deny DLNA devices to access share files. Select a device from the device list, and use  $\Lambda/V/\langle/\rangle$  to select [Allow] or [Deny] to control the access.

#### [File Share(CIFS) ID/Password]

For your security, you can set your ID and password for accessing share files from your PC. When you set your ID and password, you need to enter the ID and password to access from your PC.



#### Note

- For the better performance, less than 3 client devices for simultaneous access to this player is highly recommanded.
- Playback performance from your client device may be affected by the network condition and file specifications.
- Wireless network connection may result in improper access speed by interference from household devices that are using radio freauencies.

#### 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.

#### Wi-Fi Direct

This player is a Wi-Fi Direct™ certified device. Wi-Fi Direct<sup>™</sup> is the technology that devices to connect each other without connecting to an Access point or a router. Set this option to [On] for activating the Wi-Fi Direct<sup>™</sup> mode. Refer to page 37 for the device connection

#### **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.

#### Netflix

#### [Netflix ESN]

Display its unique Netflix ESN (Electronic Serial Number) that allows you to use the Netflix streaming.

#### [Deactivate Netflix]

Deactivates your player. To activate the Netflix again, contact to the service provider.

#### Vudu

#### Deactivate Vudu

You can deactivate your player from your Vudu account. It is recommended that you do this if you give your player to someone else who should not share your Vudu account.

#### [Delete Vudu Movie]

Deletes all the downloaded movies from Vudu.

#### Premium/LG Apps

#### [Country Setting]

Select your area for displaying proper services and contents on the [Premium] and [LG Apps] feature.

#### [ID Management]

Displays the [ID Management] menu. You can manage IDs that ever logged-in on this unit.

#### [Registration Code]

Display the unique code of this player for servicing [Premium] and [LG Apps] feature.

#### [OTHERS] Menu

#### Blu-ray Storage Select

This player can store some BD-ROM disc related information, including downloaded on-line content such as movie trailers and special features into the internal hard disk drive or an USB device.

#### [Built-In Storage]

Store the downloaded Blu-ray disc content on the internal hard disk drive

#### [USB Storage]

Store the downloaded Blu-ray disc content on the connected USB device

#### Blu-ray Storage Clear

Initializes the Blu-ray Disc contents from the built-in storage or the connected USB storage.

#### [Built-In Storage]

Delete all the downloaded contents from the internal hard disk drive.

#### [USB Storage]

Delete all the downloaded contents from the connected USB storage.

#### DivX® VOD

ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, Inc. This is an official DivX Certified® device that plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX video.

AROUT 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 VOD with this player's registration code can only be played back 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 Start1 function



#### Note

If [Quick Start] option is set to [On] and an AC power is acceidently 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.

#### **Auto Power Off**

The screen saver appears when you leave the player in Stop mode for about five minutes. If you set this option to [On], the unit automatically turns off within 25 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.

#### **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 (1) 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 10 are not always supported on [Network Play] function

#### Initialize

#### [Factory Set]

You can reset the player to its original factory settings.

#### [Internal HDD Format]

Format the internal hard disk drive. All the content stored in the internal hard disk drive will be deleted after the formatting.



#### 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.
- Do not turn off the player while formatting the internal hard disk drive. It may cause a serious problems.

#### 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 63).

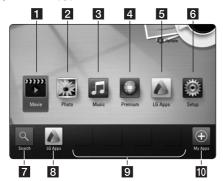
#### Disclaimer Notice

Press ENTER (**()**) to view the notice of Network Service Disclaimer.

#### General Playback

#### Using [HOME] menu

The home menu appears when you press HOME ( $\spadesuit$ ). Use  $\land / \lor / </>$  to select a category and press ENTER (**③**).





Depending on the region, the LG Apps service may not be available at the moment. The service will become available in these regions through at software update.

- 1 [Movie] - Plays video contents.
- [Photo] Plays photo contents.
- [Music] Plays audio contents.
- [Premium] Displays the Premium Home 4 screen.
- 5 [LG Apps] - Displays the [LG Apps] screen.
- 6 [Setup] - Adjusts the system settings.
- [Search] Displays the [Search] menu 7 (page 40).
- 8 [LG Apps] - Displays the [LG Apps] screen.
- [Favorite Apps] Shortcut for user's favorite 9 Apps.
- 10 | [My Apps] Display the [My Apps] screen.

#### Playing a Disc

#### BD DVD ACD

- 1. Press ♠ (OPEN/CLOSE), and place a disc on the disc trav.
- 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 (1).
- 4. Select [Movie] or [Music] using </>
  , and press ENTER (

  ).
- 5. Select [Blu-ray Disc], [DVD], [VR] or [Audio] option using  $\Lambda / V$ , and press ENTER ( $\odot$ ).
  - Note -
  - Playback functions described in this manual are not always available in every files and media. Some functions can be restricted depending on many factors.
  - Depending on the BD-ROM titles, a USB device connection may be needed for the proper playback.
  - Unfinalized DVD VR format discs may not be played in this player.
  - Some DVD-VR discs are made with CPRM data by DVD RECORDER. This unit cannot support these kinds of discs.

#### Playing a file on the hard disk drive/disc/USB device

#### MOVIE MUSIC PHOTO

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

- 1. Insert a data disc on the tray or connect a USB device.
- 2. Press HOME (1).
- 3. Select [Movie], [Photo] or [Music] using </>, and press ENTER (**②**).
- Select [Data], [USB] or [HDD] option using ∧ / **V**, and press ENTER (**⊙**).
- 5. Select a file using  $\Lambda/V/\langle \rangle$ , and press ►(PLAY) or ENTER (**②**) to play the file.

#### Playing Blu-ray 3D disc

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 Bluray 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 [Setup] menu to [On] (page 27).
- 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
- 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.

#### Enjoying BD-Live™



BD-ROM supporting BD-Live (BD-ROM version 2 Profile 2) 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 20).
- 2. Set the [Blu-ray Storage Select] setting in the [Setup] menu (page 32).
  - If the [Blu-ray Storage Select] option in the [Setup] menu is set to [USB Storage], a USB storage device connection is needed to download bonus content.
- 3. Press HOME (1), and set the [BD-LIVE] connection] option on the [Setup] menu (page 31).

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 are differ depending on the disc. Refer to the manual supplied with the disc.



Do not extract the connected USB device while content is being downloaded or a Bluray 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 contents may be restrictively accessed in some territories by contents provider's own decision.
- It may take up to several minutes to load and start enjoying BD-Live contents.

#### Playing a file on a network server

#### MOVIE MUSIC PHOTO

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

- 1. Check the network connection and settings (page 20).
- 2. Press HOME (1).
- 3. Select [Movie], [Photo] or [Music] using </>, and press ENTER (**②**).
- 4. Select a DLNA media server or a share folder on your PC on the list using  $\Lambda/V$ , and press ENTER (1).



If you want to rescan available media server, press the green (G) colored button.

5. Select a file using  $\Lambda/V/\langle \rangle$ , and press ENTER (**②**) to play the file.



#### Note

- · The file requirements are described on page
- 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.

#### Entering a network user ID and the password

Depending on your PC's environment, you may need to enter a network user ID and the password for accessing a shared folder.

- 1. The keyboard menu appears automatically if the network user ID and the password are required.
- 2. Use  $\Lambda/V/\langle/\rangle$  to select a character then press ENTER (**②**) to confirm your selection on the virtual keyboard.

To enter a letter with an accent mark, press INFO/DISPLAY ( ) to display the extended character set.



[Cancel] - Clear all entered characters.

[Space] – Inserts a space at the cursor position.

[<-] - Deletes the previous character at the cursor position.

[ABC / abc / #+-=&] - Change the keyboard menu settings to capital letters, small letters or symbols.

3. When you finish entering the network user ID and password, select [OK] using  $\Lambda/V/</>$ and press ENTER (**②**) to access the folder.

The network user ID and password will be remembered after accessing the folder for your convenience. If you do not want the network user ID and password to be remembered, press red (R) colored button to un-tick the [Remember] check box before accessing the folder.

## Wi-Fi Direct™ Connection

### Connecting to a Wi-Fi Direct™ certified device

## MOVIE MUSIC PHOTO

This player can play movie, music and photo files located in a Wi-Fi Direct™ certified device. The Wi-Fi Direct<sup>™</sup> technology make the player to be directely connected to a Wi-Fi Direct™ certified device without connecting to a network device such as an access point.

- 1. Set the [Wi-Fi Direct] option on the [Setup] menu to [On] (page 31).
- 2. Press HOME (1).
- 3. Select [Movie], [Photo] or [Music] using </>, and press ENTER (**②**).
- 4. Select [Wi-Fi Direct] option using  $\Lambda/V$ , and press ENTER (**③**).



5. Select a Wi-Fi Direct™ device on the list using  $\Lambda/V$ , and press ENTER ( $\odot$ ).

Wi-Fi Direct<sup>™</sup> connection will be automatically proceeded.



If the Wi-Fi Direct™ device supports the PIN Code configuration method based on WPS(Wi-Fi Protected Setup), select a device on the list and press yellow (Y) coloured button. Note the PIN number on the screen. And then, enter the PIN number on a setting menu of the device to

If you want to rescan available Wi-Fi Direct™ device, press the green (G) coloured button. 6. Select a server that shared from the connected Wi-Fi Direct<sup>™</sup> device using **\( \lambda \/ \lambda \)**, and press ENTER ( ) to navigate the server.



To select a server from the device list, files or folders must be shared by DLNA server from the connected Wi-Fi Direct™ device.

7. Select a file using  $\Lambda/V/\langle \rangle$ , and press ENTER (**②**) to play the file.



- For the purpose of the better transmission. placing the player from the Wi-Fi Direct™ certified server as close as possible.
- This unit can connect only 1 device at a time. Multiple connection is not available.
- If you try to connect wireless network while a device is connected by Wi-Fi Direct™ function . Wi-Fi Direct™ connection will be force disconnected.
- If this player and a Wi-Fi Direct<sup>™</sup> device are connected to the different local area network, Wi-Fi Direct™ connection may not available

#### Connecting to a Wi-Fi available devices

## MOVIE MUSIC PHOTO

This player can connect to a general Wi-Fi device using Wi-Fi Direct™ function.

- 1. Set the [Wi-Fi Direct] option on the [Setup] menu to [On] (page 31).
- 2. Press HOME (1).
- 3. Select [Movie], [Photo] or [Music] using </>, and press ENTER  $(\odot)$ .
- 4. Select [Wi-Fi Direct] option using  $\Lambda/V$ , and press ENTER (1).



5. Press red (R) coloured button to display the [SSID], [Security Option] and [Encription] of the player.



- 6. On your Wi-Fi device, make a network connection to this player, using [Network name (SSID)], [Security Option] and [Encription] at step 5 above.
- 7. Press BACK ( ) twice to display the device list.

8. Select a server that shared from the connected Wi-Fi device using  $\Lambda/V$ , and press ENTER ( $\odot$ ) to navigate the server.



To select a server from the device list, files or folders must be shared by DLNA server from the connected device.

9. Select a file using  $\Lambda/V/\langle \rangle$ , and press ENTER (**③**) to play the file.

# Basic operations for video and audio content

#### To stop playback

Press ■ (STOP) while playback.

#### To pause playback

Press ■ (PAUSE) while playback.
Press ► (PLAY) to resume playback.

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

Press **■** (PAUSE) while movie playback.

Press **II** (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

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 I◀◀ or ▶▶I 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 contents 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 II (PAUSE) while slide show.

Press  $\blacktriangleright$  (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



#### 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 while playback, press DISC MENU.

Use  $\Lambda/V/</>$  buttons to navigate through menu items

# To display the Pop-up menu

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

Press TITLE/POPUP while playback, and use  $\Lambda/V/$  </>> buttons to navigate through menu items.

# Searching content in the hard disk drive by entering file name

If you are having difficulties finding content in the hard disk drive, you can search for the content by entering keyword with the virtual keyboard

1. On the [Movie], [Photo], [Music] or Home menu, press SEARCH to display the virtual keyboard.



- 2. Use  $\Lambda/V/</>$  to select letters then press ENTER (**②**) to confirm your selection on the virtual keyboard.
- 3. When you finish entering the keyword, select [OK] and press ENTER (**②**) to display search result.



- 4. Press </> repeatedly until the search result is selected, and use  $\Lambda/V$  to select a desired content
- 5. Press ENTER (**③**) to play the content.

### Resume playback

# BD DVD AVCHD MOVIE ACD

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

If "III (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.



- The resume point may be cleared when a button is pressed (for example; (1) (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.

# **Advanced Playback**

# Repeat Playback

# BD DVD AVCHD ACD MUSIC

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

#### Blu-ray Disc /DVD

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

**2** Chapter – The current chapter will be played back repeatedly.

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

To return to normal playback, press REPEAT (C) repeatedly to select [Off].

#### Audio CDs/Audio files

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

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

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

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

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

To return to normal playback, press CLEAR.



- If you press >> once during Repeat Chapter/Track playback, the repeat playback cancels.
- This function may not work on some disc or title

## Repeating a specific portion

## BD DVD AVCHD ACD

This player can repeat a portion you have selected.

- While playback, press REPEAT ((2)) to select [A-] at the beginning of the portion you wish to repeat.
- Press ENTER (♠) at the end of the portion. Your selected portion will be repeated continually.
- 3. To return to normal playback, press REPEAT (CD) repeatedly to select [Off].



#### Note

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

# Enlarge the playback image

# BD DVD AVCHD MOVIE PHOTO

- 1. During playback or pause mode, press ZOOM to display the [Zoom] menu.
- Use red (R) or green (G) colored button to zoom out or in the picture. You can move through the zoomed picture using ∧/V/</> buttons.
- 3. To return to the normal picture size, press yellow (Y) colored button.
- 4. Press BACK ( ) to exit the [Zoom] menu.

#### Marker Search

# BD DVD AVCHD MOVIE

You can start playback from up to nine memorized points.

#### To enter a marker

- 1. While playback, press MARKER at the desired point. The Marker icon appears on the TV screen briefly.
- 2. Repeat step 1 to add up to nine markers.

#### To recall a marked scene

- 1. Press SEARCH and the search menu appears on the screen
- 2. Press a number button to select a marker number that you want to recall. Playback starts from the marked scene

#### To delete a Marker

1. Press SEARCH and the search menu appears on the screen.



- 2. Press V to highlight a marker number. Use </> to select a marked scene that you want to delete.
- 3 Press CLEAR and the marked scene is erased from the search menu.



- This function may not work depending on discs, titles, server ability.
- All marked points are cleared if the title is in complete stop (■) mode, the title is changed or if you unload the disc.
- If the total length of the title is less than 10 seconds, this function is not available.

## Using the search menu

# BD DVD AVCHD MOVIE

Using search menu, you can easily to find the point where you want to start playback.

#### To search a point

1. During playback, press SEARCH to display the search menu.



2. Press </> to skip the playback 15 seconds forward or backward. You can select a point that you want to skip by pressing and holding </ > button.

#### To start playback from a marked scene

- 1. Press SEARCH and the search menu appears on the screen.
- 2. Press V to highlight a marker number. Use </ > to select a marked scene that you want to start playback.
- 3. Press ENTER (**②**) to start playback from the marked scene.



- This function may not work depending on discs, titles, server ability.
- This function may not work depending on the file type and ability of the media server.

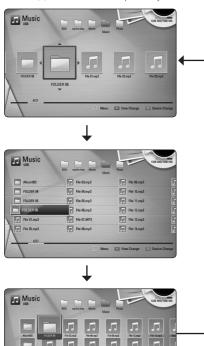
# Changing content list view

## MOVIE MUSIC PHOTO

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

#### Method 1

Press red (R) colored button repeatedly.



#### Method 2

- 1. On the content list, press INFO/DISPLAY ( ) to display the option menu.
- 2. Use  $\Lambda/V$  to select the [View Change] option.
- 3. Press ENTER (**②**) to change the content list view.

## Viewing content information

#### MOVIE

The player can display the content information.

- 1. Select a file using  $\Lambda/V/\langle \rangle$ .
- 2. Press INFO/DISPLAY ( ) to display the option menu.
- 3. Select the [Information] option using  $\Lambda/V$ , and press ENTER (②).

The file information appears on the screen.

While movie 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.

# 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  $\Lambda/V/</>$  to select the subtitle file you wish to play in the [Movie] menu.
- 2. Press ENTER (
  ).



Press ENTER (**②**) again to deselect the subtitle file. Selected subtitle file will be displayed when you play the Video file.



#### Note

- If you press (STOP) while playback, the subtitle selection is cancelled.
- This function is not available for playing file on a server via home network.

# 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.



- 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.

# Applying your photo to the Wallpaper

You can apply your photo to the wallpaper.

- 1. Press HOME (1).
- 2. Select [Photo] using </>
  , and press ENTER
- 3. Select [Data], [USB] or [HDD] option using  $\Lambda/V$ , and press ENTER ( $\odot$ ).
- 4. Select a photo file, and press INFO/DISPLAY ( ) to display the option menu.
- 5. Use  $\Lambda/V$  to select [Wallpaper], and press ENTER (**②**) to apply.

The photo will be set as [Wallpaper 5] on the [Setup] menu.

# Options while viewing a photo

### PHOTO

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

- 1. While viewing a photo in full screen, press INFO/ DISPLAY ( ) to display the option menu.
- 2. Select an option using  $\Lambda/V$ .



- 1 Current photo/Total number of photos - Use </>
  to view previous/next photo.
- 2 Slide Show Press ENTER (**③**) to start or pause slide show.
- **3** Music Select Select the background music for the slide show (page 45).
- 4 Music −Press ENTER (**⊙**) to start or pause background music.
- **5** Rotate Press ENTER (**O**) to rotate the photo clockwise.
- **6 Zoom** − Press ENTER (**⊙**) to display the [Zoom] menu.
- **7** Effect Use </> to select a transition effect between photos in a slide show.
- 8 Speed Use </> to select a delaying speed between photos in a slide show.
- 3. Press BACK( ) to exit the option menu.

# Listening to music while slide show

#### **PHOTO**

You can display photo files while listening to audio files.

- 1. While viewing a photo in full screen, press INFO/ DISPLAY ( $\square$ ) to display the option menu.
- 2. Use  $\Lambda/V$  to select [Music Select] option, and press ENTER (**②**) to display the [Music Select] menu.
- 3. Use  $\Lambda/V$  to select a device, and press ENTER

Device that you can select are differ depending on the location of the photo file you are displaying in full screen.

| Photo location    | Available Device  |  |  |
|-------------------|-------------------|--|--|
| Disc, USB, HDD    | Disc, USB, HDD    |  |  |
| Share Folder (PC) | Share Folder (PC) |  |  |
| DLNA server       | DLNA server       |  |  |

4. Use  $\Lambda/V$  to select a file or a folder you wish to play, and press ENTER (**()**) to display the lower directory.



Select **1** and press ENTER (**⊙**) to display the upper directory.



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

5. Use > to select [OK], and press ENTER (①) to complete music selection.

## Using the Music Library

The player offers Music Library menu for the music contents stored in the internal hard disk drive. The player accesses the Gracenote Media Database and loads the music information for all of the music contents in the internal hard disk drive. You can also manage the music contents by various categories from the Music Library menu.

- Press HOME (1).
- 2. Select [Music] using </>, and press ENTER (**②**).
- 3. Select the [HDD] using  $\Lambda/V$ , and press ENTER
- 4. Press INFO/DISPLAY ( ) to display the option menu.
- 5. Use  $\Lambda/V$  to select [Library mode] option, and press ENTER (**②**) to display the [Library] menu. If you want to return to the directory mode, press INFO/DISPLAY ( ) and select [Directory mode] and press ENTER (**②**).
- 6. All the audio files stored in the internal hard disk drive are sorted by categories with the music information loaded from Gracenote Media Database. Use  $\Lambda/V$  to select a category.



**Songs** – Audio files stored in the internal hard disk drive are sorted by name in alphabetical order.

**Genre** – Audio files stored in the internal hard disk drive are sorted by genre information from Gracenote Media Database.

Artist – Audio files stored in the internal hard disk drive are sorted by artist name from Gracenote Media Database in alphabetical order.

**Album** - Audio files stored in the internal hard disk drive are sorted by album title from Gracenote Media Database in alphabetical order.

PlayList - Displays audio files you have added to your playlist or displays audio files using several filter options.

You can search easily a content using power scroll bar. Use > repeatedly to select the power scroll bar on the right side of the screen.

Use  $\Lambda/V$  to select a letter, and press ENTER (**②**) to move the cursor to the music title which start with the letter you were selected.



#### Note

The player must be connected to the Internet in order to use the Music Library.

#### Adding an audio file to your playlist

- 1. Use  $\Lambda/V/</>$  to select a directory that files you want to add to the playlist are located.
- 2. Press INFO/DISPLAY ( ) to display the option
- 3. Use  $\Lambda/V$  to select [Add to playlist] option, and press ENTER (**O**) to display the [Add to playlist]
- 4. Use  $\Lambda/V$  to select a file you wish to add to the playlist, and press ENTER (**②**).

Repeat this step to select files as many as you can.

| Select All | Select all the files in the current directory. |
|------------|--|
| Close      | Cancels and returns to the previous screen.    |

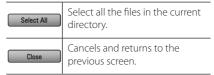
5. Use  $\Lambda/V/</>$  to select [Start], and press ENTER (

).

### Deleting an audio file from your playlist

- 1. On the Music Library menu, use  $\Lambda/V$  to select [PlayList], and press ENTER (
  ).
- 2. Use  $\Lambda/V$  to select [My Playlist] option, and press ENTER (**②**) to display your playlist.
- 3. Press INFO/DISPLAY (□) to display the option menu.
- 4. Use  $\Lambda/V$  to select [Delete from playlist] option, and press ENTER (**③**) to display the [Delete from Playlist] menu.
- 5. Use  $\Lambda/V$  to select a file you wish to add to the playlist, and press ENTER (**②**).

Repeat this step to select files as many as you can.



6. Use  $\Lambda/V/\langle/>$  to select [Start], and press ENTER (

).

# Using the Photo Library

The player offers Photo Library menu for the photos stored in the internal hard disk drive.

- 1. Press HOME (1).
- Select [Photo] using </>, and press ENTER
   (♠).
- Select the [HDD] using ∧ / V, and press ENTER (⑤).
- 4. Press INFO/DISPLAY (□) to display the option menu.
- Use ∧ / V to select [Library mode] option, and press ENTER (●) to display the [Library] menu.
   If you want to return to the directory mode, press INFO/DISPLAY (□) and select [Directory mode] and press ENTER (●).
- Photo files stored in the internal hard disk drive are sorted by the date when original image was taken and displayed in the calendar.



- Use ∧/V/</> to select a date, and press ENTER (●) to display photos created in that date.
- Use ∧ / V / </> to select a photo file, and press ENTER (**②**) to display the photo in full screen.



#### Note

A photo file may not be displayed in photo library mode, if the photo file does not have the information of taken date.

# On-Screen display

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

# Displaying content information on-screen

#### BD DVD AVCHD MOVIE

1. While playback, press INFO/DISPLAY ( ) to show various playback information.



- 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
- Movie Information Select this option and press ENTER (♠) to display movie information from Gracenote Media Database (BD-ROM/ DVD only).

- 2. Select an option using  $\Lambda/V$ .
- 3. Use </> to adjust the selected option value.
- 4. Press BACK( ) to exit the On-Screen display.



#### 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 use the [Movie Information] option, the player must be connected to the broadband internet for accessing the Gracenote Media
- LG is a licensee of Gracenote technology and is not responsible or liable for information from the Gracenote Media Database

# Playing from selected time

# BD DVD AVCHD MOVIE

- 1. Press INFO/DISPLAY ( ) during playback. The time search box shows the elapsed playing
- 2. 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.
- 3. Press ENTER (**②**) 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.

# Hearing a different audio

# BD DVD AVCHD MOVIE

- 1. During playback, press INFO/DISPLAY ( ) to display the On-Screen display.
- 2. Use  $\Lambda/V$  to select the [Audio] option.
- 3. Use </> to select desired audio language, audio track or audio channel.



#### Note

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

# Selecting a subtitle language

## BD DVD AVCHD MOVIE

- 1. During playback, press INFO/DISPLAY (□) to display the On-Screen display.
- 2. Use  $\Lambda/V$  to select the [Subtitle] option.
- 3. Use </> to select desired subtitle language.
- 4. Press BACK( ) to exit the On-Screen display.



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.

# 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/DISPLAY (□) to display the On-Screen display.
- 2. Use  $\Lambda/V$  to select the [Angle] option.
- 3. Use </> to select desired angle.
- 4. Press BACK( ) to exit the On-Screen display.

# Changing the TV Aspect Ratio

## BD DVD AVCHD MOVIE

You can change the TV aspect ratio setting while playback.

- 1. During playback, press INFO/DISPLAY ( ) to display the On-Screen display.
- Use Λ / V to select the [TV Aspect Ratio] option.
- 3. Use </> to select desired option.
- 4. Press BACK( ) to exit the On-Screen display.



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

# Changing the Picture Mode

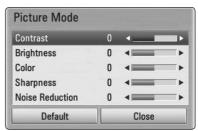
# BD DVD AVCHD MOVIE

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

- 1. During playback, press INFO/DISPLAY (□) to display the On-Screen display.
- 2. Use  $\Lambda/V$  to select the [Picture Mode] option.
- 3. Use </> to select desired option.
- 4. Press BACK( ) to exit the On-Screen display.

# Setting the [User setting] option

- 1. During playback, press INFO/DISPLAY ( ) to display the On-Screen display.
- 2. Use  $\Lambda/V$  to select the [Picture Mode] option.
- 3. Use </> to select the [User setting] option, and press ENTER (♠).



- 4. Use  $\Lambda/V/</>$  to adjust the [Picture Mode] options.
  - Select [Default] option then press ENTER (**②**) to reset the all video adjustments.
- 5. Use  $\Lambda/V/\langle \rangle$  to select the [Close] option, and press ENTER (**②**) to finish setting.

# 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/DISPLAY ( ) to display the playback menu.
- 2. Use  $\Lambda/V$  to select the [Code Page] option.
- 3. Use </> to select desired code option.



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

# Copying



#### 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

# Copying file(s)/folder(s) to the internal hard disk drive

You can copy audio, photo, video file(s)/folder(s) from disc, USB or network device to the internal hard disk drive

- 1. Press HOME (1).
- 2. Select [Movie], [Photo] or [Music] using </> and press ENTER (
  ).
- 3. Select the [Disc], [USB] or a network device using  $\Lambda / V$ , and press ENTER ( $\odot$ ).
- 4. Use  $\Lambda/V/\langle/\rangle$  to select a directory that files or folders you want to copy are located.
- 5. Press INFO/DISPLAY (□) to display the option
- 6. Use  $\Lambda/V$  to select [Copy] option, and press ENTER (**②**) to display the [Copy] menu.
- 7. Use  $\Lambda / V$  to select a file or a folder you wish to copy on the menu, and press ENTER (②).
  - Repeat this step to select files and folders as many as you can.





- 8. Use  $\bigwedge/V/</>$  to select [Start], and press ENTER ( $\odot$ ).
- Use \(\Lambda/\V/</>)\) to select the destination folder to be copied.

If you want to create a new folder, use  $\Lambda/V/$  /> to select [New Folder] and press ENTER
( $\bigcirc$ ).

10. Use **∧/V/</>** to select [OK], and press ENTER (**②**) to start copying.





Copying speed may vary depending on the file size, number of files and network condition.

# Copying file(s)/folder(s) from the internal hard disk drive to a USB storage device

You can copy audio, photo, video file(s)/folder(s) from the internal hard disk drive to a USB storage device.

- 1. Insert a USB device to the USB port until it fits into place.
- 2. Press HOME (1).
- Select [Movie], [Photo] or [Music] using </>, and press ENTER (♠).
- Select the [HDD] using ∧ / V, and press ENTER
   (③).
- 5. Use \(\Lambda/\V/</>\) to select a directory that files or folders you want to copy are located.
- 6. Press INFO/DISPLAY ( ) to display the option menu.
- 7. Use **∧ / V** to select [Copy] option, and press ENTER (**⊙**) to display the [Copy] menu.
- Use ∧ / V to select a file or a folder you wish to copy on the menu, and press ENTER (●).
   Repeat this step to select files and folders as many as you can.



| Select All | Select all the files and folders on the current directory.         |
|------------|--|
| All Type   | Shows all type of files on the screen.<br>(Movie, Photo and Music) |
| Cancel     | Cancels the copying and returns to the previous screen.            |

- 9. Use  $\Lambda/V/\langle \rangle$  to select [Start], and press ENTER (

  ).
- 10. Use  $\Lambda/V/</>$  to select the destination folder to be copied.

If you want to create a new folder, use  $\Lambda/V/$ </> to select [New Folder] and press ENTER (**②**).

11. Use  $\Lambda/V/</>$  to select [OK], and press ENTER (**③**) to start copying.



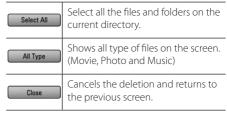
- Note
- Copying speed may vary depending on the file size, number of files and network condition.
- This function is not available in photo library mode or music library mode.

# Deleting file(s)/folder(s)

You can delete file(s)/folder(s) from the internal hard disk drive.

- 1. Use  $\Lambda/V/</>$  to select a directory that files or a folders you want to delete are located.
- 2. Press INFO/DISPLAY ( ) to display the option
- 3. Use  $\Lambda/V$  to select [Delete] option, and press ENTER (**②**) to display the [Delete] menu.
- 4. Use  $\Lambda/V$  to select a file or a folder you wish to delete on the menu, and press ENTER (②). Repeat this step to select files and folders as many as you can.



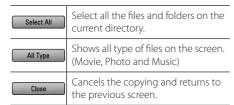


- 5. Use  $\Lambda/V/\langle/>$  to select [Start], and press ENTER (1).
- 6. Use </> to select [OK], and press ENTER (**O**) to delete the selected files and folders.

# Moving file/folder

You can move files or folders in the internal hard disk drive to the other directory.

- 1. Use  $\Lambda/V/</>$  to select a directory that files or a folders you want to move are located.
- 2. Press INFO/DISPLAY ( ) to display the option menu.
- 3. Use **∧ / V** to select [Move] option, and press ENTER (**⊙**) to display the [Move] menu.
- Use ∧ / V to select a file or a folder you wish to move on the menu, and press ENTER (⑤).
   Repeat this step to select files and folders as many as you can.



- 5. Use  $\bigwedge/V/</>$  to select [Start], and press ENTER ( $\odot$ ).
- 6. Use **∧/V/</>** to select the destination folder to be moved.
- 7. Use  $\Lambda/V/</>$  to select [OK], and press ENTER ( $\odot$ ) to start copying.



#### Note

This function is not available in photo library mode or music library mode.

# Naming a file/folder

You can re-name a file or a folder in the internal hard disk drive

- 1. Select a file or a folder contained in the internal hard disk drive.
- 2. Press INFO/DISPLAY ( ) to display the option menu.
- Use ∧ / V to select [Rename] option, and press ENTER (♠) to display the virtual keyboard.
   Enter a new name using virtual keyboard, and press ENTER (♠) while [OK] is selected.



#### Note .

- A just archived audio file(s) from an audio CD may be unable to be renamed for a while.
- This function is not available in photo library mode or music library mode.

# **Audio CD Archiving**

You can record one desired track or all of the tracks in Audio CD to the internal hard disk drive or a USB storage device.

- 1. Press OPEN/CLOSE(♠), and place an Audio CD on the disc tray.
  - Press OPEN/CLOSE(♠) to close the disc tray. The playback starts automatically.
- 2. Press INFO/DISPLAY ( ) to display the option
- 3. Use  $\Lambda/V$  to select [CD Archiving] option, and press ENTER (**②**) to display the [CD Archiving]
- 4. Use  $\Lambda/V$  to select a track you wish to copy on the menu, and press ENTER (**②**).

Repeat this step to select tracks as many as you can.



| Select All | Selects all the tracks on an Audio CD.   |
|------------|--|
| Option     | Selects an encoding option from<br>the pop-up menu (128kbps,<br>192kbps, 320kbps or Lossless). |
| Close      | Cancels the recording and returns to the previous screen.                                      |

- 5. Use  $\Lambda/V/\langle/\rangle$  to select [Start], and press ENTER (

  ).
- 6. Select the [USB] or [HDD] option using  $\Lambda/V$ , and press ENTER (**②**).

This step is needed only when a USB storage device is connected

7. Use  $\Lambda/V/</>$  to select a destination folder to be copied, and press ENTER (②).



If you want to create a new folder, use  $\Lambda/V/</>$  to select [New Folder] and press ENTER (1).

- 8. Use  $\Lambda/V/</>$  to select [OK], and press ENTER (**③**) to start Audio CD archiving. If you want to stop in progressing Audio CD archiving, press ENTER (**②**) while [Cancel] is highlighted.
- 9. A message appears when Audio CD archiving is completed.

Press ENTER ( ) to check the audio file created in the destination folder



#### Note -

• The table below shows the average recording time from an audio track with 4 minutes of playback time to an audio file with 192kbps as an example.

| Status<br>Device | stop<br>mode | while<br>playback |
|------------------|--------------|-------------------|
| Internal HDD     | 15 sec.      | 23 sec.           |
| USB              | 1.4 min.     | 2 min.            |

- All times in the above table 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 50MB free space is needed when recording into the USB storage device.
- The length of the music should be longer than 20 seconds for the proper recording.
- Do not turn off this player or extract the connected USB storage device during CD archiving.

# Viewing information from Gracenote Media **Database**

The player can access the Gracenote Media Database and loads the music information so that Track name, Artist Name, Genre and other text information can be displayed on the list.

#### Audio CD

When you insert an Audio CD, the player starts playback automatically and load the music title from the Gracenote Media Database.

If there is no music information from the database. music titles will not appear on the screen.

#### Audio file

- 1. Select an audio file or audio track using ∧/V/</>.
- 2. Press INFO/DISPLAY ( ) to display the option
- 3. Select the [Information] option using  $\Lambda/V$ , and press ENTER (**②**).

The player accesses to Gracenote Media Database for the music information.

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

While listening to a music from the movie being played, press MUSIC ID to start loading the music information from the Gracenote Media Database.



#### Note

- The player must be connected to the broadband internet for accessing the Gracenote Media Database.
- If the music information is not in the Gracenote Media Database, message appears on the screen.
- Depending on the cases, it will takes a few minutes to load music information from the Gracenote Media Database
- Information may be displayed in broken letters, if the language you selected is not available on the Gracenote Media Database.
- This function is not available for on-line content and content in DI NA servers.
- LG is a licensee of Gracenote technology and is not responsible or liable for information from the Gracenote Media Database.
- Audio CDs that users made for their only private purposes cannot be supported in this feature because they are not in the Gracenote Media Database.

# Using the Premium

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

- 1. Check the network connection and settings (page 20).
- 2. Press HOME (1).
- Select [Premium] using </>, and press ENTER
   (♠).



Select an on-line service using ∧/V/</>, and press ENTER (**②**).



- Detailed information of each service, contact to the content provider or visit suppot 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 upto-date information.
- Using Premium features with wireless network connection may result in improper streaming speed by interference from household devices that are using radio frequencies.
- When you are first time to access [Premium] or [LG Apps] feature, current country setting appears. If you want to change the country setting, select [Edit] and press ENTER (♠).

# Using the LG Apps

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

Depending on the region, the LG Apps service may not be available at the moment. The service will become available in these regions through at software update.

- 1. Check the network connection and settings (page 20).
- Press HOME ( ).
- 3. Select the [LG Apps] using </>, and press ENTER (•).



- Select a category using </>

   , and press ENTER
   (♠).
- Use ∧/V/</> to select an application, and press ENTER (**②**) to display the information.
- Press ENTER (②) 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 58 for more information of signning in.

- 7. Press yellow (Y) colored button to display the [My Apps] screen.
- 8. Select the installed application and press ENTER (③) to excute it.



To install a paid application, you need to be a paid member. Visit <u>www.lgappstv.com</u> for more information

## Signing in

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

- 1. On the [LG Apps] or [My Apps] screen, press red (R) colored button.
- 2. Fill the [ID] and [Password] field using the virtual keyboard.
  - If you do not have an account, press red (R) colored button to register.
- 3. Use  $\Lambda/V/</>$  to select [OK], and press ENTER (**②**) 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.



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

# Managing my Apps

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

#### Move an application

- 1. Select an application, and press green (G) colored button to display the options.
- 2. Use  $\Lambda/V$  to select [Move], and press ENTER(**②**).
- 3. Use  $\Lambda/V/</>$  to select a position you want to move to, and press ENTER (**②**).

#### Delete an application

- 1. Select an application, and press green (G) colored button to display the options.
- 2. Use  $\Lambda/V$  to select [Delete], and press  $ENTER(\mathbf{\Theta}).$
- 3. Use </> to select [Yes], and press ENTER (②) to confirm.

# **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.                              | <ul> <li>Insert a playable disc. (Check the disc type, color system, and regional code.)</li> <li>Place the disc with the playback side down.</li> <li>Place the disc on the disc tray correctly inside the guide.</li> <li>Clean the disc.</li> <li>Cancel the Rating function or change the rating level.</li> </ul> |  |  |  |  |
| The angle cannot be changed.                                   | Multi-angles are not recorded on the DVD Video being played.   |  |  |  |  |
| Cannot play video, photo or audio files.                       | <ul> <li>The files are not recorded in a format that the unit can play.</li> <li>The unit does not support the codec of the Video file.</li> </ul>   |  |  |  |  |
| The remote control does not work properly.                     | <ul> <li>The remote control is not pointed at the remote sensor of the unit.</li> <li>The remote control is too far from the unit.</li> <li>There is an obstacle in the path of the remote control and the unit.</li> <li>The batteries in the remote control are exhausted.</li> </ul>                                |  |  |  |  |
| The unit is plugged in, but the power will not turn on or off. | You can reset the unit as follows.  1. Press and hold the POWER button for at least five seconds. This will  |  |  |  |  |
| The unit is not operating normally.                            | force the unit to power off then turn the unit back on.  2. Unplug the power cord, wait at least five seconds, and then plug it in again.  |  |  |  |  |

# **Network**

| Symptom  | Cause & Solution   |
|--|--|
| BD-Live feature does not work.   | <ul> <li>The connected USB storage may not have enough space. Connect the USB storage with at least 1GB free space.</li> <li>Ensure that the unit is correctly connected to the local area network and can access the internet (see page 20).</li> </ul>   |
|  | Your broadband speed may not fast enough to use the BD-Live<br>features. Contact your Internet Service Provider (ISP) and increase the<br>broadband speed is recommended.  |
|  | The [BD-LIVE connection] option in the [Setup] 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<br>video services. Contact your Internet Service Provider (ISP) and<br>increase the broadband speed is recommended.  |
| Shared folder or files from your PC or a media server 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 PC or media server.   |
|  | The player is not connected to the local area network that your PC or<br>the media server are connected.   |
| Cannot connect the player to the access point or wireless LAN router.                            | The wireless communication may be interrupted from household<br>devices that are using radio frequencies. Move the player away from<br>them.   |
| Access point is not displayed on the "Access point name" list.                                   | <ul> <li>The access point or wireless LAN router may not broadcast its SSID. Set your access point to broadcast its SSID through your computer.</li> <li>Your network device such as access point may not set with available frequency range and channel that this player supports.         Try setting the frequency range and channel on the network device setting.     </li> </ul> |

#### **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 [HDMl Color Setting] in the [Setup] 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<br>not support copyright protection.                    |
| Picture noise appears.                             | You are playing a disc recorded in a color 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 [Setup] 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 <a href="http://us.lgservice.com">http://us.lgservice.com</a> or contact LG Electronics customer care center.

# Open source software notice

To obtain the corresponding source code under GPL, LGPL and other open source licenses, please visit <a href="http://opensource.lge.com">http://opensource.lge.com</a>. 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.   |
| AV/INPUT          | Switch the TV's input source between the TV and other input sources. |
| PR/CH <b>//</b> V | Scan up or down through memorized channels.                          |
| VOL +/-           | Adjust the volume of the TV  |



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 (1) (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 displays it next booting.  |  |
| [Hide]   | Exits the update menu and it does not appear until next software is uploaded in the update server. |  |

## Option 2:

If the software update is available from the update server, the "Update" icon appears in the Home menu. Press blue (B) colored 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 20).
- 2. Select [Software] option in the [Setup] menu then press ENTER (**③**).
- 3. Select [Update] option, and press ENTER (②).



The player will check for the newest update.



#### Note

- Pressing ENTER (**②**) while checking for the update will end the process.
- If there is no update available, the Message, "No update is found." appears. Press ENTER (**(O)**) to return to the [Home Menul.

- 4. If newer version exists, the message "Do you want to update?" appears.
- 5. Select [OK] to start update. (Selecting [Cancel] will end the update.)



#### 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.

- 6. When update is completed, the message, "Update is complete." will appear, and then power will turn off automatically after 5 seconds.
- 7. 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 Center then update your player. Refer to "Customer Support" on page 61.

# **About Nero** MediaHome 4 **Essentials**

Nero MediaHome 4 Essentials is a software for sharing video, music and photo files stored on your computer to this player as a DLNA-compatiable digital media server.



#### Note

- The Nero MediaHome 4 Essentials CD-ROM is designed for PCs and should not be inserted in this player or in any product other than a PC.
- The supplied Nero MediaHome 4 Essentials CD-ROM is a customized software edition only for sharing files and folders to this player.
- The supplied Nero MediaHome 4 Essentials software does not support following functions: Transcoding, Remote UI, TV control, Internet services and Apple iTunes
- This manual explains operations with the English version of Nero MediaHome 4 Essentials as examples, Follow the explanation referring to the actual operations of your language version.

# Installing Nero MediaHome 4 **Essentials**

Before you install Nero MediaHome 4 Essentials, check the system requirement shown below.

- Windows® XP (Service Pack 2 or higher), Windows Vista® (no Service Pack required), Windows® XP Media Center Edition 2005 (Service Pack 2 or higher), Windows Server® 2003
- Windows Vista® 64-bit edition (application runs in 32-bit mode)
- Windows® 7 64-bit edition (application runs in 32-bit mode)
- Hard drive space: 200 MB hard drive space for a typical installation of Nero MediaHome standalone
- 1.2 GHz Intel® Pentium® III or AMD Sempron<sup>™</sup> 2200+ processors

- Memory: 256 MB RAM
- Graphics card with at least 32 MB video memory, minimum resolution of 800 x 600 pixels, and 16bit color settings
- Windows® Internet Explorer® 6.0 or higher
- DirectX® 9.0c revision 30 (August 2006) or higher
- Network environment: 100 Mb Ethernet, WLAN

Start up your computer, and insert the supplied CD-ROM disc into your computer's CD-ROM drive. An installation wizard will walk you through the quick and uncomplicated installation process. To install Nero MediaHome 4 Essentials, proceed as follows:

- 1. Close all Microsoft Windows programs and exit any anti-virus software that may be running.
- 2. Insert the supplied CD-ROM disc into your computer's CD-ROM drive.
- 3. Click [Nero MediaHome 4 Essentials].
- 4. Click [Run] to start installation.
- Click [Nero MediaHome 4 Essentials]. The installation is prepared and the installation wizard appears.
- Click the [Next] button to display the serial number input screen. Click [Next] to go to the next step.
- If you accept all conditions, click [I accept the License Conditions] check box and click [Next]. Installation is not possible without this agreement.
- 8. Click [Typical] and click [Next]. The installation process is started.
- If you want to take part in the anonymous collection of data, select the check box and click the [Next] button.
- 10. Click the [Exit] button to complete the installation

## Sharing files and folders

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

This parts explains the procedure for selecting the shared folders on your computer.

- Double-click the "Nero MediaHome 4 Essentials" icon on the desktop.
- Click [Network] icon on the left and define your network name in the [Network name] field. The Network name you enter will be recognized by your player.
- 3. Click [Shares] icon on the left.
- 4. Click [Local Folders] tab on the [Shares] screen.
- 5. Click [Add] icon to open the [Browse Folder] window.
- Select the folder containing the files you want to share. The selected folder is added to the list of shared folders.
- 7. Click [Start Server] icon to start the server.



- If the shared folders or files are not displayed on the player, click the folder on the [Local Folders] tab and click [Rescan Folder] at the [More] button.
- Visit <u>www.nero.com</u> for more information and software tools

# **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        | ВО   | 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      |      | Vietnam         | VN   |
| Ecuador        | EC   | Luxembourg    | LU   | Federation   | RU   | Zimbabwe        | ZW   |
| Egypt          | EG   | Malaysia      | MY   | Saudi Arabia | SA   |                 |      |
| El Salvador    | SV   | Maldives      | MV   | Senegal      | SN   |                 |      |
| Ethiopia       | ET   | Mexico        | MX   |              |      |                 |      |

# Language code List

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

| Language        | Code | Language         | Code | Language       | Code | Language   | Code |
|-----------------|------|------------------|------|----------------|------|------------|------|
| Afar            | 6565 | French           | 7082 | Lithuanian     | 7684 | Sindhi     | 8368 |
| Afrikaans       | 6570 | 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 |                |      |            |      |
| LII II II 51 1  | /0/3 |                  |      |                |      |            |      |

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# **Audio Output Specifications**

| Jack/Setting              | Analog     | Digital Output (SPDIF) (DIGITAL AUDIO OUT) *4 |                    |                   |  |
|---------------------------|------------|---|--------------------|-------------------|--|
| Source                    | 2CH Output | PCM Stereo                                    | DTS Re-encode*3 *5 | Primary Pass-Thru |  |
| Dolby Digital             | PCM 2ch    | PCM 2ch                                       | DTS                | Dolby Digital     |  |
| <b>Dolby Digital Plus</b> | PCM 2ch    | PCM 2ch                                       | DTS                | Dolby Digital     |  |
| Dolby TrueHD              | PCM 2ch    | PCM 2ch                                       | DTS                | Dolby Digital     |  |
| DTS                       | PCM 2ch    | PCM 2ch                                       | DTS                | DTS               |  |
| DTS-HD                    | PCM 2ch    | PCM 2ch                                       | DTS                | DTS               |  |
| Linear PCM 2ch            | PCM 2ch    | PCM 2ch                                       | DTS                | PCM 2ch           |  |
| Linear PCM 5.1ch          | PCM 2ch    | PCM 2ch                                       | DTS                | PCM 2ch           |  |
| Linear PCM 7.1ch          | PCM 2ch    | PCM 2ch                                       | DTS                | PCM 2ch           |  |

| Jack/Setting       | HDMI OUT   |                 |                    |                            |  |
|--------------------|------------|-----------------|--------------------|----------------------------|--|
| Source             | PCM Stereo | PCM Multi-Ch *3 | DTS Re-encode*3 *5 | Primary Pass-Thru *1 *2 *3 |  |
| Dolby Digital      | PCM 2ch    | PCM 5.1ch       | DTS                | Dolby Digital              |  |
| Dolby Digital Plus | PCM 2ch    | PCM 7.1ch       | DTS                | Dolby Digital Plus         |  |
| Dolby TrueHD       | PCM 2ch    | PCM 7.1ch       | DTS                | Dolby TrueHD               |  |
| DTS                | PCM 2ch    | PCM 5.1ch       | DTS                | DTS                        |  |
| DTS-HD             | PCM 2ch    | PCM 7.1ch       | DTS                | DTS-HD                     |  |
| Linear PCM 2ch     | PCM 2ch    | PCM 2ch         | DTS                | Linear PCM 2ch             |  |
| Linear PCM 5.1ch   | PCM 2ch    | PCM 5.1ch       | DTS                | Linear PCM 5.1ch           |  |
| Linear PCM 7.1ch   | PCM 2ch    | 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 (SPDIF)] or [HDMI] option is set to [Primary Pass-Thru]. (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 [HDMI] option is set to [Primary Pass-Thru].
- \*3 The [PCM Multi-CH]/[Primary Pass-Thru] setting of the [HDMI] option and [DTS reencode] setting of the [Digital Output (SPDIF)] option cannot be set together. If you set them together, the [HDMI] or [Digital Output (SPDIF)] option is set to [PCM Stereo] automatically.
- \*4 On the PCM audio output, the sampling frequency of DIGITAL AUDIO OUT is limited to 96 kHz.

- \*5 If the [HDMI] or [Digital Output (SPDIF)] option is set to IDTS re-encodel, the audio output is limited to 48 kHz and 5.1Ch. If the [HDMI] or [Digital Output (SPDIF)] option is set to [DTS reencode], the DTS Re-encode audio is outputted for BD-ROM discs, and the original audio is outputted for the other discs (like [Primary Pass-
- If [HDMI] option is set to [PCM Multi-CH] and [Digital Output (SPDIF)] option is set to [Primary Pass-Thru] while playback Dolby Digital Plus or TrueHD audio, DIGITAL AUDIO OUT is limited to "PCM 2ch".
- 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 as PCM 48 kHz/16 bit for MP3/WMA file and PCM 44.1kHz/16 bit for Audio CD while playback.
- The Dolby TrueHD audio recorded on some Bluray discs consists of Dolby Digital and TrueHD audio. Dolby Digital audio is output through DIGITAL AUDIO OUT jacks and "DD" displays on the screen if TrueHD audio is not output (for example, when [HDMI] is set to [PCM Stereo] and [Digital Output (SPDIF)] is set to [Primary Pass-Thru]).
- You must select a digital audio output and a maximum sampling frequency that your Amplifier (or AV receiver) accepts using [Digital Output (SPDIF)], [HDMI] and [Sampling Freq.] options on the [Setup] menu (see page 28).
- With digital audio connection (DIGITAL AUDIO OUT or HDMI), Disc Menu button sounds of BD-ROM may not be heard if the [Digital Output (SPDIF)] or [HDMI] option is set to [Primary Pass-Thru].
- 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.

# **Video Output Resolution**

#### When the non-copy protected media is playing back

| Video Out     | HDMI OUT      | COMPONENT VIDEO OUT |                   |  |
|---------------|---------------|---------------------|-------------------|--|
| Resolution    | HDMI OUT      | HDMI connected      | HDMI disconnected |  |
| 480i          | 480p          | 48                  | 80i               |  |
| 480p          | 480p          | 480p                |                   |  |
| 720p          | 720p          | 720p                |                   |  |
| 1080i         | 1080i         | 10                  | 80i               |  |
| 1080p/24 Hz   | 1080p / 24 Hz | 480i                | 1080i             |  |
| 1080p / 60 Hz | 1080p / 60 Hz | 480i                | 1080i             |  |

#### When the copy protected media is playing back

| Video Out<br>Resolution | HDMI OUT      | COMPONENT VIDEO OUT |
|-------------------------|---------------|---------------------|
| 480i                    | 480p          | 480i                |
| 480p                    | 480p          | 480i                |
| 720p                    | 720p          | 480i                |
| 1080i                   | 1080i         | 480i                |
| 1080p/24 Hz             | 1080p / 24 Hz | 480i                |
| 1080p / 60 Hz           | 1080p / 60 Hz | 480i                |

#### **HDMI OUT connection**

- 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 60 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

#### COMPONENT VIDEO OUT Connection

Blu-ray Disc, DVD, Netflix or CinemaNow video stream could prevent up-scaling on analog output.

#### **VIDEO OUT connection**

The resolution of the VIDEO OUT jack is always outputted at 480i resolution.

# **Specifications**

| General                |   |  |  |  |
|------------------------|---|--|--|--|
| Power requirements     | Refer to main label on the rear panel.              |  |  |  |
| Power consumption      | 25 W  |  |  |  |
| Dimensions (W x H x D) | Approx. 430 x 59 x 249 mm (16.9 x 2.3 x 9.8 inches) |  |  |  |
| Net Weight (Approx.)   | 3 kg (6.6 lbs)                                      |  |  |  |
| Operating temperature  | 5 °C to 35 °C (41 °F to 95 °F)                      |  |  |  |
| Operating humidity     | 5 % to 90 %   |  |  |  |

| Outputs                     |  |  |  |  |
|-----------------------------|--|--|--|--|
| VIDEO OUT                   | 1.0 V (p-p), 75 Ω, sync negative, RCA jack x 1     |  |  |  |
| COMPONENT VIDEO OUT         | (Y) 1.0 V (p-p), 75 Ω, sync negative, RCA jack x 1 |  |  |  |
| COMPONENT VIDEO OUT         | (Pb)/(Pr) 0.7 V (p-p), 75 Ω, RCA jack x 2          |  |  |  |
| HDMI OUT (video/audio)      | 19 pin (Type A, HDMI™ Connector)                   |  |  |  |
| 2CH AUDIO OUT               | 2.0 Vrms (1 kHz, 0 dB), 600 Ω, RCA jack (L, R) x 1 |  |  |  |
| DIGITAL AUDIO OUT (OPTICAL) | 3 V (p-p), Optical jack x 1                        |  |  |  |
| 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 NTSC color TV system   |
| Frequency response              | 20 Hz to 20 kHz (48 kHz, 96 kHz, 192 kHz sampling)  |
| Signal-to-noise ratio           | More than 100 dB (ANALOG OUT connectors only)   |
| Harmonic distortion             | Less than 0.008%  |
| Dynamic range                   | More than 95 dB   |
| LAN port                        | Ethernet jack x 1, 10BASE-T / 100BASE-TX  |
| Hard Disk Drive                 | 250 GB (Some of the stated hard disk drive capacity is used for formatting and not available for storage.)                |
| Wireless LAN (internal antenna) | Integrated IEEE 802.11n (5 GHz and 2.4 GHz bands) wireless networking access, compatible with 802.11a/b/g Wi-Fi networks. |
| Bus Power Supply (USB)          | DC 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.

Keeping the exterior surfaces clean

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

#### 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.

## Maintaining the Unit

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

#### **Notes on Discs**

#### **Handling Discs**

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

#### Storing Discs

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

#### Cleaning Discs

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

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

# About the internal hard disk drive

The internal hard disk drive (HDD) is a fragile piece of equipment. Please use the player following the guidelines below to protect against possible HDD failure

- Do not move the player while it is on.
- Install and use a player on a stable, leveled surface.
- Do not use the player in excessively hot or humid places, or in places that may be subject to sudden changes in temperature. Sudden changes in temperature can cause condensation to form inside the player. This can be a cause of HDD failure
- While the player is powered on, do not unplug from the wall socket or switch the electricity off from the breaker switch
- Do not move the player immediately after switching it off. If you need to move the player, please follow the steps below:
  - 1. After the message "OFF" is shown in the display, wait at least two minutes.
  - 2. Unplug from the wall socket.
  - 3. Move the player.
- If there's a power failure while the player is on, there is a chance that some data on the HDD will be lost.
- The HDD is very delicate. If used improperly or in an unsuitable environment, it is possible that the HDD will fail after a few years of use. Signs of problems include playback unexpectedly freezing and noticeable block noise (mosaic) in the picture. However, sometimes there will be no warning signs of HDD failure.
- If the HDD fails, playback of content will not be possible. In this case, contact the LG service center by following methods.

Web: http://lg.com/global/support

• The manufacturer disclaims responsibility for loss of data contained in internal HDD.

# 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.

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