



ENGLISH

# SIMPLE MANUAL

## Blu-ray Disc™ Player with built-in HDD & HD Tuner

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

To view the instructions of advanced features, visit <http://www.lg.com> and then download Owner's Manual.

HR836T



MFL02320982

## Safety Information



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



This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

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

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

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

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



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

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

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

### CAUTION concerning the Power Cord

Most appliances recommend they be placed upon a dedicated circuit;

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

This device is equipped with a portable battery or accumulator.

### Safety way to remove the battery or the battery from the equipment:

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

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

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

## Notes on Copyrights

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.

## Important Notice for TV colour system

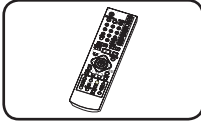
The colour system of this player differs according to currently playing discs.

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

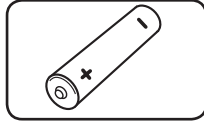
Only the multi system colour TV can receive all signals output from the player.

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

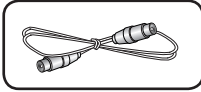
## Supplied Accessories



Remote control (1)



Battery (1)



RF cable (1)



Owner's manual

## What is SIMPLINK?



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

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

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

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

### Note

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

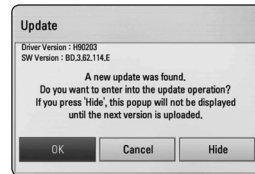
## Network Software Update

### 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** (⊙).



<b>[OK]</b>	Starts the software update.
<b>[Cancel]</b>	Exits the update menu and displays it next booting.
<b>[Hide]</b>	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) coloured button to start the update procedure.

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# Introduction

1

Getting Started

## Playable Discs and symbols used in this manual

Media/Term	Logo	Symbol	Description
Blu-ray	  		<ul style="list-style-type: none"> <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> </ul>
		  	<ul style="list-style-type: none"> <li>BD-R/RE discs that contain Movie, Music or Photo files.</li> <li>ISO 9660+JOLIET, UDF and UDF Bridge format</li> </ul>
DVD-ROM DVD-R DVD-RW DVD+R DVD+RW (8 cm, 12 cm)	    		<ul style="list-style-type: none"> <li>Discs such as movies that can be purchased or rented.</li> <li>Movie mode and finalized only</li> <li>Supports the dual layer disc also</li> </ul>
			Finalized AVCHD format
		  	<ul style="list-style-type: none"> <li>DVD±R/RW discs that contain Movie, Music or Photo files.</li> <li>ISO 9660+JOLIET, UDF and UDF Bridge format</li> </ul>
DVD-RW (VR) (8 cm, 12 cm)			VR mode and finalized only
Audio CD (8 cm, 12 cm)			Audio CD
CD-R/RW (8 cm, 12 cm)		  	<ul style="list-style-type: none"> <li>CD-R/RW discs that contain Movie, Music or Photo files.</li> <li>ISO 9660+JOLIET, UDF and UDF Bridge format</li> </ul>
–	–		Titles recorded via this unit
Note	–		Indicates special notes and operating features.
Caution	–		Indicates cautions for preventing possible damages from abuse.

## File requirement

### Movie files

File Location	File Extension	Codec Format	Audio Format	Subtitle
Disc, USB	".avi", ".divx", ".mpg", ".mpeg", ".mkv", ".mp4", ".asf", ".wmv", ".m4v" (DRM free), ".ts"	DIVX 3.11, DIVX4, DIVX5, DIVX6, XVID (standard playback only), H.264/ MPEG-4 AVC, DIVX-HD, MPEG1 SS, MPEG2 PS, MPEG2 TS	Dolby Digital, DTS, MP3, WMA, AAC, AC3	SubRip (.srt / .txt), SAMI (.smi), SubStation Alpha (.ssa/.txt), MicroDVD (.sub/.txt), VobSub (.sub), SubViewer 1.0 (.sub), SubViewer 2.0 (.sub/.txt), DVD Subtitle System (.txt)

### Music files

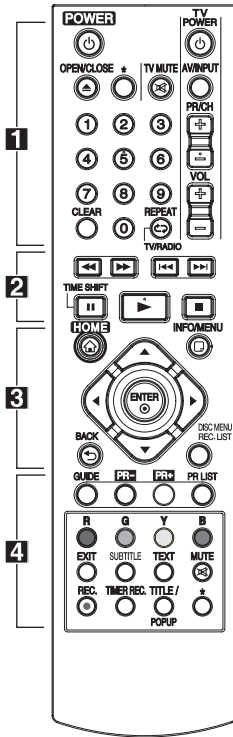
File Location	File Extension	Sampling Frequency	Bitrate	Note
Disc, USB	".mp3", ".wma", ".wav", ".m4a" (DRM free)	between 8 - 48 kHz (WMA), within 11 - 48 kHz (MP3), 44.1 and 48 kHz (LPCM)	between 8 - 320 kbps (WMA, MP3), 768 kbps and 1.536 Mbps (LPCM)	Some wav files are not supported on this player.

### Photo files

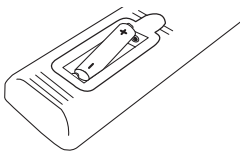
File Location	File Extension	Recommended Size	Note
Disc, USB	".jpg", ".jpeg", ".png"	Less than 4,000 x 3,000 x 24 bit/pixel Less than 3,000 x 3,000 x 32 bit/pixel	Progressive and lossless compression photo image files are not supported.

# Remote control

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Getting Started



## Battery Installation



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

..... **1** .....

**POWER** (⏻): Switches the unit ON or OFF.

**OPEN/CLOSE** (⏮): Opens and closes the disc tray.

★: Feature is not available.

**0-9 numerical buttons**: Selects numbered options in a menu.

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

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

**TV/RADIO**: Switches between TV and radio modes.

**TV Control Buttons**: Refer to the manual on supplied CD-ROM disc.

..... **2** .....

**◀/▶**: Searches backward or forward.

**◀◀/▶▶**: Goes to next or previous chapter/track/file.

**▶**: Starts playback.

**⏸**: Pauses playback or recording.

**■**: Stops playback.

**TIME SHIFT**: Activates pause live TV/playback (timeshift) for a live TV programme.

..... **3** .....

**HOME** (🏠): Accesses or removes the HOME menu.

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

**⤴ / ⤵ / ⤶ / ⤷** (left/right/up/down): Navigates on-screen displays.

**ENTER** (⊙): Acknowledges menu selection or displays the TV info.

**BACK** (⏪): Exits the menu or back to previous step.

**DISC MENU/REC.LIST**: Accesses menu on a disc or switches between recording list menu.

..... **4** .....

**GUIDE**: Displays the EPG menu.

**PR (-/+)**: Scans up or down through memorized programmes.

**PR LIST**: Displays the Channel list.

**Coloured (R, G, Y, B) buttons**: Use to navigate BD-ROM menus. They are also used for [MOVIE], [PHOTO], [MUSIC] and [DTV] menu.

**EXIT**: Exits a menu or hides on-screen information.

**SUBTITLE**: Selects a subtitle language.

**TEXT**: Switches between teletext mode and normal TV viewing.

**MUTE** (🔇): Mutes the sound.

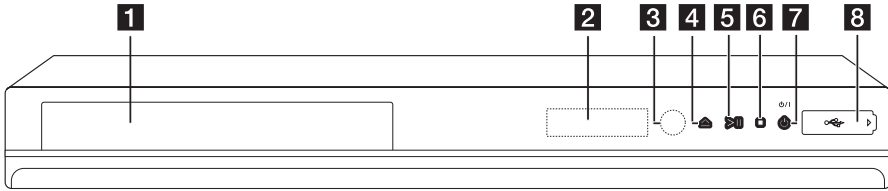
**REC.** (●): Starts recording.

**TIMER REC.**: Displays [Timer Recording] menu.

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

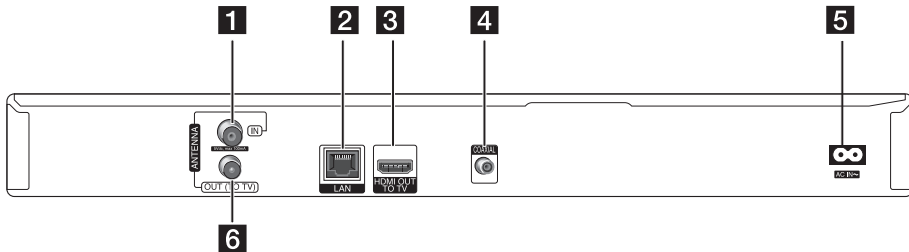


## Front panel



- 1** Disc Tray
- 2** Display window
- 3** Remote Sensor
- 4** △ (Open/Close)
- 5** >|| (Play/Pause)
- 6** □ (Stop)
- 7** ⏻/I (Power)
- 8** USB Port

## Rear panel



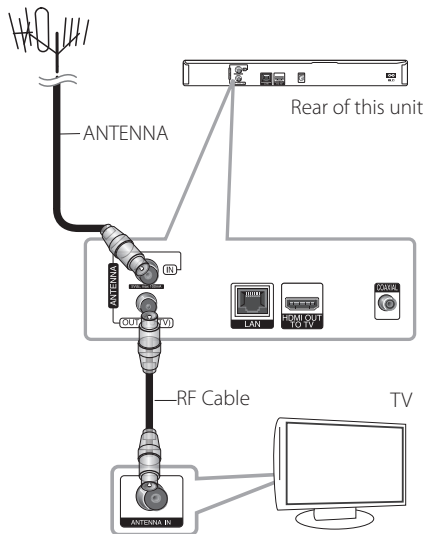
- 1** ANTENNA IN
- 2** LAN port
- 3** HDMI OUT (TO TV)
- 4** COAXIAL (DIGITAL AUDIO OUT)
- 5** AC IN connector  
Connect the supplied power cord
- 6** ANTENNA OUT (TO TV)

## Connections to Your TV

### Antenna connection to your TV and this unit

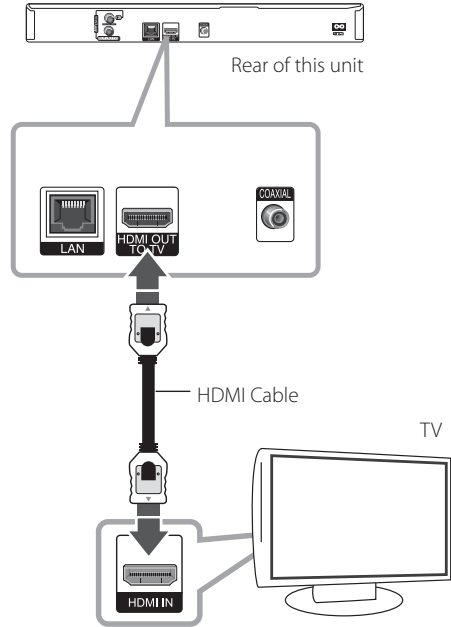
Connect one end of the RF cable to ANTENNA OUT(TO TV) jack on the unit and other end to ANTENNA IN jack on your TV. Passes the signal from the ANTENNA IN jack to your TV/monitor.

Connect the Terrestrial TV antenna to the ANTENNA IN jack on the unit. If you want to use an indoor antenna, use one with a signal amplifier rated at 5V, 100mA and set [Antenna 5V] to [ON] in the setup menu.



### HDMI Connection

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

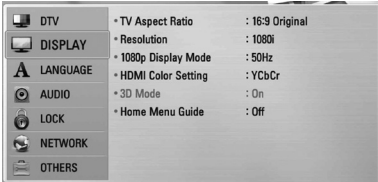


Set the TV's source to HDMI (refer to TV's Owner's manual).

## Resolution Setting

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

1. Press HOME (🏠).
2. Use ◀/▶ to select the [Setup] and press ENTER (⏻). The [Setup] menu appears.



3. Use ▲/▼ to select [DISPLAY] option then press ▶ to move to the second level.



4. Use ◀/▶ to select the [Resolution] option then press ENTER (⏻) to move to the third level.



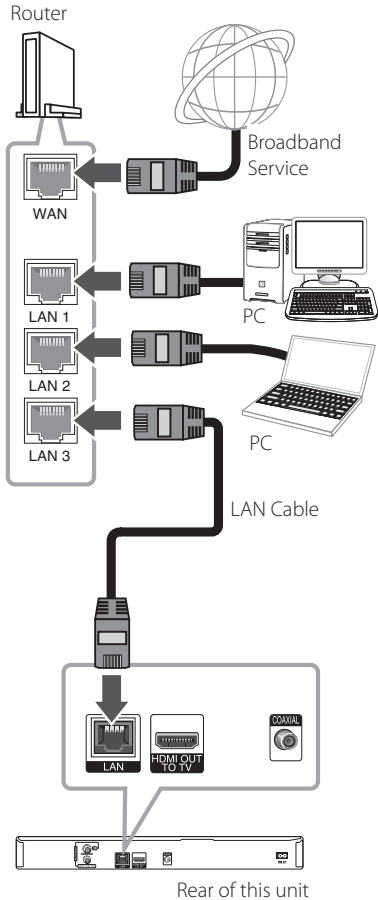
5. Use ▲/▼ to select the desired resolution then press ENTER (⏻) to confirm your selection.

### ! Note

- If your TV does not accept the resolution you have set on the player, you can set resolution to 576p as follows:
  1. Press ▲ to open the disc tray.
  2. Press ■ (STOP) for more than 5 seconds.

## Wired network connection

Connect the unit's LAN port to the corresponding port on your Modem or Router using a commercially available LAN or Ethernet cable (CAT5 or better with RJ45 connector). In the example configuration for wired connection below, this player would be able to access content from either of the PCs.



## 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.

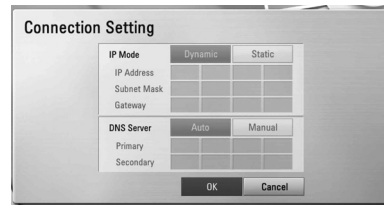
### Preparation

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 (⊙).



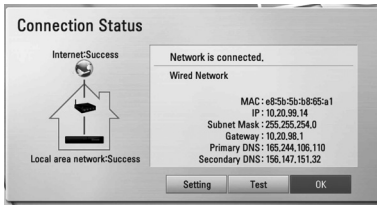
2. Use ▲/▼/◀/▶ to select the IP mode between [Dynamic] and [Static]. Normally, select [Dynamic] to allocate an IP address automatically.



### 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 ▲/▼/◀/▶ and numerical buttons. If you make a mistake while entering a number, press CLEAR to clear the highlighted part.

3. Select [OK] and press ENTER (⊙) to apply network settings.
4. The player will ask you to test the network connection. Select [OK] and press ENTER (⊙) to complete the network connection.
5. 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.

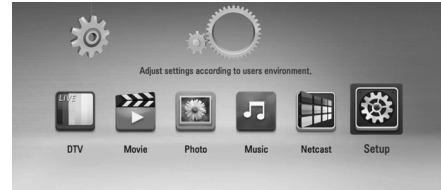


## Settings

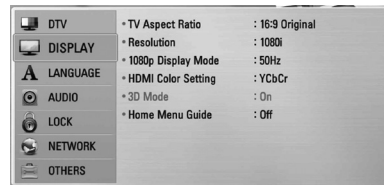
### Adjust the Setup Settings

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

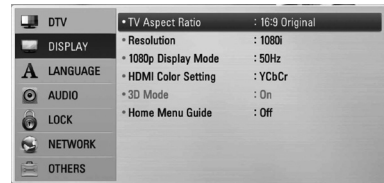
1. Press HOME (🏠).



2. Use ◀/▶ to select [Setup] and press ENTER (⊙). The [Setup] menu appears.



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



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



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

## General Playback

### Using [HOME] menu

To access numerous functions of the unit, press HOME on the remote.

HOME: Accesses or removes the Home Menu.

◀/▶: Used to navigate on-screen displays.

ENTER (⊙): Acknowledges menu selection.

BACK (⏪): Exits the menu.



#### DTV

You can watch digital broadcasts.

#### Movie

Starts video media's playback or displays the [MOVIE] menu.

#### Photo

Displays [PHOTO] menu.

#### Music

Displays [MUSIC] menu.

#### Netcast

Shows YouTube videos, Picasa Web Albums and Accu Weather streamed from the Youtube server via the internet to your TV.

#### Setup

Displays [Setup] menu.

### Playing a Disc

#### BD DVD ACD

1. Press ▲ (OPEN/CLOSE), and place a disc on the disc tray.
2. Press ▲ (OPEN/CLOSE) to close the disc tray.  
For the most Audio CD, BD-ROM and DVD-ROM discs, playback starts automatically.
3. Press HOME (🏠).
4. Select [Movie] or [Music] using ◀/▶, and press ENTER (⊙).
5. Select [BD], [DVD], [VR] or [Audio] option using ▲/▼, and press ENTER (⊙).

#### ! Note

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

### Playing a file on disc/USB device

#### MOVIE MUSIC PHOTO

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

1. Insert a data disc on the tray or connect a USB device.
2. Press HOME (🏠).
3. Select [Movie], [Photo] or [Music] using ◀/▶, and press ENTER (⊙).
4. Select [Data] or [USB] option using ▲/▼, and press ENTER (⊙).
5. Select a file using ▲/▼/◀/▶, and press ▶(PLAY) or ENTER (⊙) 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 ⏸ (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 ◀◀ or ▶▶ to go to the next chapter/track/file or to return to the beginning of the current chapter/track/file.

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

## On-Screen display

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



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

2. Select an option using ▲/▼.
3. Use ◀/▶ to adjust the selected option value.
4. Press BACK (⏪) to exit the On-Screen display.

#### ! Note

- A title number cannot be selected on some discs.
- Available items may differ depending on discs or titles.

# Troubleshooting

## General

Symptoms	Cause & Solution
The Power does not turn on.	<ul style="list-style-type: none"> <li>Plug the power cord into the wall outlet securely.</li> </ul>
The unit does not start playback.	<ul style="list-style-type: none"> <li>Insert a playable disc. (Check the disc type, color system, and regional code.)</li> <li>Place the disc with the playback side down.</li> <li>Place the disc on the disc tray correctly inside the guide.</li> <li>Clean the disc.</li> <li>Cancel the Rating function or change the rating level.</li> </ul>
The angle cannot be changed.	<ul style="list-style-type: none"> <li>Multi-angles are not recorded on the DVD Video being played.</li> </ul>
Cannot play movie, photo or audio files.	<ul style="list-style-type: none"> <li>The files are not recorded in a format that the unit can play.</li> <li>The unit does not support the codec of the movie file.</li> </ul>
The remote control does not work properly.	<ul style="list-style-type: none"> <li>The remote control is not pointed at the remote sensor of the unit.</li> <li>The remote control is too far from the unit.</li> <li>There is an obstacle in the path between the remote control and the unit.</li> <li>The batteries in the remote control are exhausted.</li> </ul>

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Troubleshooting

## Recording

Symptom	Cause & Solution
Cannot record or does not record successfully.	<ul style="list-style-type: none"> <li>Check the remaining space on the HDD.</li> <li>If your source is copy-protected, you cannot record it using this recorder.</li> <li>If you set a DTV rating for the recorder and higher rated digital programs are received, the programme cannot be recorded. Change the DTV rating level in order to record it.</li> </ul>
Timer record does not record successfully.	<ul style="list-style-type: none"> <li>Clock is not set to correct time.</li> <li>The start time of the timer recording is past.</li> <li>When setting the recording programme, make sure you set the recorder's built-in tuner, not the TV's built-in tuner.</li> <li>If the HDD is damaged, the recording may not complete successfully.</li> </ul>
You cannot enter a timer programme when.	<ul style="list-style-type: none"> <li>The time you're trying to set has already passed.</li> <li>There are already 32 timer programs set.</li> <li>In case of changing broadcasting time depending on circumstances.</li> </ul>
If two or more timer programs overlap.	<ul style="list-style-type: none"> <li>The earlier programme takes priority.</li> </ul>



## Picture

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

## Sound

Symptom	Cause & Solution
There is no sound or the sound is distorted.	<ul style="list-style-type: none"> <li>• Connect the audio connection securely.</li> <li>• The input source setting on the amplifier or the connection to the amplifier is incorrect.</li> <li>• The unit is in scan, slow motion, or pause mode.</li> <li>• The sound volume is low.</li> <li>• Check that the connected amplifier is compatible with the audio format output from the player.</li> <li>• The player's HDMI OUT jack is connected to a DVI device. The DVI jack does not accept audio signal.</li> <li>• Check the device connected to the player's HDMI OUT jack is compatible with the audio format output from the unit.</li> </ul>

## Network

Symptom	Cause & Solution
BD-LIVE feature does not work.	<ul style="list-style-type: none"> <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.</li> <li>• Your broadband speed may not be fast enough to use the BD-Live features. Contact your Internet Service Provider (ISP) and increase the broadband speed to suit the unit's requirements.</li> <li>• The [BD-LIVE connection] option in the [Setup] menu is set to [Prohibited]. Set the option to [Permitted].</li> </ul>
Streaming video services (such as YouTube™, etc.) are often stop or "buffer" during playback.	<ul style="list-style-type: none"> <li>• Your broadband service speed may not be fast enough to stream video services. Contact your Internet Service Provider (ISP) and increase the broadband speed is recommended.</li> </ul>

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## Customer Support

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

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## Specifications

General	
Power requirements	AC 200-240 V, 50/60 Hz
Power consumption	30 W
Dimensions (W x H x D)	Approx. 430 x 59.5 x 300 mm without foot
Net Weight (Approx.)	3.02 kg
Operating temperature	5 °C to 35 °C
Operating humidity	5 % to 90 %
Television system:	DVB-T Standard Compliant

TV Recording	
Recording format	TS (Transport Stream format)
Recordable media	Hard Disk Drive (500 GB), USB 2.0 HDD

Connectors	
HDMI OUT (video/audio)	19 pin (HDMI standard, Type A)
DIGITAL OUT (COAXIAL)	0.5 V (p-p), 75 Ω, RCA jack x 1
ANTENNA IN	Antenna input, 75 Ω
USB Port	4 pin (USB 2.0 standard)

System	
Laser	Semiconductor laser
wavelength	405 nm / 650 nm
Signal system	Standard PAL/NTSC colour TV system
Frequency response	20 Hz to 20 kHz (48 kHz, 96 kHz, 192 kHz sampling)
Signal-to-noise ratio	More than 100 dB (Analogue 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
Bus Power Supply (USB)	DC 5 V  500 mA

- Design and specifications are subject to change without notice.







