

- 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.
- Your ISP may protect this player from being connected to network when confirming MAC ADDRESS. In that case, contact your ISP to request to initialize MAC ADDRESS.

Setting the sound mode

You can select a suitable sound mode. Press SOUND repeatedly until the desired mode appears on the front panel display or the TV screen. The setting the sound mode is not available when [HDMI Audio] is set to [On] (see page 24).

[Bypass] mode: Software with multichannel surround audio signals is played according to the way it was recorded.

[Natural EQ] mode: You can enjoy comfortable and natural sound.

[Bass Booster] mode: Reinforce the treble, bass and surround sound effect.

[PL II Movie] mode: Performs Pro Logic II movie mode decoding to the input signal and produces five full-bandwidth output channels from 2 channel sources. This setting is ideal for watching videos of overdubbed or old movies.

[PL II Music] mode: Performs Pro Logic II music mode decoding to the input signal and produces five full-bandwidth output channels from 2 channel sources. This setting is ideal for normal stereo sources such as CD.

[News] mode: This mode makes voice sound clear, improving the quality of voice sound.

[Drama] mode: You can enjoy more dynamic sound with improved center channel while watching a television drama.

[Sports] mode: This mode produces dynamic sound expansion for the sports program.

[Game] mode: You can enjoy more virtual sound while playing video games.

[Concert] mode: Creates the sound of concert hall.

[Music ReTouch] mode: When listening to MP3 files or other compressed music, you can enhance the sound.

Adjust the speaker level settings

You can adjust the sound level of each speaker.

Press SPK LEVEL repeatedly to select a desired speaker to set.

Press VOL. (+/-) to adjust the sound level of the selected speaker while the level setting menu is displayed on the front panel display or the TV screen. Repeat and adjust the sound level of the other speakers.

Using the late night function

You can compress the dynamic range of the sound track.

Press NIGHT repeatedly.

This may be useful when you want to watch movies at low volumes late at night.

[NIGHT OFF]: Late night function off.

[NIGHT ON]: Reduction in dynamic range.

Notes:

- The late night function may be less effective or have no effect depending on the source.
- During the late night mode is on, the lighting of the touch buttons and the volume knob are turned off and the front panel display is dimmed.

Using the sleep timer

You can set the system to turn off at a preset time, so you can fall asleep listening to music.

- Press SLEEP repeatedly to select the desired time period options (in minutes):
(Dimmer on → Sleep timer value → Dimmer off)

Dimmer on: The lighting of the touch buttons and the volume knob are turned off and the front panel display is dimmed.

- To view the time countdown to the standby mode, press SLEEP again.

- To deactivate the sleep timer, press SLEEP until the previous status is displayed or press POWER to switch the unit to standby.

Using an USB Flash Drive

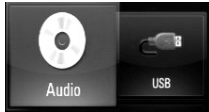
This unit can play the music and photo files contained on the USB Flash Drive.

ON REMOTE

1. Insert an USB Flash Drive to the USB port:	–
2 Displays the [Home Menu]:	HOME
3 Select a main option: [Photo] or [Music] option	◀ ▶, ENTER
4 Select the [USB] option:	◀ ▶
5 Displays corresponding menu list: [PHOTO] or [MUSIC] menu appears. Details for the menu are on pages 33-37.	ENTER

Tip:

If you select the [Photo] or [Music] option when a USB Flash Drive is connected and a disc is inserted simultaneously, the menu for selecting a media will appear. Select a media then press ENTER.



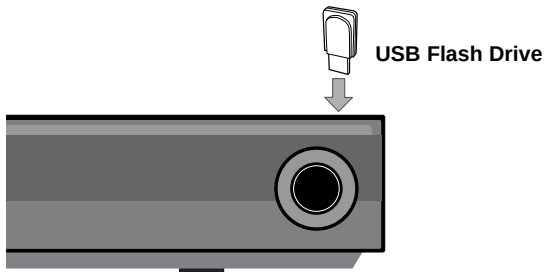
Notes:

- This unit supports only USB Flash Drive and USB External HDD with FAT16 or FAT32 format.
- The USB Flash Drive can be used for the local storage for enjoying BD-Live discs with Internet
- Do not extract the USB Flash Drive during operation (play, etc.).
- An USB Flash Drive which requires additional program installation when you have connected it to a computer is not supported.
- USB Flash Drive: USB Flash Drive that support USB1.1 and USB2.0.
- Music files (MP3/WMA) and photo files (JPEG/PNG) can be played. For details of operations on each file, refer to relevant pages.
- Regular back up is recommended to prevent data loss.
- If you use an USB extension cable or USB HUB, the USB device may not be recognized.
- Some USB Flash Drives 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.
- This unit does not support a multi card reader.
- This unit can support up to 4 partitions of the USB Flash Drive.

Insert/Remove a USB Flash Drive

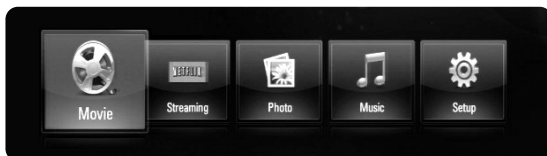
Inserting an USB Flash Drive – Insert straight-in until it fits into place.

Removing an USB Flash Drive – Withdraw the USB Flash Drive carefully.



Using the Home Menu

	ON REMOTE
1 Displays the [Home Menu]:	HOME
2 Select an option:	◀ ▶
3 Displays the selected option menu:	ENTER
4 Exit the [Home Menu]:	HOME



[Movie] – Start video media's playback or displays the [MOVIE] menu.

[Streaming] – Instantly watch some movies & TV episodes streamed from Netflix to your TV. (page 38-40)

[Photo] – Displays [PHOTO] menu. (page 36-37)

[Music] – Displays [MUSIC] menu. (page 35-36)

[Setup] – Displays the [Setup] menu. (page 21-27)

Tips:

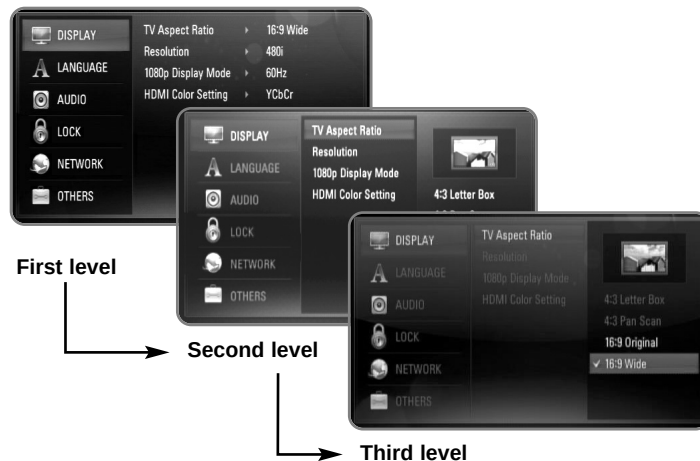
- If you select the [Photo] or [Music] option when an USB Flash Drive is connected and a disc is inserted simultaneously, the menu for selecting a media will appear. Select a media then press ENTER.
- If "Software Update" appears on the [Home Menu], it means there is a software update available via network. To update the unit, press blue (D) button. For details, see page 45.

Notes:

- The unit will be in stop mode then the [Home Menu] will appear if you press HOME during playback.
- If you insert a DVD or an unplayable disc that is formatted as ISO9660 or UDF, the [Photo] or [Music] option can be selected in the [Home Menu]. But you cannot play it.

Adjust the Setup settings

	ON REMOTE
1 Displays the [Home Menu]:	HOME
2 Select the [Setup] option:	◀ ▶, ENTER
3 Select a desired option on the first level:	▲ ▼
4 Move to second level:	▶
5 Select a desired option on the second level:	▲ ▼
6 Move to third level:	▶
7 Adjust or confirm the setting: Some items require additional steps.	▲ ▼, ENTER
8 Go back to the previous level:	◀
9 Exit the [Setup] menu:	HOME or RETURN



[DISPLAY] Menu



TV Aspect Ratio

[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 Wide] – 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 "Resolution Setting" on page 16-17 for details about the resolution.

[Auto] – If the HDMI OUT jack is connected for TVs providing display information (EDID), automatically selects the resolution best suited to the connected TV. If the COMPONENT VIDEO OUT is only connected, this changes the resolution to 1080i as default resolution.

[1080p] – Outputs 1080 lines of progressive video (only for HDMI connection).

[1080i] – Outputs 1080 lines of interlaced video.

[720p] – Outputs 720 lines of progressive video.

[480p] – Outputs 480 lines progressive video.

[480i] – Outputs 480 lines of interlaced video.

1080p Display Mode

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

Notes:

- When you select [24Hz], you may experience some picture disturbance when the video switches video and film material. In this case, select [60Hz].
- Even when [1080p Display Mode] is set to [24Hz], if your TV is not compatible with 1080/24p, the actual frame frequency of the video output will be 60Hz to match the video source format.

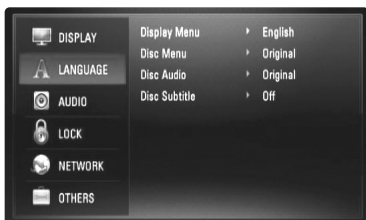
HDMI Color Setting

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 RGB display device.

[LANGUAGE] Menu



Display Menu

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

Disc Menu / Disc Audio / Disc Subtitle

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

[Original] – Refers to the original language in which the disc was recorded.

[Other] – Press ENTER to select another language. Use number buttons then ENTER to enter the corresponding 4-digit number according to the language code list on page 48.

[Off] (for Disc Subtitle) – Turn off Subtitle.

Note:

Depending on a disc, your language setting may not work for some disc.

[AUDIO] Menu



Speaker Setup

To obtain the best possible sound, use the Speaker Setup display to specify the volume of the speakers you have connected and their distance from your listening position. Use the Test to adjust the volume of the speakers to the same level.

[Speaker] – Select a speaker that you want to adjust.

[Volume] – Adjust the output level of each speaker. Be sure to set “Test” to “All” for easy adjustment.

[Distance] – Adjust the distance between each speaker and the listening position.

[Test] – The speakers will emit a test tone.

All: The test tone is emitted from each speaker in sequence.

HD Audio Effect

Selects whether to mix or not mix primary audio and secondary audio.

[Off] – Outputs the primary audio only.

[On] – Outputs the audio obtained by mixing the primary audio and secondary audio.

HD AV Sync

Sometimes Digital TV encounters a delay between picture and sound. If this happens you can compensate by setting a delay on the sound so that it effectively 'waits' for the picture to arrive: this is called HD AV Sync.

Use ▲ ▼ to scroll up and down through the delay amount, which you can set at anything between 0 and 300m sec.

The delay will vary depending on which digital TV channel you are on. If you change channel you may need to readjust the HD AV Sync.

HDMI Audio

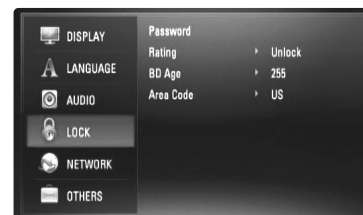
You can set the output type for the audio signal from the HDMI OUT jack.

[Off] – HDMI audio signals are output to the system speakers only.

[On] – HDMI audio signals are output from the TV's speaker and the system's speakers.

[LOCK] Menu (Parental Control)

The [LOCK] settings affect only Netflix movie, BD 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 and press ENTER. Enter it again and press ENTER to verify.

Password

You can create, change or delete the password.

[New] – Enter a 4-digit password and press ENTER. Enter it again and press ENTER to create a new password.

[Change] – Enter the current password and press ENTER.

Enter a 4-digit password and press ENTER. Enter it again and press ENTER to create a new password.

[Delete] – Enter the 4-digit password and press ENTER to delete the password.

Tip:

If you make a mistake before pressing ENTER, press CLEAR. Then input the correct 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.
- 3** Use Number buttons to enter "210499". The password is cleared.

Rating

Blocks playback of rated disc 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.

BD Age

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.

Area Code

Enter the code of the area whose standards were used to rate the DVD video disc, based on the list on page 48.

[NETWORK] Menu

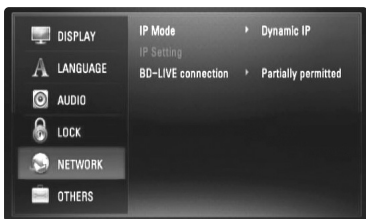
The [NETWORK] settings are needed to use the software update, BD Live and Netflix features.

Some BD-ROM discs may enable you to access special BD-ROM sites, if you connect the player to the Internet. For example, if a BD-ROM site includes content such as links to future movie trailers, you can watch the downloaded on-line content on the player.

You do not need to connect to a PC to use this function.

Preparations:

- This feature requires an always-on broadband internet connection. (see page 18-19.)
- A BD-ROM disc compatible with this feature is required. Not all BD-ROM discs are compatible.



IP Mode

If there is a DHCP server on the local area network (LAN), this player will automatically be allocated an IP address. If you're using a broadband router or broadband modem that has a DHCP (Dynamic Host Configuration Protocol) server function, select [Dynamic IP]. The IP address will automatically be determined.

If there is no DHCP server on the network and you want to set the IP address manually, select [Static IP] then set the [IP Address], [Subnet Mask], [Gateway] and [DNS Server] using [IP Setting] option.

Note:

The [IP Mode] menu shows if the internet is connected or not. “⊗” will appear when connection is failed.

How to check the network configuration

Select [IP Mode] option and check the Network status indicator shown above the menu. (The Network status indicator changes according to Network configuration.)



Able to use network



Testing Network



Unable to use network

IP Setting

This option is available only if [IP Mode] option is set to [Static IP]. Use the ▲ / ▼ / ◀ / ▶ buttons to select a field; use the number buttons to enter a value. Press ENTER when [OK] is highlighted to finish and exit the screen.

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.

[OTHERS] Menu



Skin

Changes the background of the initial screen.

Java Font Size **BD**

You can adjust the default text size displayed for the BD-J contents during BD-ROM playback.

This setting is only valid when BD-J contents do not set the size of text.

Please select a font size bigger than 24 when the player is connected with an HD TV.

Initialize

You can reset the player to its original factory settings, initialize the BD storage or deactivate the player.

[Factory Set] – If you need to, you can reset the player to all its factory settings. Some options cannot be reset. (Rating, Password and Area Code, etc.)

[BD Storage Clear] – Initializes the BD contents from the connected USB Flash Drive.

[Deactivate Netflix] – Deactivates your player. To activate the Netflix again, see page 38.

Note:

If you reset the player to its original factory settings using [Factory Set] option, Netflix is deactivated also. To activate the Netflix again, see page 38.

Software Update

You can update the software by connecting the unit directly to the software update server (see page 45).

Netflix ESN

We provide you the Netflix ESN (Electronic Serial Number) that allows you to rent and purchase videos using the Netflix website.

For more information, please visit:

www.netflix.com

Select [Netflix ESN] option and the serial number will appear.

Play a disc

	ON REMOTE
1 Open the disc tray:	OPEN/CLOSE (▲)
2 Insert a disc:	-
3 Close the disc tray:	OPEN/CLOSE (▲)
4 Adjust the disc menu settings: A disc menu may not appear on the screen depending on the disc.	▲ ▼ ◀ ▶, ENTER
5 Starts playback:	PLAY (▶)
6 Stops playback:	STOP (■)

Notes:

- When you turn on the player or replace a disc, the player returns to the initial default setting. Depending on a disc, a specific type of audio that the disc has is output.
- Depending on the pre-recorded contents of the BD-ROM, some functions may not be available or may be operated differently than other media.

If a disc menu screen is displayed

BD DVD AVCHD

The menu screen may be displayed first after loading a disc which contains a menu.

Use ◀ / ▶ / ▲ / ▼ buttons to select the title/chapter you want to view, then press ENTER to start playback.

Skip to the next/previous chapter/track/file **ALL**

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.

Resume playback **ALL**

During playback, press STOP (■) to stop playback.

The unit records the stopped point, depending on the disc. "■■■" appears on the screen briefly. Press PLAY (▶) to resume playback (from the scene point). If you press STOP (■) again or unload the disc ("■" appears on the screen.), the unit will clear the stopped point. (■■■ = Resume Stop, ■ = Complete Stop)

Notes:

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

Pause a playback **ALL**

During playback, press PAUSE (||) to pause playback. Press PLAY (▶) to continue playback.

Tip: During Audio CD or MP3/WMA playback, press || once again to resume playback.

Frame-by-Frame playback **BD DVD AVCHD**

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

Slow down the playing speed **BD DVD AVCHD**

While the playback is paused, press SCAN ▶▶ repeatedly to play in slow motion (4 steps, forward only).

Fast forward or fast reverse **ALL**

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

You can change the various playback speeds by pressing SCAN (◀◀ or ▶▶) repeatedly. Press PLAY (▶) to continue play at normal speed.

Playing repeatedly **ALL**

Press REPEAT repeatedly to select a desired repeat mode. The current title, chapter or track will be played back repeatedly. To return to normal playback, press REPEAT repeatedly to select [OFF].

Note:

If you press ►► once during Repeat Chapter/Track playback, the repeat playback cancels.

Viewing the Title menu or Popup menu

BD DVD AVCHD

Press TITLE/POPUP to display the title menu or popup menu.

If the current DVD or BD-ROM disc has a menu, the Title menu or Popup menu appears on the screen. Depending on the disc, the menu may not be available.

Using the search menu **BD DVD AVCHD**

During playback, press SEARCH to display the search menu.

Press ◀ / ▶ to skip the playback 15 seconds forward or backward.

Tip:

You can select a point that you want to skip by pressing and holding ◀ / ▶ button.

Marker Search **BD DVD AVCHD**

To enter a Marker

You can start playback from up to nine memorized points. To enter a marker, press MARKER at the desired point on the disc. The Marker icon appears on the TV screen briefly. Repeat to enter up to nine markers.

To Recall or Clear a Marked Scene

Press SEARCH and the search menu appears on the screen.

Press a number button to select a marker number that you want to recall. Playback starts from the marked scene.

OR

Press ▼ to highlight a marker number. Use ◀ / ▶ to select a marked scene that you want to recall or clear.

Press ENTER and playback starts from the marked scene. Press CLEAR and the marked scene is erased from the search menu.

Notes:

- This function may not work on some disc or titles.
- All marked points are cleared if you press STOP (■) twice (complete stop), the title is changed or if you unload the disc.

Selecting a subtitle language **BD DVD AVCHD**

During playback, press SUBTITLE repeatedly to select a desired subtitle language.

OR

During playback, press DISPLAY to display the playback menu. Use ▲ ▼ to select the [Subtitle] option then use ◀ ▶ to select desired subtitle language.

Note:

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

Hearing a different audio **BD DVD AVCHD**

During playback, press DISPLAY to display the playback menu. Use ▲ ▼ to select the [Audio] option then use ◀ ▶ to select desired audio language or audio track.

Notes:

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

Using coloured (A, B, C, D) Buttons **BD**

These buttons are available only during BD-J contents playback. Use the appropriate buttons as indicated by the display. Depending on the disc contents, the functions of each button may differ.

Last Scene Memory **BD DVD**

This unit memorizes 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.

Notes:

- Settings are stored in memory for use any time.
- This unit does not memorize settings of a disc if you switch off the unit before commencing to play it.
- 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.

Screen Saver

The screen saver appears when you leave the player in Stop mode for about five minutes.

Note:

Depending on the unit status, the screen saver may not appear.

Displaying disc information

	ON REMOTE
1 Play the disc loaded on the unit:	PLAY
2 Displays the playback menu:	DISPLAY
3 Select an item:	▲ ▼
4 Adjust the playback menu settings:	◀ ▶
5 Exit the disc playback menu:	DISPLAY



- 1 Title – Current title number/total number of titles.
- 2 Chapter – Current chapter number/total number of chapters.
- 3 Time – Elapsed playing time.
- 4 Audio – Selected audio language or channel.
- 5 Subtitle – Selected subtitle.
- 6 Angle – Selected angle/total number of angles.

Notes:

- If no button is pressed for a few seconds, the on-screen display disappears.
- A title number cannot be selected on some discs.
- An item may not be available on some discs or titles.
- If BD interactive title is playing back, some setting information is displayed on the screen but prohibited to be changed.

Moving to another title/chapter

BD DVD AVCHD

When a disc has more than one title/chapter, you can move to another title/chapter/track.

Press DISPLAY during playback then use ▲ / ▼ to select the [Title/Chapter] icon. Then, press the appropriate numbered button (0-9) or ◀ / ▶ to select a title/chapter number.

Playing from selected time **BD DVD AVCHD**

Press DISPLAY during playback. The time search box shows the elapsed playing time. 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” and press ENTER. If you enter the wrong numbers, press CLEAR and enter the correct numbers.

Note:

This function may not work on some disc or titles.

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.

During playback, press DISPLAY to display the playback menu. Use ▲ ▼ to select the [Angle] option, then use ◀ ▶ to select desired angle.

Enjoying BD-LIVE™

	ON REMOTE
1 Inserts a BD-ROM disc with BD-LIVE™ features:	OPEN/CLOSE (Δ)
2 Check the network connection and settings: BD-Live features need the internet connection.	–
3 Inserts an USB Flash Drive to the USB port: BD-Live features need an USB Flash Drive.	–
4 Select a BD-LIVE™ features on the disc menu:	▲ ▼ ◀ ▶, ENTER

This unit allows you to enjoy functions such as picture-in-picture, secondary audio and Virtual packages, etc., with BD-Video supporting BONUSVIEW (BD-ROM version 2 Profile 1 version 1.1/ Final Standard Profile). In addition to the BONUSVIEW function, BD-Video supporting BD-Live (BD-ROM version 2 Profile 2) that has a network extension function allows you to enjoy more functions such as online games by connecting this unit to the Internet.

Enjoying BD-Live discs with Internet

This unit supports BD-Live, a new BD-Video function that allows you to use the following interactive functions when connected to the Internet. (The usable functions and the operating method may vary with each disc. For details, refer to the instructions for the disc.)

- Additional contents such as movie's trailer, subtitles and BD-J, etc. can be downloaded to the USB Flash Drive to play them.
- Special video data, etc. may be played back while they are being downloaded to a USB Flash Drive.

Preparations:

- The unit must be connected to the Internet and set up to use the BD-Live functions (see page 18 and 26).
- A USB Flash Drive is required to use this function. Connect a USB Flash Drive (see page 20).
- The free space in the USB Flash Drive must be more than 1GB.

Caution:

Do not extract the USB Flash Drive while contents are being downloaded to it. Doing so may result in malfunctions.

Notes:

- It may take up to several minutes to load and start enjoying BD-Live contents.
- Depending on a disc, the BD-Live function may not be operated if [BD-LIVE connection] option is set to [Partially permitted]. (See page 26.)
- The connection to the Internet may take time or the Internet may not be connected depending on the connection environment. It is required that you use a broadband connection.
- Do not remove the USB Flash Drive during operation. The USB Flash Drive may be damaged. Stop playback and turn off the menu beforehand.

Tip:

Special video data, etc. may be played back while they are being downloaded to a USB Flash Drive using one function of BD-Live. The playback may be paused depending on the communication environment. Some functions may be disabled to prevent skipping to sections that have not been downloaded, etc.

AACS Online

When discs supporting BD-Live are played back, the player or disc IDs may be sent to the content provider via the Internet.

Services and functions to be provided differ depending on the disc.

- You can be introduced to other similar movies if you record your viewing history on the server by using these IDs.
- Game score histories can be saved.

Playing secondary video (picture-in-picture)

Secondary video can be played from a disc compatible with the picture-in-picture function.

For the playback method, refer to the instructions for the disc.

To turn on/off secondary video, press PIP. Secondary video is played.

Press the button to turn it ON or OFF.

Notes:

- Discs may not always be played back according to the settings on this unit, as certain playback formats are prioritized on certain discs.
- Only the primary video is played during search/slow-motion or frame-by-frame.
- This function may not work depending on the disc.

Playing a DVD VR Format Disc

The player can play video contents recorded on a DVD-RW(VR mode) discs.

ON REMOTE

1 Insert a disc containing movie contents.	–
2 Displays the [Home Menu]:	HOME
3 Select the [Movie] option:	◀▶, ENTER
4 Selects a movie from the [MOVIE] menu:	▲▼
5 Plays the selected movie: Press DISC MENU to move to the list menu.	PLAY
6 Stops the playback:	STOP

Note:

- You can use various playback functions. Refer to pages 28-31.
- On the [MOVIE] menu, use red (A) or blue (D) button to move to the previous or next page.
- Unfinalized DVD VR format discs may not be played in this player.
- Some DVD-VR disc are made with CPRM data by DVD RECORDER. This unit cannot support these kinds of discs.

What is CPRM?

CPRM is a copy protection system (with scramble system) only allowing the recording of 'copy once' broadcast programs. CPRM stands for Content Protection for Recordable Media.

Movie List menu options

Use ▲ / ▼ to select a title on the [MOVIE] menu then press ENTER. The menu options appear.



Use ▲ / ▼ to select an option, then press ENTER.

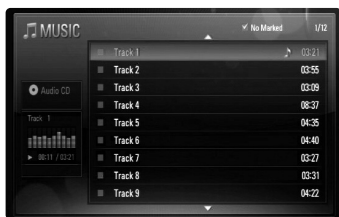
- **[Play]** Starts playback of the selected title.
- **[Resume Play]** Starts playback from where you stopped it previously.
- **[Close]** Exits menu options. Also you can disappear it by pressing RETURN button.

Listening to a music

The player can play Audio CDs and MP3/WMA files. Before playing MP3/WMA files, read "MP3/WMA audio file requirement" on page 36.

ON REMOTE

1 Insert an Audio CD or a disc/USB Flash Drive containing MP3/WMA files.	–
2 Displays the [Home Menu]:	HOME
3 Select a [Music] option:	◀▶, ENTER
4 Selects a music from the [MUSIC] menu:	▲▼
5 Plays the selected music:	PLAY
6 Stops the playback:	STOP



Example) Audio CD

Note:

When the USB Flash Drive is connected and a disc is inserted simultaneously, the menu for selecting a media will appear. Select a media then press ENTER.

Tips:

- To go directly to any track or file and play, enter the track/file number using the numbered buttons (0-9).
- The playback may start automatically if the Audio CD inserted.
- Select a folder then press ENTER and you can view the files in the folder. If you want to move to the upper directory, use ◀ or ▲/▼ to highlight [UP Folder] and press ENTER.

- On the [MUSIC] menu, use red (A) or blue (D) button to move to the previous or next page.
- The equalizer indicator is not coupled with the music in play back.
- If there is impossible code to express in the file name, it may be displayed as illegible.

The [MUSIC] menu options

Use ▲ / ▼ to select a track or file on the [MUSIC] menu then press ENTER. The menu options appear.

Use ▲ / ▼ to select an option, then press ENTER.



- [Play]** Starts playback the selected track or file.
- [Select Play]** Plays back only the marked track(s) or file(s). Use MARKER for selecting the multiple files or tracks.
- [Random]** Starts or stops random playback.
By pressing ▶▶ during random playback, the unit selects another track and resumes random playback.
- [Unmark All]** Unmarks all marked files or tracks.
- [Close]** Exits menu options. Also you can disappear it by pressing RETURN button.

Note:

You cannot use [Select Play] and [Random] functions simultaneously.

MP3/WMA audio file requirement

File extensions: “.mp3”, “.wma”

Sampling frequency: 8 - 48 kHz

Bit rate: 8 - 320kbps

CD-R/RW, DVD±R/RW, BD-R/RE Format:

ISO 9660+JOLIET, UDF and UDF Bridge format

Maximum Files/Disc:

Less than 1999 (total number of files and folders)

Notes on MP3/WMA file

- Depending on the size and number of the MP3/WMA files, it may take several minutes to read the contents of the media.
- This unit cannot support the ID3 Tag embedded in the MP3 file.

Viewing a photo

This unit can play a photo files. Before playing photo files, read “Photo file requirement” on page 37.

ON REMOTE

1 Insert a disc/USB Flash Drive containing photo files.	–
2 Displays the [Home Menu]:	HOME
3 Select a [Photo] option:	◀▶, ENTER
4 Selects a photo from the [PHOTO] menu:	▲/▼/◀/▶
5 Displays the selected photo in full screen:	ENTER
6 Displays the next or previous photo:	◀◀ / ▶▶
7 Return to the [PHOTO] menu screen:	STOP



Note:

When the USB Flash Drive is connected and a disc is inserted simultaneously, the menu for selecting a media will appear. Select a media then press ENTER.

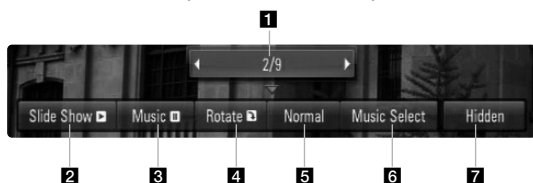
Tips:

- To go directly to any file and play, enter the file number using the numbered buttons (0-9).
- You can advance to the previous or next file by pressing ◀◀ or ▶▶ during viewing a photo file in full screen.
- You can start the slide show by pressing PLAY (▶) while the [PHOTO] menu appears.

- Select a folder then press ENTER and you can view the files in the folder. If you want to move to the upper directory, use ▲/▼/◀/▶ to highlight [UP Folder] and press ENTER.
- On the [PHOTO] menu, use red (A) or blue (D) button to move to the previous or next page.
- If there is impossible code to express in the file name, it may be displayed as illegible.

Options during viewing a photo file in full screen

You can use various options during viewing a picture in full screen. Use ▲ ▼ ◀ ▶ to select an option and use the options as described below.



- 1 Use ◀/▶ to advance to the previous or next file.
- 2 Press ENTER to start or pause the slide show.
- 3 Press ENTER to play or pause the background music. This option is available after the background music is selected using [Music Select] option.
- 4 Press ENTER to rotate the picture clockwise. This option is not available during slide show.
- 5 Press ENTER to set the Slide Show speed.
- 6 Selects the background music.
 - 1) Press ENTER and the menu will appear.
 - 2) Use ▲/▼/◀/▶ to select a media or folder that there are music file(s).
 - 3) Press ENTER to confirm your selection.
- 7 Press ENTER to exit the option menu. To appear the menu again, press ENTER.

Photo file requirement

File extensions: ".jpg", ".jpeg", ".png"

Recommended size:

Less than 3,000 x 3,000 x 24 bit/pixel

Less than 3,000 x 2,250 x 32 bit/pixel

CD-R/RW, DVD±R/RW, BD-R/RE Format:

ISO 9660+JOLIET, UDF and UDF Bridge format

Maximum Files/Disc:

Less than 1999 (total number of files and folders)

Notes on Photo file

- Progressive and lossless compression photo image files are not supported.
- Depending on the size and number of the photo files, it may take several minutes to read the contents of the media.

Playing Netflix Streaming

	ON REMOTE
1 Check the network connection and settings: See page 18 and 26.	–
2 Check the network configurations: See page 26.	–
3 Displays the [Home Menu]:	HOME
4 Select the [Streaming] option:	◀ ▶, ENTER

You can instantly watch movies (very few new releases) & TV episodes from Netflix streamed over the internet to your TV via your LG BD player. To become a Netflix member visit: www.netflix.com/LG

Activating your player

You must activate your player before you can use it to watch movies streamed over the INTERNET from Netflix.



Use ▲ / ▼ to select the [yes - activate instant streaming from Netflix] then press ENTER. Wait for the activation screen to appear on your TV screen. You are now ready to complete activation on the Netflix website.

3. On your computer, visit www.netflix.com/activate.

4. If necessary, enter your [Sign in Name] and [Password] to log into your account.



Enter the activation code that appears on your TV screen.

6. When the “Congratulations” screen appears on your TV, you’re ready to add movies to your instant Queue. See “Filling your instant Queue” for instruction.

Notes:

- If newer software is needed, a software update screen will automatically appear when you select [Streaming] from the home menu. For details on software updates, see page 45.
- For questions regarding the Netflix service please visit: www.netflix.com/LG/help or call 1-866-579-7113
- For questions regarding your player please visit: www.us.lgservice.com or call 1-800-243-0000
- You can deactivate streaming from Netflix to your player using [Deactivate Netflix] option on the setup menu (see page 27).

Using your player for Netflix

After you activate your player, you're ready to add movies & TV episodes to your instant Queue. You can then use your player's remote to browse your instant Queue and to select and watch titles on your TV. You will be amazed at how quick and easy it is.

Filling your instant Queue

Your instant Queue works just like your DVD Queue. Add and manage the movies & TV episodes in your instant Queue from the Netflix website on your computer. Your instant Queue also appears on your TV via your player, so your selections are available to watch anytime.

1. Visit the Netflix website on your computer: www.netflix.com



If necessary, enter your Sign in Name and Password to log into your account.



Click [Watch Instantly] tab.



When you find a movie or TV episode you want to watch, mouse over the [Add/Play] button to reveal additional options, and then click [Add to instant Queue].

5. Repeat step 4 to add more movies & TV episodes to your instant Queue.
6. (Optional) Arrange your instant Queue by clicking the [Instant] subtab.
 - To rearrange your instant Queue, drag and drop the titles in the order you want them, or change the numbers to the left of the titles and then click [Update Instant Queue] to your changes.
 - To remove a title from your instant Queue, click the [Remove] check box to the right of the title and then click [Update Instant Queue] to your changes.

Selecting a movie to watch on your TV

After you set up your player and add movies & TV episodes, you can browse and watch them on your TV.

1. Press HOME and the home menu will appear.



Use ◀ / ▶ to select the [Streaming] then press ENTER. The instant Queue screen will appear.

3. Use ◀ / ▶ to highlight a movie on your instant Queue. Use ◀◀ / ▶▶ button to move to the previous or next page. The selected movie shows the title, rating and total time.

4. Do either of the following:

- Press PLAY (▶) to play back the highlighted title.
- Press ENTER to view details for the highlighted title, and then use ▲ / ▼ to choose any of the menu items:
[play] Starts playing the selected title.

[resume playing] Plays a previously paused title from the scene where you paused it. This option is available only if you begin watching a title and then pause it.

[play from beginning] Starts playing from the beginning of the selected title.

[choose a different episode] (TV series only) Enables you to select a specific show of a TV series. Press ◀ / ▶ to highlight the show you want to view, and then press ENTER to choose it.

[rate] Enables you to rate a movie or show. The more stars, the higher the rating. Press ENTER to access the rating feature, and then press ◀ / ▶ to increase or decrease the rating. Press ENTER again to confirm the selected rating.

[remove] Deletes the selected movie from your instant Queue.

[remove series] (TV series only) Deletes the selected TV series from your instant Queue.

5. Press ▲ to return to your instant Queue.

Playing a movie

While watching a movie or TV episode from Netflix via your player, you have full control over your viewing experience. You can use the buttons on the remote to pause and resume viewing and to scan forward and backward, just like when you watch a DVD. While playing a movie, the buttons on the remote do the following:

Button(s)	Operations
▶ (PLAY)	Starts playing back the movie.
	To pause a movie while it's playing. To resume playing a paused movie, press ▶ (PLAY) again.
■ / ▲	Stops the movie and displays your instant Queue.
ENTER	Pauses playing the movie and enters frame scanning mode.
▶	Pauses playing the movie and enters frame scanning mode. To scan forward one frame at a time, press the button again.
◀	Pauses playing the movie and enters frame scanning mode. To scan backward one frame at a time, press the button again.
▶▶ / ◀◀	Pauses playing the movie and scans forward or backward through the movie. To scan faster, press the button again. To play the highlighted scene, press ENTER or ▶. To resume playing from the point you paused the movie, press ▲.
HOME	When you have finished watching movies streamed from Netflix, simply press the HOME button on the remote control to go to the Home Menu.

Note:

Even if you use a high-resolution setup, audio/video quality may be compromised based on the speed of your broadband internet connection. Your Internet Service Provider (ISP) determines your broadband speed. We recommend a minimum connection speed of 1.5 Mbps. For the best quality picture, a connection speed of 4.0 Mbps is required. Sometimes your broadband speed varies based on your ISP's network conditions. Contact your ISP if you have problems maintaining a fast connection that is reliable, or if you want to increase your connection speed. Many ISPs offer a variety of broadband speed options.

Listening to the radio

Be sure that FM and AM antennas are connected.

ON REMOTE

1 Select FM or AM:	TUNER (INPUT)
2 Select a radio station:	TUN./+/-
3 To save a radio station: A preset number will show on the display. Up to 50 radio stations can be saved.	ENTER
4 To confirm press:	ENTER
5 To select a saved station	PRESET ▲/▼

Listening to the radio - more you can do

Look for radio stations automatically

Press and hold TUN./TUN.+ for more than a second. The tuner will scan automatically and stop when it finds a radio station.

Choose a preset number for a radio station

When storing a radio station, the preset number can be chosen. When this unit automatically shows a preset number, press PRESET ▲/▼ to change it. Press ENTER to save your chosen number.

Delete all the saved stations

Press and hold ENTER for two seconds. ERASE ALL will flash up on the display. Press ENTER to erase all saved radio stations.

Improve poor FM reception

Press MO./ST. This will change the tuner from stereo to mono and usually improve the reception.

Playing the iPod

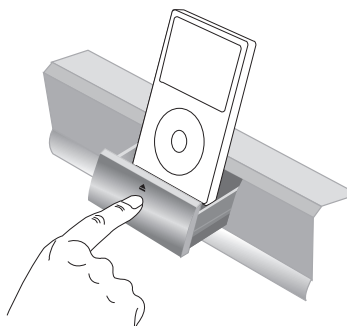
For details about iPod, refer to the iPod User Guide.

Preparation

- To view videos and the menus of OSD IPOD mode on the TV screen.
 - Make sure that the system is connected to the TV. (Refer to "Connections to Your TV" on page 14-15). Select the appropriate video input mode on the TV.
- To view videos on the TV screen if this unit is in REMOTE IPOD mode.
 - Be sure to use the video connection through the MONITOR OUTPUT jack.
 - Make sure that select Videos > Video settings, and then set TV Out to Ask or On from your iPod.

For details about Video Settings, refer to the iPod User Guide.
- Before connecting the iPod, turn this unit off and reduce the volume of this unit to its minimum.

Connect the iPod firmly.



To open the iPod Dock:
Push the marked ▲.
To close the iPod Dock:
Push the iPod Dock forward.

- If you turn this unit on, your iPod is automatically turned on and recharging starts.

To	Do this on remote
Select an iPod mode	Press iPod.
REMOTE IPOD mode: You can operate your iPod through an iPod's display by using the supplied remote control and also control on your iPod. OSD IPOD mode: You can operate your iPod by controlling OSD menu on the TV screen with the supplied remote control. The controls on your iPod are not operational in the OSD iPod mode.	

To	Do this on remote
Select a menu item	Press ▲ ▼ and ► or ENTER.
Go back to the previous menu	Press RETURN (↶) or DISC MENU or ◀.
Browse for a song	From the main menu, select Music.
Browse for a video	From the main menu, select Videos.
Play a song or video	Select the song or video and press ENTER.
Pause a song or video	Press PAUSE/SETUP (⏸) or PLAY (▶). To continue playback, press PAUSE/SETUP (⏸) or PLAY (▶) again.
Skip to the next song or chapter in an audiobook or podcast	Press SKIP (▶▶).
Start a song or video over	Press SKIP (◀◀).
Play the previous song or chapter in an audiobook or podcast	Press SKIP (◀◀) twice.
Fast-forward or rewind a song or video	Press and hold SCAN (◀◀ or ▶▶).
Repeat a song	Press REPEAT repeatedly to select a desired repeat mode: Track (🔁), All (🔄), Off (No display).

Tip:

You may use the dock adapter which should be supplied with your iPod to the dock for the stable use of the iPod.

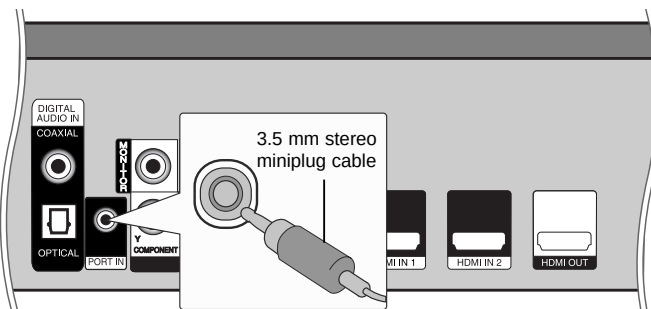
If you need an adapter, consult your iPod dealer.

Notes:

- This unit does not support playing photos from your iPod.
- Compatibility with your ipod may vary depending on the type of your iPod.
- iPod touch and iPhone have any difference in operation other than iPod.
You may need any additional control to use them with this unit.
(e.g. "slide to unlock")
- Depending on your iPod's software version, it may not be possible to control your iPod from this unit. We recommend installing the latest software version.
- If this unit displays an error message, follow the message.
An error message "CHECK IPOD" or "Please check your iPod." appears when:
 - the communication between this unit and your iPod is failed.
→ Undock & re-dock your iPod in this unit.
 - your iPod is not connected firmly.
 - this unit recognizes your iPod as unknown device.
 - your iPod is exceptionally low on power.
→ The battery needs to be charged.
- An error message "CHECK IPOD" or "Connected iPod model is not supported." appears when:
 - your iPod is not available for the function to be operated.
- An error message "CHECK IPOD" or "Please update iPod's software." appears when:
 - your iPod has an old software version.
→ Update your iPod software to latest version.
- If you have a problem with your iPod, please visit
www.apple.com/support/ipod.

Listening to music from your portable audio player

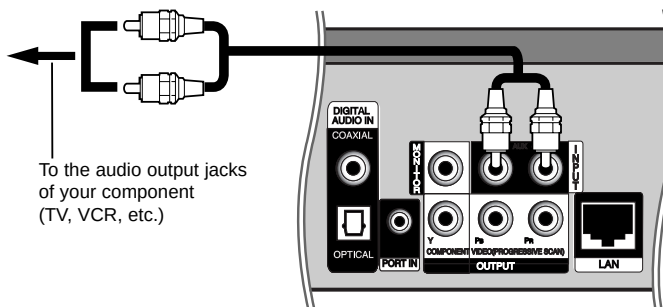
You can enjoy the sound of your portable audio player from the speakers of the system.



	ON REMOTE
1 Connect the headphones (or line out) jack of the portable audio player into the PORT. IN on the rear panel of this unit:	-
2 Turn the power on:	POWER
3 Select the [PORTABLE] option:	INPUT
4 Turn down the volume of this unit:	VOL. (+/-)
5 Turn the portable audio player on and start it playing:	-
6 Adjust the volume of this unit and your portable audio player:	VOL. (+/-)

Listening to the sound from your component

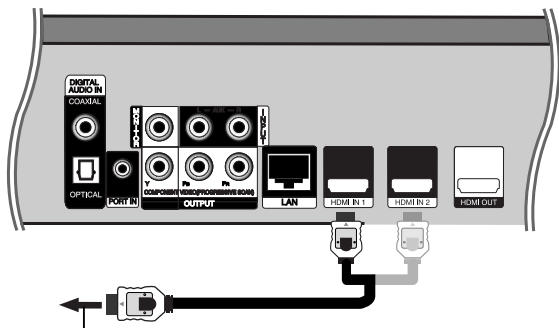
You can enjoy the sound of your component with the analog audio output jacks from the speakers of the system.



	ON REMOTE
1 Connect the analog audio output jacks of your component into the AUX L/R (INPUT) on the rear panel of this unit:	-
2 Turn the power on:	POWER
3 Select the [AUX] option:	INPUT
4 Turn down the volume of this unit:	VOL. (+/-)
5 Turn your component on:	-
6 Adjust the volume:	VOL. (+/-)

Using HDMI IN jacks (LHB977 only)

You can enjoy the sound of your component with the HDMI OUT jack from the speakers of the system.

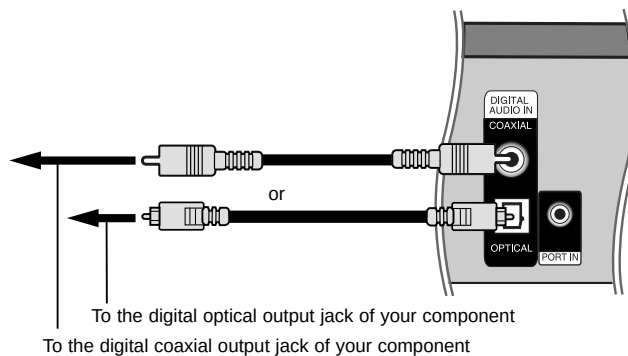


To the HDMI OUT jack of your component
(TV, set-top box, digital satellite receiver, video game machine, etc.)

	ON REMOTE
1 Connect the HDMI OUT jack of your component into the HDMI IN 1 or 2 jack on the rear panel of this unit.	-
2 Turn the power on:	POWER
3 Select the [HDMI IN 1] or [HDMI IN 2] option:	INPUT
4 Turn down the volume:	VOL.(+/-)
5 Turn your component on:	-
6 Adjust the volume:	VOL.(+/-)

Using DIGITAL AUDIO IN jacks

You can enjoy the sound of your component with the digital optical or coaxial output jack from the speakers of the system.



	ON REMOTE
1 Connect the optical or coaxial output jack of your component into the OPTICAL or COAXIAL (DIGITAL AUDIO IN) jack on the rear panel of this unit.	-
2 Turn the power on:	POWER
3 Select the [OPTICAL] or [COAXIAL] option:	INPUT
4 Turn down the volume:	VOL.(+/-)
5 Turn your component on:	-
6 Adjust the volume:	VOL.(+/-)

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.

Step 1: Check the Network Connection and settings

See page 18 and 26.

Step 2: Checking Network Configuration

See page 26.

Step 3: Updating Software

Cautions:

- Before updating the software in your player, remove any disc and USB Flash Drive 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. Select [Software Update] option in the [Setup] menu then press ► or ENTER.
2. The player will check for the newest update.

Caution: Pressing ENTER while checking for the update will end the process.

Note: If there is no update available, the Message, "No update is found." appears. Press ENTER to return to the [Home Menu].

3. If newer version exists, the message "A new update was found. Do you want to download it?" appears.
4. Select OK to download the update. (Selecting [CANCEL] will end the update.)
5. The player starts downloading the newest update from the server. (Downloading will take about 80 seconds at the network speed of 4Mbps Speed.)

6. When downloading is completed, the message, "Download is complete. Do you want to update?" appears.
7. Select OK to start updating.
(Selecting [CANCEL] will end the update and downloaded file will not be re-usable. To update software the next time, the software update procedure has to be started from the beginning again.)

Caution: Do not turn off the power during the software update.

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

8. When update is completed, the message, "Update is complete." will appear, and the power will turn off automatically after 5 seconds.
9. Turn the power back on. The system now operates with the new version.
10. After completing the update process, repeat procedures 1-4 in Step 4 and check if there are no more updates available.

Tip:

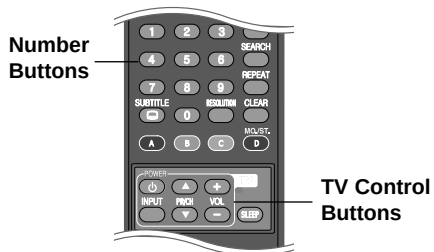
The Software Update function may not work properly depending on your internet environment. In this case, you can obtain the latest software from the authorized LG Electronics Service Center then update your player. Refer to "Customer Support" on page 50.

Reference

Controlling a TV with the Supplied Universal Remote Control

You can control the volume, input source, and power state of your TV with the supplied Universal Remote Control.

You can control your TV using the buttons below.



By pressing	You can
TV POWER	Turn the TV on or off.
INPUT	Switch the TV's input source between the TV and other input sources.
PR/CH ▲/▼	Scan up or down through memorized channels.
VOL +/-	Adjust the volume of the TV.
MUTE	Temporarily turns TV sound OFF, press again to restore.

Note:

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

To program the remote to control the TV using the manufacturer code

If your TV is listed in the table on the next page, set the appropriate manufacturer code.

1. While holding down TV POWER button, press the number buttons to select the manufacturer code for your TV (Refer to table on the next page).
 - If more than one code number is listed, try entering them one at a time until you find the one that works with your TV.
2. Release TV POWER button.

Notes:

- Depending on your TV, some or all buttons may not function on the TV, even after entering the correct manufacturer code.
- If you enter a new code number, the code number previously entered will be erased.
- 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.

Code numbers of controllable TVs

Manufacturer	Code Number
A MARK	112 143
ADMIRAL	072 081 161
AKAI	006 146
AMPRO	073 167
AMSTRAD	052
ANAM	026 043 054 056 080 104 108 112 115 118 121 131
AOC	004 006 058 112
BLAUPUNKT	088
CANDLE	002 003 004 006
CAPEHART	058
CETRONIC	043
CITIZEN	002 003 004 006 043 101 103 143
CLASSIC	043
CONCERTO	004
CONTEC	039 043 050 051
CORONADO	143
CRAIG	043 054
CROWN	043 143
CURTIS MATHES	004 006 101 116 143
CXC	043
DAEWOO	004 016 017 043 044 055 071 076 103 107 111 114 117 120 123 125 127 128 136 143
DAYTRON	004 116 143
DYNASTY	043
DYNATECH	062
ELECTROHOME	024 077 143
EMERSON	004 005 006 028 043 047 048 050 051 096 116 143 151 153 154 155
FISHER	007 057
FUNAI	028 043
FUTURETECH	043
GE	004 006 008 009 034 056 073 074 091 116 130 144 155 160 161 165
HALL MARK	004 116
HITACHI	004 006 009 010 011 012 023 041 075 143 158 163 166 187
INFINITY	164
INKEL	129
JBL	164
JCPENNY	004 006 008 009 024 030 065 101 143 156 160
JENSEN	013
JVC	034 038 070 083 145

Manufacturer	Code Number
KEC	043
KENWOOD	006 070
KLOSS	002 059
KMC	143
KTV	006 043 143 154
LG	001(Default) 004 102 106 110 112 113 116 119 122 127 137 143
LODGENET	072
LOGIK	072
LUXMAN	004
LXI	007 015 052 081 160 164 166
MAGNAVOX	003 004 006 022 059 060 061 063 064 127 143 160 164
MARANTZ	006 077 164
MATSUI	164
MEMOREX	004 007 072 116
METZ	088
MGA	004 006 024 028 042 049 077 116
MINERVA	088
MITSUBISHI	004 006 024 028 040 042 109 116 124 146
MTC	004 006 062 101
NAD	015 025
NEC	006 007 016 019 024 040 056 130 132 134
NIKEI	043
ONKING	043
ONWA	043
OPTONICA	019 081
PADIO SHACK	004
PANASONIC	034 056 080 092 164
PHILCO	003 004 006 024 043 056 059 060 063 064 127 143 164
PHILIPS	003 004 005 006 038 059 070 093 143 160 164
PIONEER	006 018 023 025 027 116 135 176
PORTLAND	004 143
PROSCAN	144 160 161 165 167
PROTON	004 058 116 131 143 171 173
QUASAR	034 056 092
RADIO SHACK	019 043 047 116 127 143
RCA	004 006 023 024 056 065 074 144 152 156 160 161 165

Manufacturer	Code Number
REALISTIC	007 019 043 047
ROTEC	186
RUNCO	168 169
SAMPO	004 006 058 116
SAMSUNG	004 050 089 101 105 113 116 127 133 137 143 160
SANYO	007 020 021 033 039 053 057 082 166
SCOTT	004 028 043 048 116 143
SEARS	004 007 015 028 030 057 082 094 101 116 143 160
SHARP	004 014 019 022 028 029 081 143 170 175
SIEMENS	088
SIGNATURE	072
SONY	041 070 079 085 126 139 147 185
SOUNDESIGN	003 004 028 043 116
SPECTRICON	112
SSS	004 043
SUPRE MACY	002
SYLVANIA	003 004 006 044 059 060 063 064 116 127 140 160 164
TANDY	081
TATUNG	056 062
TECHNICS	034 080 084
TECHWOOD	004
TEKNIKA	002 003 004 006 024 028 031 043 072 077 101 103 143
TELEFUNKEN	037 046 086 087
TELERENT	072
TERA	172
TMK	004 116
TOSHIBA	007 015 030 040 051 062 101 138
TOTEVISION	143
UNIVERSAL	008 009
VIDEO CONCEPTS	146
VIDIKRON	174
VIDTECH	004 116
WARDS	004 008 009 019 028 060 061 063 064 072 074 116 143 164
YAMAHA	004 006
YORK	004 116
YUPITERU	043
ZENITH	001 072 073 095 103 157
ZONDA	112

Language Codes

Use this list to input your desired language for Disc Audio, Disc Subtitle and Disc Menu.

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

Area Codes

Choose an area code from this list.

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

Troubleshooting

Symptom	Possible Cause	Correction
No power.	The power cord is disconnected.	Plug the power cord into the wall outlet securely.
The power is on, but the player does not work.	No disc is inserted.	Insert a disc. (Check the disc indicator in the display window is lit.)
No picture.	The TV is not set to receive DVD signal output.	Select the appropriate video input mode on the TV.
	The video cable is not connected securely.	Connect the video cable securely.
	The selected resolution is not capable with your TV.	Select another resolution using RESOLUTION button.
No sound.	The equipment connected with the audio cable is not set to receive disc signal output.	Select the correct input mode of the audio receiver so you can listen to the sound from the player.
	The power of the equipment connected with the audio cable is turned off.	Turn on the equipment connected with the audio cable.
	The [AUDIO] options are set to the wrong position.	Set the [AUDIO] options to the correct position (see page 23).
	The player is in reverse play, fast forward, slow motion or pause mode.	Return to the normal playback.
The player does not start playback.	The disc is upside down.	Insert the disc with the playback side down.
	An unplayable disc is inserted.	Insert a playable disc. (Check the disc type and regional code.)
	The rating level is set.	Change the rating level.
	The disc was recorded on another unit and was not finalized.	Finalize the disc on that unit.
The Remote Control does not work properly.	The Remote Control is not pointed at the remote sensor on the player.	Point the Remote Control at the remote sensor of the player.
	The Remote Control is too far from the player.	Operate the Remote Control closer to the player.

Troubleshooting

Symptom	Possible Cause	Correction
BD-Live feature does not work.	• A USB Flash Drive is not connected.	• Connect a FAT16 or FAT32 formatted USB Flash Drive to the USB port (see page 20).
	• The connected USB Flash Drive does not have enough space.	• Secure at least 1GB free space in the USB Flash Drive for using BD-Live features
	• Internet connection is not established.	• Ensure that the unit is correctly connected to the local area network and can access the internet (see page 18).
	• The [BD-LIVE connection] option in the [Setup] menu is set to [Prohibited].	• Set the [BD-LIVE connection] option to [Permitted].
The Netflix Streaming video playback is often buffering.	• Your broadband speed is not fast enough	• Contact your Internet Service Provider (ISP) and increase the broadband speed are recommended.
Radio stations cannot be tuned in.	• The signal strength of the stations is too weak (when tuning in with automatic tuning).	• Use direct tuning.

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 contact the following:

Call 1 (800) 243-0000 or

Visit <http://us.lgservice.com> and click on PRODUCT SUPPORT

→ Device Driver.

- Design and specifications are subject to change without notice.

Resetting the unit

If you observe any of the following symptoms.

- The unit is plugged in, but the power will not turn on or off.
- The front panel display is not working.
- The unit is not operating normally.

You can reset the unit as follows.

- Press and hold the POWER button for at least five seconds. This will force the unit to power off then turn the unit back on.
- Unplug the power cord, wait at least five seconds, and then plug it in again.

Specifications

General

Power requirements:	AC 120 V~, 60 Hz
Power consumption:	130 W
Dimensions (W x H x D):	Approx. 430 x 76 x 379 mm without foot
Net Weight (Approx.):	4.8 kg
Operating temperature:	41 °F to 95 °F (5 °C to 35 °C)
Operating humidity:	5 % to 90 %

Inputs/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 (Pb)/(Pr) 0.7 V (p-p), 75 Ω, RCA jack x 2
HDMI OUT (video/audio):	19 pin (HDMI standard, Type A)
HDMI IN (video/audio):	19 pin (HDMI standard, Type A)
ANALOG AUDIO IN:	2.0 Vrms (1 kHz, 0 dB), 600 Ω, RCA jack (L, R) x 1
DIGITAL IN (COAXIAL):	0.5 V (p-p), 75 Ω, RCA jack x 1
DIGITAL IN (OPTICAL):	3 V (p-p), Optical jack x 1
PORT. IN:	0.5 Vrms (3.5 ϕ stereo jack)

Tuner FM/AM

FM Tuning Range:	87.5 - 108.0 MHz
AM Tuning Range:	520 - 1.710 kHz

Amplifier

Stereo mode:	155 W + 155 W (4Ω at 1 KHz, THD 10%)
Surround mode:	Left+Right: 155 W + 155 W (THD 10%) Center: 155 W Surround: 155 W + 155 W (4Ω at 1 KHz, THD 10%) Subwoofer: 225 W (3Ω at 30 Hz, THD 10%)

System

Laser:	Semiconductor laser, wavelength: 405nm / 650 nm
Signal system:	Standard 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 (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

Speakers (LHB977)

	Front speaker	Rear Speaker	Center Speaker	Passive Subwoofer
Type	2 Way 3 speaker	1 Way 1 speaker	2 Way 3 speaker	1 Way 1 speaker
Impedance	4Ω	4Ω	4Ω	3Ω
Rated Input Power	155 W	155 W	155 W	225 W
Max. Input power	310 W	310 W	310 W	450 W
Net Dimensions (W x H x D)	210 x 1150 x 290 mm	96 x 240 x 108 mm	350 x 105 x 93 mm	216 x 405 x 360 mm
Net Weight	3.86 kg	0.8 kg	1.5 kg	7.1 kg

Speakers (LHB953)

	Front speaker	Rear Speaker	Center Speaker	Passive Subwoofer
Type	1 Way 1 speaker	1 Way 1 speaker	1 Way 1 speaker	1 Way 1 speaker
Impedance	4Ω	4Ω	4Ω	3Ω
Rated Input Power	155 W	155 W	155 W	150 W
Max. Input power	310 W	310 W	310 W	300 W
Net Dimensions (W x H x D)	96 x 240 x 108 mm	96 x 240 x 108 mm	350 x 105 x 93 mm	216 x 405 x 310 mm
Net Weight	0.8 kg	0.8 kg	0.9 kg	5.9 kg

Accessories

Speaker cable (6), Remote control (1), Battery (1), Component cable (1), AM antenna (1), FM antenna (1)

Open source software notice

The following GPL executables and LGPL libraries used in this product are subject to the GPL2.0/LGPL2.1 License Agreements:

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Linux kernel 2.6, bash, busybox, dhcpcd, mtd-utils, net-tools, procps, sysutils, tinylogin

LGPL LIBRARIES:

uClibc, DirectFB, iconv, cairo

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Notes



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WARRANTY PERIOD:

LABOR: 90 days from the Date of Purchase.

PARTS: One Year from the Date of Purchase.

- * Parts replaced are warranted for the remaining portion of the original warranty period.

HOW SERVICE IS HANDLED:

Call 1-800-243-0000 for instructions on getting the defective unit repaired or replaced.

Please retain dated sales receipt and your box to return the unit to LG for repair or replacement.

Shipping both ways will be paid by LG during the Warranty Period. After the Warranty Period, you pay inbound shipping charges and LG pays return shipping charges.

Visit our website at: <http://www.lgservice.com>

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- Damages or operating problems that result from normal wear and tear, misuse, abuse, operation outside environmental specifications or contrary to the requirements or precautions in the Operating Guide, accident, lightning strikes or other natural causes, unauthorized modification or alteration, incorrect electrical current or voltage, reception problem caused by inadequate home antenna or faulty antenna connections, computer software, institutional or commercial use, or other causes not arising out of defect in material or workmanship.

Therefore, the cost of repair or replacement of such defective product shall be borne by the consumer.

CUSTOMER INTER-ACTIVE CENTER NUMBERS:

For nearest Authorized Service Center, Where to buy, Product Assistance, or Customer Assistance

Call 1-800-243-0000 (24 hours a day, 365 days per year) and select appropriate options from the menu.

Or visit our website at <http://us.lgservice.com>

LG ELECTRONICS U.S.A., INC.
1000 SYLVAN AVENUE
ENGLEWOOD CLIFFS, NJ

P/NO : MFL56962834
Issue O
Printed in Indonesia

General Specification

No.	ITEM	DESCRIPTIONS
1	Occupied Bandwidth	≤ 2MHz
2	Transmitting Power	≤50mW
3	Frequency Range	2400 - 2483.5MHz
4	Channel Number	20
5	Modulation Type	FHSS
6	Antenna Type	Integrated PCB Antenna (Internal antenna)
7	RF Operating Temperature	0°C ~ + 55°C
