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

BP240
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.

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

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

CAUTION: Do not 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.

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

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.

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

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

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

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

**Notes on Copyrights**

- Because AACS (Advanced Access Content System) is approved as content protection system for Blu-ray Disc format, similar to use of CSS (Content Scramble System) for DVD format, certain restrictions are imposed on playback, analogue signal output, etc., of AACS protected contents. The operation of this product and restrictions on this product may vary depending on your time of purchase as those restrictions may be adopted and/or changed by AACS after the production of this product.
- Furthermore, BD-ROM Mark and BD+ are additionally used as content protection systems for Blu-ray Disc format, which imposes certain restrictions including playback restrictions for BD-ROM Mark and/or BD+ protected contents. To obtain additional information on AACS, BD-ROM Mark, BD+, or this product, please contact an authorized Customer Service Centre.
- Many BD-ROM/DVD discs are encoded with copy protection. Because of this, you should only connect your player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected discs.
- This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Rovi Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Rovi Corporation. Reverse engineering or disassembly is prohibited.
- Under the U.S. Copyright laws and Copyright laws of other countries, unauthorized recording, use, display, distribution, or revision of television programs, videotapes, BD-ROM discs, DVDs, CDs and other materials may subject you to civil and/or criminal liability.
**Important Notice for TV colour system**

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

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

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

- If you have a PAL colour system TV, you will see just distorted images when using discs or video contents recorded in NTSC.

- The multi system colour TV changes the colour system automatically according to input signals. In case that the colour system is not changed automatically, turn it off and then on to see normal images on screen.

- Even if the disc recorded in NTSC colour system are well displayed on your TV, these may not be recorded correctly on your recorder.
# Table of Contents

## 1 Getting Started

3 Safety Information  
8 Introduction  
8 – Playable discs and symbols used in this manual  
9 – About the “Ω” symbol display  
9 – Regional code  
9 – System Select  
10 Remote Control  
11 Front Panel  
11 Rear Panel

## 2 Connecting

12 Connecting the AC Adapter  
12 Connecting to your TV  
13 – What is SIMPLINK?  
14 – Resolution setting  
15 Connecting to an Amplifier  
15 – Connecting to an amplifier via HDMI output

## 3 System Setting

16 Initial Setup  
16 Settings  
16 – Adjust the setup settings  
17 – [DISPLAY] menu  
18 – [LANGUAGE] menu  
19 – [AUDIO] menu  
20 – [LOCK] menu  
21 – [OTHERS] menu

## 4 Operating

22 Home Menu Display  
22 – Using [HOME] menu  
22 Playing the Linked Devices  
22 – Playing a Disc  
23 – Playing a file on disc/USB device  
24 – Playing a file on Android device  
25 General Playback  
25 – Basic operations for video and audio content  
25 – Basic operations for photo content  
25 – Using the disc menu  
26 – Resume playback  
26 – Last scene memory  
27 On-Screen Display  
27 – To control video playback  
28 – To control photo view  
29 Advanced Playback  
29 – Repeat playback  
29 – Repeating a specific portion  
29 – Playing from selected time  
30 – Selecting a subtitle language  
30 – Hearing a different audio  
30 – Watching from a different angle  
30 – Changing the TV Aspect Ratio  
31 – Changing subtitle Code Page  
31 – Changing the Picture Mode  
32 – Viewing content information  
32 – Changing content list view  
32 – Selecting a subtitle file  
33 – Listening to music during slide show  
34 – Audio CD recording

## 5 Troubleshooting

35 Troubleshooting  
35 – General  
36 – Picture  
36 – Customer support  
36 – Open source software notice
6 Appendix

37 Controlling a TV with the Supplied Remote Control
37 - Setting up the remote to control your TV
38 Additional Information
38 - File requirement
39 - AVCHD (Advanced Video Codec High Definition)
40 - Certain system requirements
40 - Compatibility notes
41 Audio Output Specifications
42 Area Code List
43 Language Code List
44 Trademarks and Licenses
46 Specifications
47 Maintenance
47 - Handling the unit
47 - Notes on discs

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

## Playable discs and symbols used in this manual

<table>
<thead>
<tr>
<th>Media/Term</th>
<th>Logo</th>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
</table>
| Blu-ray        | ![Blu-ray Disc](image) | ![BD](image) | • Discs such as movies that can be purchased or rented.  
• BD-R/RE discs that are recorded in BDAV format. |
| DVD-ROM        | ![DVD](image) | ![DVD](image) | • Discs such as movies that can be purchased or rented.  
• Video mode and finalized only  
• Supports the dual layer disc also |
| DVD-R          | ![DVD](image) | ![AVCHD](image) | Finalized AVCHD format |
| DVD-RW         | ![DVD](image) | ![Movie](image) ![Music](image) ![Photo](image) | • DVD±R/RW discs that contain Video, Audio or Photo files.  
• ISO 9660+JOLIET, UDF and UDF Bridge format |
| DVD+R          | ![DVD](image) | ![Movie](image) ![Music](image) ![Photo](image) | • DVD±R/RW discs that contain Video, Audio or Photo files.  
• ISO 9660+JOLIET, UDF and UDF Bridge format |
| DVD+RW         | ![DVD](image) | ![Movie](image) ![Music](image) ![Photo](image) | • DVD±R/RW discs that contain Video, Audio or Photo files.  
• ISO 9660+JOLIET, UDF and UDF Bridge format |
| DVD-RW (VR)    | ![DVD](image) | ![DVD](image) | VR mode and finalized only |
| Audio CD       | ![Audio CD](image) | ![ACD](image) | Audio CD |
| CD-R/RW        | ![CD-R/RW](image) | ![Movie](image) ![Music](image) ![Photo](image) | • CD-R/RW discs that contain Video, Audio or Photo files.  
• ISO 9660+JOLIET, UDF and UDF Bridge format |
| Note           | –           | ![Note](image) | Indicates special notes and operating features. |
| Caution        | –           | ![Caution](image) | Indicates cautions for preventing possible damages from abuse. |
Getting Started

Note

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

About the “∅” symbol display

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

Regional code

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

System Select

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

1 (POWER): Switches the player ON or OFF.

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

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

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

REPEAT (►/◄): Repeats a desired section or sequence.

◄/► (SCAN): Searches backward or forward.

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

II (PAUSE): Pauses playback.

► (PLAY): Starts playback.

■ (STOP): Stops playback.

4Coloured (R, G, Y, B) buttons: Use to navigate BD-ROM menus. They are also used for [MOVIE], [PHOTO] and [MUSIC] menu.

TV Control Buttons: See page 37.

Hom(e) (❖): Displays or exits the [Home Menu].

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

Direction buttons(►/◄/▲/▼): Selects an option in the menu.

ENTER (❖): Acknowledges menu selection.

BACK (❖): Exits the menu or returns to the previous screen.

DISC MENU: Accesses menu on a disc.

Battery Installation

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

1 Disc Tray
2 Power Indicator
3 Remote Sensor
4 (OPEN / CLOSE)
5 / (POWER)
6 USB Port

Rear Panel

1 DC IN 12V (AC adapter input)
2 HDMI OUT
Connecting the AC Adapter

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

- Contact an electrical parts distributor for assistance in selecting a suitable AC plug adapter or AC cord set.
- This AC adapter is manufactured by APD Group Yang Ming Industrial.

⚠️ Caution

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

Connecting to your TV

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

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

⚠️ Note

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

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

**Note**

- If a connected HDMI device does not accept the audio output of the player, the HDMI device’s audio sound may be distorted or may not output.
- When you use HDMI connection, you can change the resolution for the HDMI output. (Refer to “Resolution Setting” on page 14)
- Select the type of video output from the HDMI OUT jack using [HDMI Color Setting] option on the [Settings] menu (page 18).
- Changing the resolution when the connection has already been established may result in malfunctions. To solve the problem, turn off the player and then turn it on again.
- When the HDMI connection with HDCP is not verified, TV screen is changed to black screen. In this case, check the HDMI connection, or disconnect the HDMI cable.
- If there are noises or lines on the screen, please check the HDMI cable (length is generally limited to 4.5 m (15 ft.)).

**What is SIMPLINK?**

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

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

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

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

**Note**

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

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

1. Press HOME ( aç).
2. Use ▲/▼ to select the [Settings] and press ENTER ( ç). The [Settings] menu appears.
3. Use ▲/▼ to select [DISPLAY] option then press ▲ to move to the second level.
4. Use ▲/▼ to select the [Resolution] option then press ENTER ( ç) to move to the third level.
5. Use ▲/▼ to select the desired resolution then press ENTER ( ç) to confirm your selection.

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

If you select a resolution manually and then connect the HDMI jack to TV and your TV does not accept it, the resolution setting is set to [Auto].

If you select a resolution that your TV does not accept, the warning message will appear. After resolution change, if you cannot see the screen, please wait 20 seconds and the resolution will automatically revert back to the previous resolution.

The 1080p video output frame rate may be automatically set to either 24 Hz or 50 Hz depending both on the capability and preference of the connected TV and based on the native video frame rate of the content on the BD-ROM disc.
Connecting to an Amplifier

Since many factors affect the type of audio output, see “Audio output specifications” for details (page 41).

About Digital Multi-channel sound

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

Connecting to an amplifier via HDMI output

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

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

You will need to activate the player’s digital output. (See “[AUDIO] Menu” on page 19)
Initial Setup

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

1. Press (POWER).
   The initial setup wizard appears on the screen.
2. Use ▲/▼/◄/► to select a display language and press ENTER ( ).
3. Check the setting that you have set in the previous step.

Settings

Adjust the setup settings

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

1. Press HOME ( ).
2. Use ◄/ ► to select the [Settings] and press ENTER ( ). The [Settings] menu appears.
3. Use ▲/▼ to select the first setup option, and press ► to move to the second level.
4. Use ▲/▼ to select a second setup option, and press ENTER ( ) to move to the third level.
5. Use ▲/▼ to select a desired setting, and press ENTER ( ) to confirm your selection.
[DISPLAY] menu

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

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

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

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

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

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

Resolution
Sets the output resolution of the HDMI video signal. Refer to page 14 for details about the resolution setting.

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

[576p]
Outputs 576 lines of progressive video.

[720p]
Outputs 720 lines of progressive video.

[1080i]
Outputs 1080 lines of interlaced video.

[1080p]
Outputs 1080 lines of progressive video.

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

⚠️ Note

• When you select [24 Hz], you may experience some picture disturbance when the video switches video and film material. In this case, select [50 Hz].
• Even when [1080p Display Mode] is set to [24 Hz], if your TV is not compatible with 1080p/24 Hz, the actual frame frequency of the video output will be 50 Hz to match the video source format.
**HDMI Color Setting**
Select the type of output from the HDMI OUT jack. For this setting, please refer to the manuals of your display device.

- [YCbCr]
  Select when connecting to an HDMI display device.
- [RGB]
  Select when connecting to a DVI display device.

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

- [Original]
  Refers to the original language in which the disc was recorded.
- [Other]
  Press ENTER (△) to select another language. Use number buttons then press ENTER (△) to enter the corresponding 4-digit number according to the language code list on page 43.
- [Off] (Disc Subtitle only)
  Turn off Subtitle.

⚠️ **Note**
Depending on the disc, your language setting may not work.
[AUDIO] menu
Each disc has a variety of audio output options. Set the player’s Audio options according to the type of audio system you use.

⚠️ Note
Since many factors affect the type of audio output, see “Audio Output Specifications” on page 41 for details.

Digital Output

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

[PCM]
Select if you connect this unit’s HDMI OUT jack to a device with digital decoder.

[DTS Re-Encode]
Select if you connect this unit’s HDMI OUT jack to a device with DTS decoder.

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

Sampling Freq. (Digital Audio Output)

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

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

[192 kHz]
Select this if your A/V Receiver or Amplifier is capable of handling 192 kHz signals. Check the documentation for your A/V Receiver or Amplifier to verify its capabilities.

DRC (Dynamic Range Control)
This function allows you to listen to a movie at a lower volume without losing clarity of sound.

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

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

[Off]
Turns off this function.

⚠️ Note
The DRC setting can be changed only when a disc is not inserted or the unit is in complete stop mode.
[LOCK] menu

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

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

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

Password
You can create or change the password.

[None]
Enter a 4-digit password twice, and press ENTER (△) to create a new password.

[Change]
Enter the current password and press ENTER (△). Enter a 4-digit password twice, and press ENTER (△) to create a new password.

If you forget your password
If you forget your password, you can clear it using the following steps:
1. Remove any disc that might be in the player.
3. Use number buttons to enter “210499”. The password is cleared.

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

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

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

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

[255]All BD-ROM can be played.

[0-254]Prohibits play of BD-ROM with corresponding ratings recorded on them.

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

Area Code
Enter the code of the area whose standards were used to rate the DVD video disc, based on the list on page 42.
[OTHERS] menu

DivX® VOD

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

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

[Register]
Displays the registration code of your player.

[Deregister]
Deactivate your player and display the deactivation code.

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

Auto Power Off

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

Initialize

[Factory Set]
You can reset the player to its original factory settings.

[Blu-ray Storage Clear]
Initializes the Blu-ray contents from the connected USB storage.

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

Software

[Information]
Displays the current software version.
Home Menu Display

Using [HOME] menu
The home menu appears when you press HOME ( ). Use ◀/▶ to select a category and press ENTER ( ).

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

Playing the Linked Devices

Playing a Disc

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

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

MOVIE  MUSIC  PHOTO

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

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

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

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

2. Press HOME (Home).


4. Select Disc or USB and press ENTER (Enter).

5. Select a file using ▲ / ▼ / ◄ / ►, and press ► (PLAY) or ENTER (Enter) to play the file.

Notes on USB device

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

**MOVIE MUSIC PHOTO**

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

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

2. Press HOME (▲).
4. Select [MTP] using ▼ / ◁ and press ENTER (・).

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

5. Select a file using ▼ / ◁ / ◀ / ◁, and press ◁ (PLAY) or ENTER (・) to play the file.

**Notes on Connecting Android device**

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

Basic operations for video and audio content

To stop playback
Press ■ (STOP) during playback.

To pause playback
Press II (PAUSE) during playback. Press ► (PLAY) to resume playback.

To play frame-by-frame (Video)
Press II (PAUSE) during movie playback. Press II (PAUSE) repeatedly to play Frame-by-Frame playback.

To scan forward or backward
Press ◄ or ► to play fast forward or fast reverse during playback.
You can change the various playback speeds by pressing ◄ or ► repeatedly.

To slow down the playing speed (Video)
While the playback is paused, press ►► repeatedly to play various speeds of slow motion.

To skip to the next/previous chapter/track/file
During playback, press ◄◄ or ►► to go to the next chapter/track/file or to return to the beginning of the current chapter/track/file.
Press ◄◄ twice briefly to step back to the previous chapter/track/file.

Basic operations for photo content

To play a slide show
Press ► (PLAY) to start slide show.

To stop a slide show
Press ■ (STOP) during slide show.

To pause a slide show
Press II (PAUSE) during slide show. Press ► (PLAY) to re-start the slide show.

To skip to the next/previous photo
While viewing a photo in full screen, press ◄ or ► to go to the previous or next photo.

Using the disc menu

To display the disc menu
The menu screen may be displayed first after loading a disc which contains a menu. If you want to display the disc menu during playback, press DISC MENU.
Use ▲/▼/◄/► buttons to navigate through menu items.

To display the Pop-up menu
Some BD-ROM discs contain Pop-up menu that appears during playback.
Press TITLE/POP-UP during playback, and use ▲/▼/◄/► buttons to navigate through menu items.
Resume playback

The unit records the point where you pressed the ■ (STOP) depending on the disc.
If “■” (Resume Stop) appears on the screen briefly, press ► (PLAY) to resume playback (from the scene point).
If you press ■ (STOP) twice or unload the disc, ” ■” (Complete Stop)” appears on the screen. The unit will clear the stopped point.

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

Last scene memory

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

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

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

To control video playback

1. During playback, press INFO/MENU (бережетел).
2. Select [Option] using \( \uparrow / \downarrow \) , and press ENTER (бережетел).  

- **Progress bar** - Displays the current position and total playing time.
- **Disc Menu** - Accesses menu on a disc.
- **Title/Popup** - Displays the DVD title menu or BD-ROM's pop-up menu, if available.
- **Option** - Displays playback information.
- **Repeat** - Repeats a desired section or sequence. (page 29)

Displaying content information on-screen

<table>
<thead>
<tr>
<th>BD</th>
<th>DVD</th>
<th>AVCHD</th>
<th>MOVIE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>During playback, press INFO/MENU (бережетел).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Select [Option] using ( \uparrow / \downarrow ) , and press ENTER (бережетел).</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**Note**

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

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

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

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

1. [Slide show] - Starts or pause slide show.
2. [Music] - Select the background music for the slide show (page 33).
4. [Rotate] - Rotates the photo clockwise.
5. [Zoom] - Displays the [Zoom] menu.

Setting the slide show option

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

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

1. [Speed] - Use ← / → to select a delaying speed between photos in a slide show.
2. [Effect] - Use ← / → to select a transition effect between photos in a slide show.
3. [Music Select] – Select the background music for the slide show (page 33).
Advanced Playback

Repeat playback

BD  DVD  AVCHD  ACD  MUSIC  MOVIE

Blu-ray Disc / DVD / Video files
During playback, press REPEAT ( ) to select a desired repeat mode.
A-B – Selected portion will be repeated continually.
Chapter – The current chapter will be played back repeatedly.
Title – The current title will be played back repeatedly.
All – All the titles or files will be played back repeatedly.
Off – Returns to normal playback.

Audio CDs/Audio files
During playback, press REPEAT ( ) repeatedly to select a desired repeat mode.
Track – The current track or file will be played back repeatedly.
All – All the tracks or files will be played back repeatedly.
All – All the tracks or files will be played back repeatedly in random order.
– The tracks or files will be played back in random order.

Note
This function may not work on some disc or title.

Repeating a specific portion

This player can repeat a portion you have selected.
1. During playback, press REPEAT ( ).
3. Press ENTER ( ) at the beginning of the portion you wish to repeat.
4. Press ENTER ( ) at the end of the portion. Your selected portion will be repeated continually.

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

Playing from selected time

1. During playback, press INFO/MENU ( ).
3. Select the [Time] option and then input the required start time in hours, minutes, and seconds from left to right.
   For example, to find a scene at 2 hours, 10 minutes, and 20 seconds, enter “21020”.
   Press ▲/▼ to skip the playback 60 seconds forward or backward.
4. Press ENTER ( ) to start playback from selected time.

Note
This function may not work on some disc or titles.
Selecting a subtitle language

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

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

Hearing a different audio

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

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

Watching from a different angle

1. During playback, press INFO/MENU ( ).
3. Use ▲/▼ to select the [Angle] option.
4. Use ▲/▼ to select desired angle.
5. Press BACK ( ) to exit the On-Screen display.

Changing the TV Aspect Ratio

You can change the TV aspect ratio setting during playback.

1. During playback, press INFO/MENU ( ).
3. Use ▲/▼ to select the [TV Aspect Ratio] option.
4. Use ▲/▼ to select desired option.
5. Press BACK ( ) to exit the On-Screen display.

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

MOVIE

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

1. During playback, press INFO/MENU (m).
3. Use ▲/▼ to select the [Code Page] option.
4. Use ◀/▶ to select desired code option.
5. Press BACK (udiante) to exit the On-Screen display.

Changing the Picture Mode

BD DVD AVCHD MOVIE

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

1. During playback, press INFO/MENU (m).
3. Use ▲/▼ to select the [Picture Mode] option.
4. Use ◀/▶ to select desired option.
5. Press BACK (udiante) to exit the On-Screen display.

Setting the [User setting] option

1. During playback, press INFO/MENU (m).
3. Use ▲/▼ to select the [Picture Mode] option.
4. Use ◀/▶ to select the [User setting] option, and press ENTER (b).
5. Use ▲/▼/◀/▶ to adjust the [Picture Mode] options.
Select [Default] option then press ENTER (b) to reset the all video adjustments.
6. Use ▲/▼/◀/▶ to select the [Close] option, and press ENTER (b) to finish setting.
Viewing content information

**MOVIE**

The player can display the content information.

1. Select a file using ▲/▼/◄/►.
2. Press INFO/MENU (m) to display the option menu.

   The file information appears on the screen.

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

   **Note**

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

Changing content list view

**MOVIE MUSIC PHOTO**

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

Press red (R) coloured button repeatedly.

Selecting a subtitle file

**MOVIE**

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

1. Use ▲/▼/◄/► to select the subtitle file you wish to play in the [Movie] menu.
2. Press ENTER (b).

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

**Note**

If you press ■ (STOP) during playback, the subtitle selection is cancelled.
Listening to music during slide show

PHOTO

You can display photo files while listening to audio files.

1. While viewing a photo in full screen, press INFO/MENU (MENU) to display the option menu.


3. Use ▲/▼ to select [Music Select] option, and press ENTER (ENTER) to display the [Music Select] menu.

4. Use ▲/▼ to select a device, and press ENTER (ENTER).
   Available device may differ depending on the location of the current photo file.

<table>
<thead>
<tr>
<th>Photo location</th>
<th>Available Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disc, USB</td>
<td>Disc, USB</td>
</tr>
<tr>
<td>MTP</td>
<td>MTP</td>
</tr>
</tbody>
</table>

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

![Music Select](image)

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

6. Use ► to select [OK], and press ENTER (ENTER) to complete music selection.
Audio CD recording

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

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

<table>
<thead>
<tr>
<th>Stop mode</th>
<th>During playback</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recording track</td>
<td>All of the tracks</td>
</tr>
<tr>
<td>Recording time</td>
<td>4X speed</td>
</tr>
</tbody>
</table>

Note

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

Caution

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

Be Responsible
Respect Copyrights
## Troubleshooting

### General

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

<table>
<thead>
<tr>
<th>Issue</th>
<th>Cause &amp; Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>There is no picture.</td>
<td>• Select the appropriate video input mode on the TV so the picture from the unit appears on the TV screen.</td>
</tr>
<tr>
<td></td>
<td>• Connect the video connection securely.</td>
</tr>
<tr>
<td></td>
<td>• Check the [HDMI Color Setting] in the [Settings] menu is set to the appropriate item that conforms to your video connection.</td>
</tr>
<tr>
<td></td>
<td>• Your TV may not support the resolution you have set on the player. Change the resolution that your TV accepts.</td>
</tr>
<tr>
<td></td>
<td>• The player’s HDMI OUT jack is connected to a DVI device that does not support copyright protection.</td>
</tr>
<tr>
<td>Picture noise appears</td>
<td>• You are playing a disc recorded in a colour system that is different from your TV.</td>
</tr>
<tr>
<td></td>
<td>• Set the resolution which your TV accepts.</td>
</tr>
</tbody>
</table>

**Customer support**

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

**Open source software notice**

To obtain the corresponding source code under GPL, LGPL and other open source licenses, please visit [http://opensource.lge.com](http://opensource.lge.com). All referred license terms, warranty disclaimers and copyright notices are available to download with the source code.
Controlling a TV with the Supplied Remote Control

You can control your TV using the buttons below.

![Remote Control Example]

<table>
<thead>
<tr>
<th>By pressing</th>
<th>You can</th>
</tr>
</thead>
<tbody>
<tr>
<td>(TV POWER)</td>
<td>Turn the TV on or off.</td>
</tr>
<tr>
<td>INPUT</td>
<td>Switch the TV's input source between the TV and other input sources.</td>
</tr>
<tr>
<td>VOL +/-</td>
<td>Adjust the volume of the TV</td>
</tr>
</tbody>
</table>

⚠️ Note

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

Setting up the remote to control your TV

You can operate your TV with the supplied remote control.

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

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

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Code Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>LG</td>
<td>1 (Default), 2</td>
</tr>
<tr>
<td>Zenith</td>
<td>1, 3, 4</td>
</tr>
<tr>
<td>GoldStar</td>
<td>1, 2</td>
</tr>
<tr>
<td>Samsung</td>
<td>6, 7</td>
</tr>
<tr>
<td>Sony</td>
<td>8, 9</td>
</tr>
<tr>
<td>Hitachi</td>
<td>4</td>
</tr>
</tbody>
</table>

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

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

### File requirement

#### Video files

<table>
<thead>
<tr>
<th>File Location</th>
<th>File Extension</th>
<th>Codec Format</th>
<th>Audio Format</th>
<th>Subtitle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disc, USB</td>
<td>.avi, .divx, .mpg, .mpeg, .mkv, .mp4, .asf, .wmv, .m4v (DRM free), .vob, .3gp, .mov, .trp, .m2t, .mpe, .m1v, .m2v, .wm, .flv, .ts, .dat</td>
<td>DIVX 3.11, DIVX4, DIVX5, DIVX6 (standard playback only), XVID, MPEG1 SS, H.264/MPEG-4 AVC, MPEG2 PS, MPEG2 TS, VC-1 SM (WMV3)</td>
<td>Dolby Digital, DTS, MP3, WMA, AC3, AAC</td>
<td>SubRip (.srt/.txt), SAMI (.smi), SubStation Alpha (.ssa/.txt), MicroDVD (.sub/.txt), VobSub (.sub), SubViewer 1.0 (.sub), SubViewer 2.0 (.sub/.txt), TMPlayer (.txt), DVD Subtitle System (.txt)</td>
</tr>
</tbody>
</table>

#### Audio files

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

#### Photo files

<table>
<thead>
<tr>
<th>File Location</th>
<th>File Extension</th>
<th>Recommended Size</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disc, USB</td>
<td>.jpg, .jpeg, .png, .gif</td>
<td>Less than 4,000 x 3,000 x 24 bit/pixel Less than 3,000 x 3,000 x 32 bit/pixel</td>
<td>Progressive and lossless compression photo image files are not supported.</td>
</tr>
</tbody>
</table>
The file name is limited to 180 characters.
- Maximum files/Folder: Less than 2000 (total number of files and folders)
- Depending on the size and number of the files, it may take several minutes to read the content on the media.
- The file requirements on page 38 are not always compatible. There may be some restrictions by file features.
- The total playback time of audio file indicated on the screen may not correct for VBR files.
- HD video files contained on the CD/DVD or USB 1.0/1.1 may not play back properly. Blu-ray Disc or USB 2.0 are recommended to play back HD video files.
- This player supports H.264/MPEG-4 AVC profile Main, High at Level 4.1. For a file with higher level, the warning message will appear on the screen.
- This player does not support files that are recorded with GMC*1 or Qpel*2.

*1 GMC – Global Motion Compensation  
*2 Qpel – Quarter pixel

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

**AvCHD (Advanced Video Codec High Definition)**
- This player can playback AVCHD format discs. These discs are normally recorded and used in camcorders.
- The AVCHD format is a high definition digital video camera format.
- The MPEG-4 AVC/H.264 format is capable of compressing images at higher efficiency than that of the conventional image compressing format.
- This player can playback AVCHD discs using “x.v.Colour” format.
- Some AVCHD format discs may not play depending on the recording condition.
- AVCHD format discs need to be finalized.
- “x.v.Colour” offers a wider colour range than normal DVD camcorder discs.
Certain system requirements
For high definition video playback:
- High definition display that has HDMI input jack.
- BD-ROM disc with high definition content.
- HDMI or HDCP capable DVI input on your display device is required for some content (as specified by disc authors).

For Dolby® Digital Plus, Dolby TrueHD and DTS-HD multi-channel audio playback:
- An amplifier/receiver with a built-in (Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS or DTS-HD) decoder.

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

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

<table>
<thead>
<tr>
<th>Source</th>
<th>Jack/Setting</th>
<th>HDMI OUT</th>
<th>Audio (\text{#1 #2})</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dolby Digital</td>
<td>PCM 2ch</td>
<td>DTS Re-encode *3</td>
<td>Dolby Digital</td>
</tr>
<tr>
<td>Dolby Digital Plus</td>
<td>PCM 2ch</td>
<td>DTS</td>
<td>Dolby Digital Plus</td>
</tr>
<tr>
<td>Dolby TrueHD</td>
<td>PCM 2ch</td>
<td>DTS</td>
<td>Dolby TrueHD</td>
</tr>
<tr>
<td>DTS</td>
<td>PCM 2ch</td>
<td>DTS</td>
<td>DTS</td>
</tr>
<tr>
<td>DTS-HD</td>
<td>PCM 2ch</td>
<td>DTS</td>
<td>DTS-HD</td>
</tr>
<tr>
<td>Linear PCM 2ch</td>
<td>PCM 2ch</td>
<td>DTS 2ch</td>
<td>Linear PCM 2ch</td>
</tr>
<tr>
<td>Linear PCM 5.1ch</td>
<td>PCM 5.1ch</td>
<td>DTS</td>
<td>Linear PCM 5.1ch</td>
</tr>
<tr>
<td>Linear PCM 7.1ch</td>
<td>PCM 7.1ch</td>
<td>DTS</td>
<td>Linear PCM 7.1ch</td>
</tr>
</tbody>
</table>

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

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

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

- The audio is outputted up to PCM 48 kHz/16 bit for MP3/WMA file and PCM 44.1kHz/16 bit for Audio CD during playback.
- You must select a digital audio output and a maximum sampling frequency that your Amplifier (or AV receiver) accepts using [Digital Output] and [Sampling Freq.] options on the [Settings] menu (page 19).
- With digital audio connection (HDMI OUT), Disc Menu button sounds of BD-ROM may not be heard if the [Digital Output] option is set to [Auto].
- If the audio format of the digital output does not match the capabilities of your receiver, the receiver will produce a strong, distorted sound or no sound at all.
- Multi-channel Digital Surround Sound via digital connection can only be obtained if your receiver is equipped with a Digital Multi-channel decoder.
# Area Code List

Choose an area code from this list.

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

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

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Afar</td>
<td>6565</td>
<td>French</td>
<td>7082</td>
<td>Lithuanian</td>
<td>7684</td>
<td>Sindhi</td>
<td>8368</td>
</tr>
<tr>
<td>Afrikaans</td>
<td>6570</td>
<td>Frisian</td>
<td>7089</td>
<td>Macedonian</td>
<td>7775</td>
<td>Singhalese</td>
<td>8373</td>
</tr>
<tr>
<td>Albanian</td>
<td>8381</td>
<td>Galician</td>
<td>7176</td>
<td>Malagasy</td>
<td>7771</td>
<td>Slovak</td>
<td>8375</td>
</tr>
<tr>
<td>Amharic</td>
<td>6577</td>
<td>Georgian</td>
<td>7565</td>
<td>Malay</td>
<td>7783</td>
<td>Slovenian</td>
<td>8376</td>
</tr>
<tr>
<td>Arabic</td>
<td>6582</td>
<td>German</td>
<td>6869</td>
<td>Malayalam</td>
<td>7776</td>
<td>Spanish</td>
<td>6983</td>
</tr>
<tr>
<td>Armenian</td>
<td>7289</td>
<td>Greek</td>
<td>6976</td>
<td>Maori</td>
<td>7773</td>
<td>Sudanese</td>
<td>8385</td>
</tr>
<tr>
<td>Assamese</td>
<td>6583</td>
<td>Greenlandic</td>
<td>7576</td>
<td>Marathi</td>
<td>7782</td>
<td>Swahili</td>
<td>8387</td>
</tr>
<tr>
<td>Aymara</td>
<td>6588</td>
<td>Guaraní</td>
<td>7185</td>
<td>Moldavian</td>
<td>7779</td>
<td>Swedish</td>
<td>8386</td>
</tr>
<tr>
<td>Azerbaijani</td>
<td>6590</td>
<td>Gujarati</td>
<td>7265</td>
<td>Mongolian</td>
<td>7778</td>
<td>Tagalog</td>
<td>8476</td>
</tr>
<tr>
<td>Bashkir</td>
<td>6665</td>
<td>Hausa</td>
<td>7387</td>
<td>Nepali</td>
<td>7869</td>
<td>Tamil</td>
<td>8465</td>
</tr>
<tr>
<td>Basque</td>
<td>6985</td>
<td>Hebrew</td>
<td>7273</td>
<td>Norwegian</td>
<td>7879</td>
<td>Telugu</td>
<td>8469</td>
</tr>
<tr>
<td>Bengali; Bangla</td>
<td>6678</td>
<td>Hindi</td>
<td>7285</td>
<td>Oriya</td>
<td>7982</td>
<td>Thai</td>
<td>8472</td>
</tr>
<tr>
<td>Bhutani</td>
<td>6890</td>
<td>Hungarian</td>
<td>7383</td>
<td>Panjabi</td>
<td>8065</td>
<td>Tonga</td>
<td>8479</td>
</tr>
<tr>
<td>Bihari</td>
<td>6672</td>
<td>Icelandic</td>
<td>7387</td>
<td>Pashto, Pushto</td>
<td>8083</td>
<td>Turkish</td>
<td>8482</td>
</tr>
<tr>
<td>Breton</td>
<td>6682</td>
<td>Indonesian</td>
<td>7365</td>
<td>Persian</td>
<td>7065</td>
<td>Turkmen</td>
<td>8475</td>
</tr>
<tr>
<td>Bulgarian</td>
<td>6671</td>
<td>Interlingua</td>
<td>7079</td>
<td>Polish</td>
<td>8076</td>
<td>Twi</td>
<td>8487</td>
</tr>
<tr>
<td>Burmese</td>
<td>7789</td>
<td>Irish</td>
<td>7165</td>
<td>Portuguese</td>
<td>8084</td>
<td>Ukrainian</td>
<td>8575</td>
</tr>
<tr>
<td>Byelorussian</td>
<td>6669</td>
<td>Italian</td>
<td>7384</td>
<td>Quechua</td>
<td>8185</td>
<td>Urdu</td>
<td>8582</td>
</tr>
<tr>
<td>Chinese</td>
<td>9072</td>
<td>Japanese</td>
<td>7465</td>
<td>Russian</td>
<td>8285</td>
<td>Uzbek</td>
<td>8590</td>
</tr>
<tr>
<td>Croatian</td>
<td>7282</td>
<td>Kannada</td>
<td>7588</td>
<td>Rhaeto-Romance</td>
<td>8277</td>
<td>Vietnamese</td>
<td>8673</td>
</tr>
<tr>
<td>Czech</td>
<td>6783</td>
<td>Kashmíri</td>
<td>7583</td>
<td>Rumanian</td>
<td>8279</td>
<td>Volapük</td>
<td>8679</td>
</tr>
<tr>
<td>Danish</td>
<td>6865</td>
<td>Kazakh</td>
<td>7575</td>
<td>Sanskrit</td>
<td>8365</td>
<td>Welsh</td>
<td>6789</td>
</tr>
<tr>
<td>Dutch</td>
<td>7876</td>
<td>Kirghiz</td>
<td>7589</td>
<td>Serbian</td>
<td>8382</td>
<td>Wolof</td>
<td>8779</td>
</tr>
<tr>
<td>English</td>
<td>6978</td>
<td>Korean</td>
<td>7579</td>
<td>Scots Gaelic</td>
<td>7168</td>
<td>Xhosa</td>
<td>8872</td>
</tr>
<tr>
<td>Esperanto</td>
<td>6979</td>
<td>Kurdish</td>
<td>7585</td>
<td>Serbian</td>
<td>8382</td>
<td>Yiddish</td>
<td>7473</td>
</tr>
<tr>
<td>Estonian</td>
<td>6984</td>
<td>Laotian</td>
<td>7679</td>
<td>Serbo-Croatian</td>
<td>8372</td>
<td>Yoruba</td>
<td>8979</td>
</tr>
<tr>
<td>Faroese</td>
<td>7079</td>
<td>Latin</td>
<td>7665</td>
<td>Shona</td>
<td>8378</td>
<td>Zulu</td>
<td>9085</td>
</tr>
<tr>
<td>Fiji</td>
<td>7074</td>
<td>Latvian, Lettish</td>
<td>7686</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Finnish</td>
<td>7073</td>
<td>Lingala</td>
<td>7678</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Trademarks and Licenses

Blu-ray Disc™, Blu-ray™, BONUSVIEW™ and the logos are trademarks of the Blu-ray Disc Association.

“DVD Logo” is a trademark of DVD Format/Logo Licensing Corporation.

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

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

“x.v.Colour” is a trademark of Sony Corporation.

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

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

“AVCHD” and the “AVCHD” logo are trademarks of Panasonic Corporation and Sony Corporation.

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

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

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

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

## General

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power requirements</td>
<td>Refer to main label on the rear panel.</td>
</tr>
<tr>
<td>AC adapter</td>
<td>WA-12M12FN</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>Approx. 270 x 39 x 198 mm</td>
</tr>
<tr>
<td>Net Weight (Approx.)</td>
<td>0.84 kg</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>5 °C - 35 °C</td>
</tr>
<tr>
<td>Operating humidity</td>
<td>5 % - 90 %</td>
</tr>
</tbody>
</table>

## Outputs

<table>
<thead>
<tr>
<th>Output</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDMI OUT (video/audio)</td>
<td>19 pin (Type A, HDMI™ Connector)</td>
</tr>
</tbody>
</table>

## System

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laser</td>
<td>Semiconductor laser</td>
</tr>
<tr>
<td>wavelength</td>
<td>405 nm / 650 nm</td>
</tr>
<tr>
<td>Signal system</td>
<td>Standard PAL/NTSC colour TV system</td>
</tr>
<tr>
<td>Bus Power Supply (USB)</td>
<td>5 V 500 mA</td>
</tr>
</tbody>
</table>

- Design and specifications are subject to change without notice.
Maintenance

Handling the unit

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

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

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

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

Notes on discs

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

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

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

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