



ENGLISH

OWNER'S MANUAL

HDD / DVD RECORDER

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

RH735T / RH733T / RH732T / RH731T



SAC35715803

www.lg.com

Safety Information



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



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



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

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

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

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

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



CAUTION: This product employs a Laser System. To ensure proper use of this product, please read this owner's manual carefully and retain it for future reference. Shall the unit require maintenance, contact an authorized service centre. Use of controls, adjustments or the performance of procedures other than those specified herein may result in hazardous radiation exposure. To prevent direct exposure to laser beam, do not try to open the enclosure.

CAUTION concerning the Power Cord

Most appliances recommend they be placed upon a dedicated circuit;

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

This device is equipped with a portable battery or accumulator.

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

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

Disposal of your old appliance



1. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
2. All electrical and electronic products shall be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

Disposal of waste batteries/accumulators



1. When this crossed-out wheeled bin symbol is attached to batteries/accumulators of Your product it means they are covered by European Directive 2006/66/EC.
2. This symbol may be combined with chemical symbols for mercury(Hg), cadmium(Cd) or lead(Pb) if the battery Contains more than 0.0005% of mercury, 0.002% of cadmium or 0.004% of lead.
3. All batteries/accumulators should be disposed separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
4. The correct disposal of Your old batteries/ accumulators will help to prevent potential negative consequences for the environment, animal and human health.
5. For more detailed information about disposal of Your old batteries/accumulators, please contact Your city office, waste disposal service or the shop where You purchased the product.



LG Electronics hereby declares that this/these product(s) is/are in compliance with the essential requirements and other relevant provisions of Directive 2004/108/EC, 2006/95/EC, 2009/125/EC and 2011/65/EU.

Contact office for compliance of this product :

LG Electronics Inc.
EU Representative, Krijgsmann 1,
1186 DM Amstelveen, The Netherlands

- Please note that this is NOT a Customer Service contact point. For Customer Service Information, see Warranty Card or contact the dealer that you purchased this product.

Notes on Copyrights

- Recording equipment should be used only for lawful copying and you are advised to check carefully what is lawful copying in the area in which you are making a copy. Copying of copyright material such as films or music is unlawful unless permitted by a legal exception or consented to by the rights owner.
- 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.
- CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 625 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 625p UNIT PLEASE CONTACT OUR CUSTOMER SERVICE CENTRE.
- Many 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.
- Under the U.S. Copyright laws and Copyright laws of other countries, unauthorized recording, use, display, distribution, or revision of television programs, videotapes, 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.

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Introduction

Playable discs and symbols used in this manual

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

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 DVD discs labelled same as the rear of the unit or “ALL”.

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.
- Do not attach any seal or label to either side (the labeled side or the recorded side) of a disc.
- Do not use irregularly shaped CDs (e.g., heart-shaped or octagonal). Doing so may result in malfunctions.
- Depending on the recording software & the finalization, some recorded discs (CD-R/RW, DVD±R/RW) may not be playable.
- DVD-R/RW, 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 Recorder'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.

Compatibility Notes

- Viewing high-definition content and up-converting standard DVD content may require a HDMI-capable input or HDCP-capable DVI input on your display device.
- Some DVD discs may restrict the use of some operation commands or features.

- You can use a USB device that is used to store some disc related information. The disc you are using will control how long this information is retained.

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 the conventional image compressing format.
- Some AVCHD discs use the "x.v.Color" format.
- This player can playback AVCHD discs using "x.v.Color" format.
- Some AVCHD format discs may not be played, depending on the recording condition.
- AVCHD format discs need to be finalized.
- "x.v.Color" offers a wider colour range than normal DVD camcorder discs.

System Requirements

For high definition video playback:

- High definition display that has HDMI input jacks.
- HDMI or HDCP capable DVI input on your display device is required for some content (as specified by disc authors).
- For up-conversion of standard definition DVD, a HDMI or HDCP capable DVI input on your display device is required for copy-protected content.

For Dolby® Digital Plus, Dolby TrueHD audio playback:

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

Recordable Discs

 	DVD-R/ DVD+R(DL): <ul style="list-style-type: none"> - Format is available (only 1 time), with UDF type - Record is available over and over (Multi-session is supported) - You may need to finalize a disc to play it with different unit. Once a disc is finalized, you can't record any more.
 	DVD-RW/ DVD+RW: <ul style="list-style-type: none"> - Format is available repeatedly, with UDF type - Record is available over and over (Single-session is supported).

Recommended recordable DVD discs

DVD-R	Mitsubishi (8x, 16x), Verbatim (8x, 16x)
DVD-RW	Mitsubishi (8x, 16x), Verbatim (8x, 16x), JVC (4x), Maxell (4x)
DVD+R	Mitsubishi (8x, 16x), Verbatim (8x, 16x)
DVD+R(DL)	Verbatim (8x, 4x), MKM (8x, 4x), CMC (4x), RITEK (4x)
DVD+RW	Mitsubishi (8x, 16x), HP (4x), Verbatim (4x), Ricoh (4x)

Note

- If a DVD-RW/DVD+RW disc is recorded using a personal computer or other DVD recorder, you cannot format the disc using this recorder. So if you want to use the disc on this recorder, you must format the disc using the original recorder.
- While recording, in case of DVD-R/+R disc, there may be noise from the unit. But it is not a problem.
- Recordable DVD is used only for Recorded Title Copy. (Please look at Page 50 Using the Recording title Copy)
- Recorded Title is copied as TS Format File to Recordable DVD. So Disc copied on this unit may not played on other player or recorder.

File compatibility

Overall

Available File extensions: ".jpg", ".jpeg", ".png", ".avi", ".divx", ".mpg", ".mpeg", ".mkv", ".mp4", ".ts", ".mp3", ".wma", ".m4a"

- The file name is limited to 128 characters.
- Depending on the size and number of the files, it may take several minutes to read the contents on the media.

Maximum Files/Folder: Less than 2000 (total number of files and folders)

CD-R/RW, DVD±R/RW:

ISO 9660+JOLIET, UDF and UDF Bridge format

MOVIE

Available resolution: 1920 x 1080 (W x H) pixels

Playable subtitle: SubRip (.srt / .txt), SAMI (.smi), SubStation Alpha (.ssa/.txt), MicroDVD (.sub/.txt), SubViewer 1.0 (.sub), SubViewer 2.0 (.sub/.txt), DVD Subtitle System (.txt), TMPlayer (.txt)

Playable Codec format: "DIVX 3.11", "DIVX4", "DIVX5", "DIVX6", "MPEG4 PART2", "MPEG4 VISUAL" "XVID" (Standard playback only), H.264/MPEG-4 AVC, MPEG2 PS, MPEG2 TS

- "DIVX3", "DIVX4", "DIVX5", "DIVX6", "XVID", "MPEG4 PART2", "MPEG4 VISUAL": Less than 720 x 576 (resolution) and 5Mbps (Bitrate)

Playable Audio format: "Dolby Digital", "DTS", "MP3", "WMA", "AAC"

- Not all the WMA and AAC Audio formats are compatible with this unit.
- MPEG2 Audio Codec are not supported on this unit.
- DTS is only available when this unit is connected to the equipment supporting DTS.

Sampling frequency: within 32 - 48 kHz (WMA), within 32 - 48 kHz (MP3)

Bit rate: within 20 - 320 kbps (WMA), within 32 - 320 kbps (MP3)

! Note

- HD movie files contained on the CD or USB 1.0/1.1 may not be played properly. DVD or USB 2.0 are recommended to play back HD movie files.
- This unit supports H.264/MPEG-4 AVC profile Main, High at Level 4.1.
- This unit does not support the file that are recorded with GMC*¹ or Qpel*². Those are video encoding techniques in MPEG4 standard, like DivX or XVID.
 - *1 GMC – Global Motion Compensation
 - *2 Qpel – Quarter pixel
- HD movie files that need high performance playback could react slowly.
- The total playback time indicated on the screen may not be correct for .ts files.

PNG File

- 64bits : Less than 1M pixel, Max width 4096 pixel
- 32bits : Less than 2M pixel, Max width 4096 pixel

! Note

Depending on the size and number of the JPEG files, it may take several minutes to read the contents of the media.

Thumbnail image:

JPG File : Less than 16M pixel, Max width 6000 pixel

PNG File : Less than 16M pixel, Max width 4096 pixel

- This unit just supports Baseline JPG and 32bits PNG in thumbnail.

MUSIC

Sampling frequency: between 8 - 48 kHz (WMA), within 32 kHz - 48 kHz (MP3)

Bit rate: between 32 - 320 kbps (MP3) and between 8 - 320 kbps (WMA)

! Note

The total playback time indicated on the screen may not be correct for VBR files.

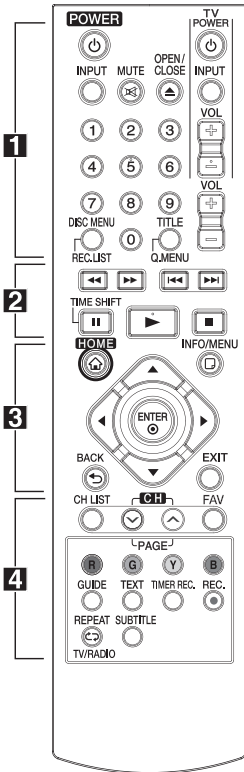
PHOTO

Recommended size:

JPG File

- Baseline JPG : Less than 16M pixel, Max width 6000 pixel
- Progressive JPG : Less than 4M pixel, Max width 6000 pixel

Remote control



..... **1**

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

INPUT: Changes the input for recording (Tuner or AV mode).

MUTE (🔇): Mutes the sound.

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

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

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

TITLE/Q.MENU: Displays the DVD title menu or sets options menu, if available.

TV (TV Control Buttons): See page 55.

VOL (-/+): Adjusts the sound level of the unit.

..... **2**

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

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

■ (STOP): Stops playback.

▶ (PLAY): Starts playback.

⏸ (PAUSE): Pauses playback.

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

..... **3**

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

INFO/MENU (ℹ): 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.

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

..... **4**

CH LIST: Displays the Channel list.

CH/PAGE (V / ^): Scans up or down through memorized programmes or previous or next viewing page.

FAV: Displays the favourite programme list.

Coloured (R, G, Y, B) buttons: Use to navigate screen menus.

GUIDE: Displays the programme guide menu.

TEXT: Switches between teletext mode and normal TV viewing.

TIMER REC.: Displays [Timer Recording] menu.

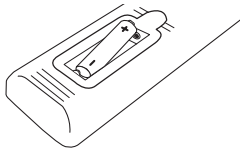
REC. (●): Starts recording.

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

TV/RADIO: Switches between TV and radio channel.

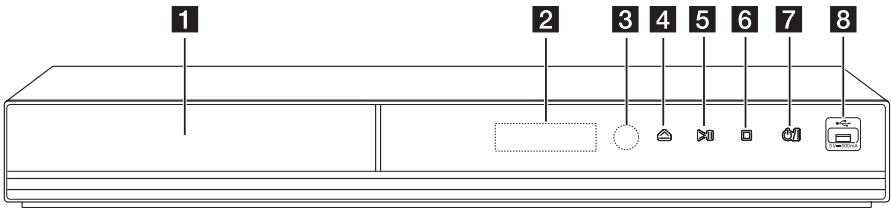
SUBTITLE: Selects a subtitle language.

Battery Installation

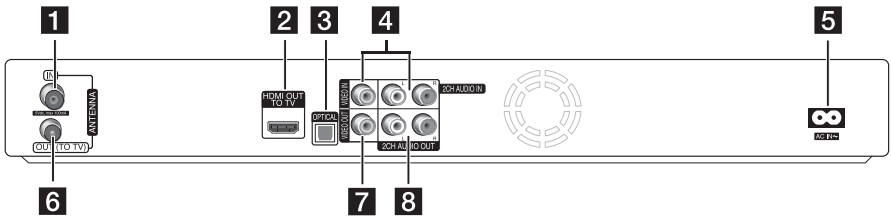


Remove the battery cover on the rear of the Remote Control, and insert a R03 (size AAA) battery with **+** and **-** matched correctly.

Main Unit



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



- | | |
|--|--|
| 1 ANTENNA IN | 5 AC IN connector
Connect the supplied power cord. |
| 2 HDMI OUT (TO TV) | 6 ANTENNA OUT (TO TV) |
| 3 OPTICAL (DIGITAL AUDIO OUT) | 7 VIDEO OUT |
| 4 VIDEO IN/2CH AUDIO IN (Left/Right)
Connect the audio/video output of an external source. | 8 2CH AUDIO OUT (Left/Right) |

Connections to Your TV

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

- Antenna connection (page 14)
- HDMI connection (page 15)
- Video/Audio (Left/Right) Connection (page 16)

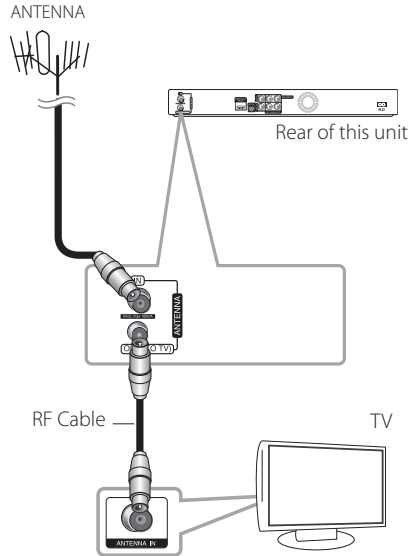
! Note

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

Antenna connection to your TV and this unit

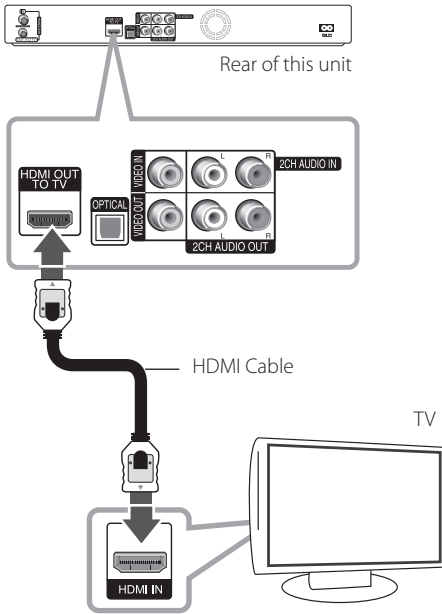
Connect one end of the RF cable to ANTENNA OUT(TO TV) jack on the unit and other end to ANTENNA IN jack on your TV. Passes the signal from the ANTENNA IN jack to your TV/monitor.

Connect the Terrestrial TV antenna to the ANTENNA IN jack on the unit. If you want to use an indoor antenna, use one with a signal amplifier rated at 5V, 100 mA and set [Antenna 5V] to [ON] in the setup menu (See page 25).



HDMI Connection

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



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

! Note

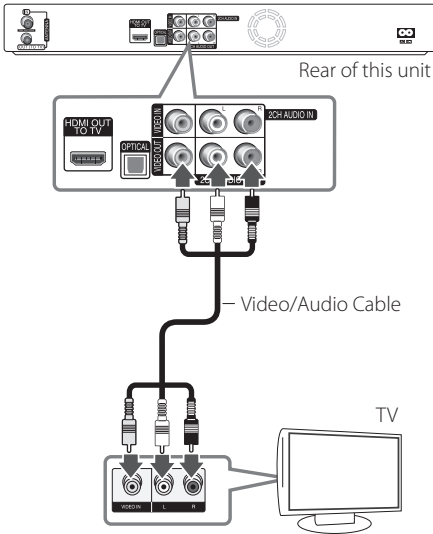
- If a connected HDMI device does not accept the audio output of the unit, the HDMI device's audio sound may be distorted or may not output.
- When you use HDMI connection, you can change the resolution for the HDMI output. (Refer to "Resolution Setting" on page 16.)
- Select the type of video output from the HDMI OUT jack using [HDMI Color Setting] option on the [Setting] menu (see page 26).
- 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 is noise or lines on the screen, please check the HDMI cable (length is generally limited to 4.5m).

Additional Information for HDMI

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

Video/Audio (Left/Right) Connection

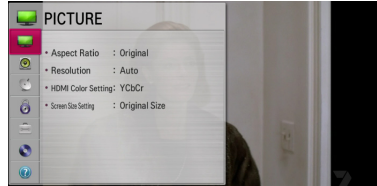
Connect the VIDEO OUT jack on the unit to the video in jack on the TV using the video cable supplied. Connect the Left and Right AUDIO OUT jacks on the unit to the audio left/right in jacks on the TV using the supplied audio cables.



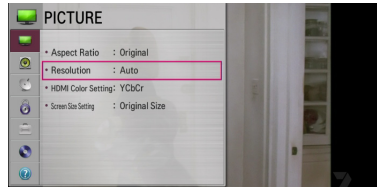
Resolution Setting

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

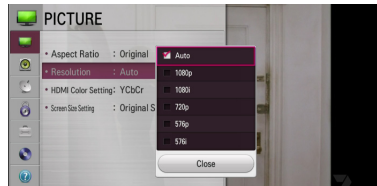
1. Press HOME (🏠).
2. Use ◀/▶ to select the [Setting] and press ENTER (⊙). The [Setting] menu appears.



3. Use ▲/▼ to select [PICTURE] option then press ▶ or ENTER (⊙) to move to the second level.



4. Use ▲/▼ to select the [Resolution] option then press ENTER (⊙) to move to the third level.



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

! Note

If your TV is NTSC SYSTEM, resolution can be set only for AUTO mode.

Connecting to an Amplifier

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

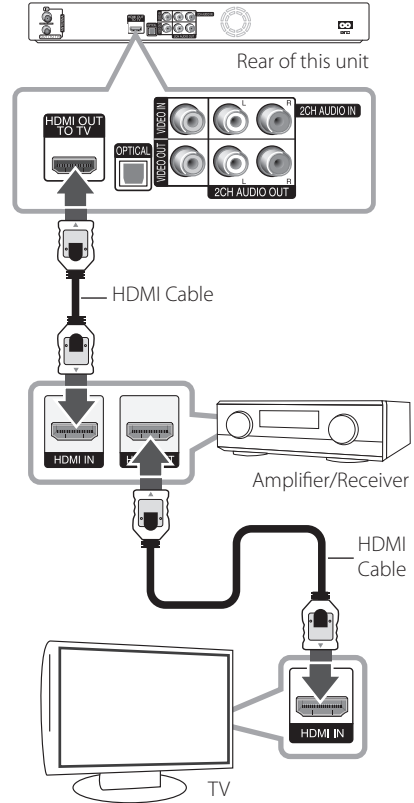
- HDMI Audio connection (page 17)
- Digital Audio connection (page 18)
- Connecting to an Amplifier via Digital Audio Output (page 18)
- Connecting to an Amplifier via 2 Channel Audio Output (page 18)

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 unit. Check the receiver manual and the logos on the front of the receiver. (PCM Stereo, Dolby Digital, Dolby Digital Plus and/or DTS)

Connecting to an Amplifier via HDMI Output

Connect the unit's HDMI OUT jack to the corresponding in jack on your amplifier using a HDMI cable. You will need to activate the unit's digital output. (See "[SOUND] Menu" on page 27.)

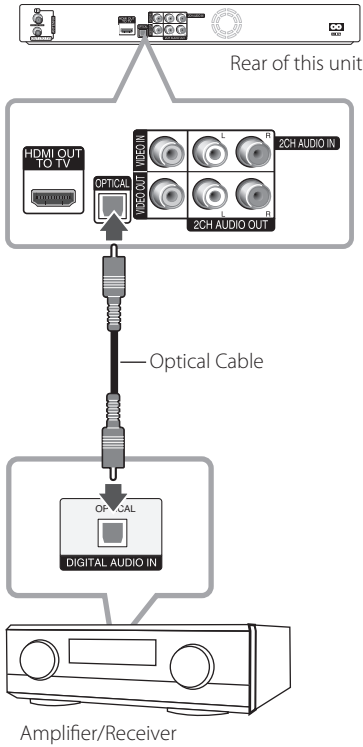


Connect the amplifier's HDMI output jack to HDMI input jack on your TV using a HDMI cable if your amplifier has HDMI output jack.

Connecting to an Amplifier via Digital Audio Output

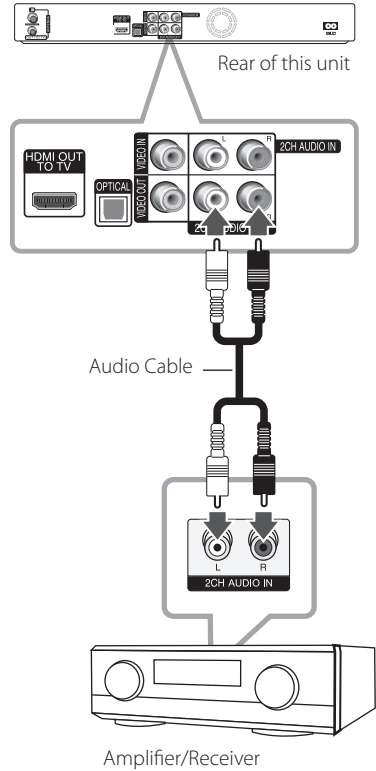
Connect the unit's OPTICAL (DIGITAL AUDIO OUT) jack to the corresponding in jack (OPTICAL) on your amplifier.

Use an optional digital (OPTICAL) audio cable. You will need to activate the unit's digital output. (See "[SOUND] Menu" on page 27.)



Connecting to an Amplifier via 2 Channel Audio Output

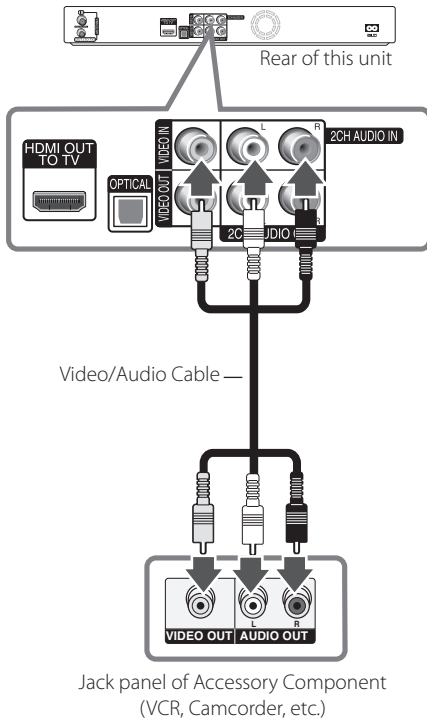
Connect the Left and Right 2CH AUDIO OUT jacks on the unit to the audio left and right in jacks on your amplifier, receiver, or stereo system, using audio cables.



Connection to Another device

Accessory Video/Audio/ Connections to Recorder

Connect the input jacks (VIDEO IN/2 CH AUDIO IN) on the unit to the video/audio out jacks on your accessory component, using video/audio cables.

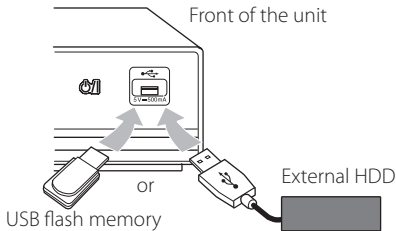


USB device connection

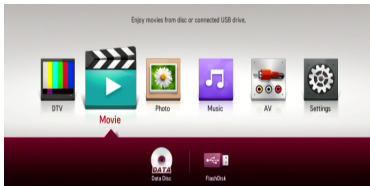
This unit can play movie, music and photo files contained on a USB device.

Playback content in the USB device

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



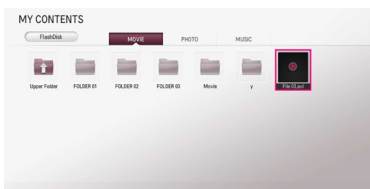
2. Press HOME (🏠).
3. Select [Movie], [Photo] or [Music] using ◀/▶, and press ENTER (⊙).



4. Select the [(USB)] option using ▲/▼/◀/▶, and press ENTER (⊙).



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



6. Withdraw the USB device carefully after exiting the USB mode.

! Note

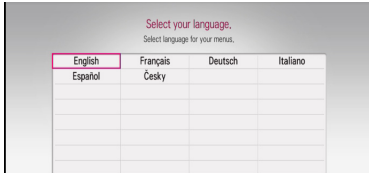
- The external USB HDD for recording has to be formatted in NTFS.
- Please use the Internal HDD or USB flash memory/external HDD formatted in either FAT16/FAT32 or NTFS when accessing files (audio, photo, video).
- This unit can support up to 4 partitions of the USB device.
- Do not extract the USB device during operation (play, recording, etc.).
- A USB device which requires additional programme installation when you have connected it to a computer, is not supported.
- USB device: USB device that supports USB1.1 and USB2.0.
- This unit can play Movie, Music and Photo files in USB. For details of operations on each file, refer to relevant pages. (pages 44-47)
- Regular back up is recommended to prevent data loss.
- If you use a USB extension cable, HUB or USB multi card reader, the USB device may not be recognized.
- Some USB devices may not work with this unit.
- Digital camera and mobile phone are not supported.
- The USB Port on this unit cannot be connected to a PC. The unit cannot be used as a storage device.
- Unformatted media cannot be used. Please format before using.
- If USB HDD cannot be recognized, try another different USB cable.
- Some USB cables may not supply enough current for normal USB operation.
- Files over 4GB are supported with NTFS format.

Auto Set Up

You can reset the recorder to all its factory settings. The [Auto Set up] menu appears on the screen after the factory settings.

Step 1. Language Selection

Use ▲/▼/◀/▶ to select a language for the on-screen display, and press ENTER (⊙).



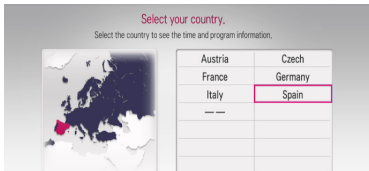
Step 2. Screen Size Setting

Use ◀/▶ to select a screen size, and press ENTER (⊙).



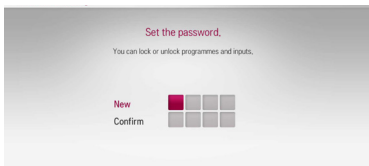
Step 3. Country Selection

Use ▲/▼/◀/▶ to select a country, and press ENTER (⊙).



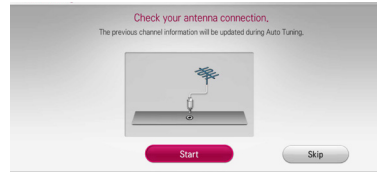
Step 4. Password Setting

Input the new password using numerical buttons. Enter it again to verify.



Step 5. Auto Tuning

1. While the Start option is selected, and press ENTER (⊙) to begin the channel search.



The recorder automatically searches for and saves the programmes.

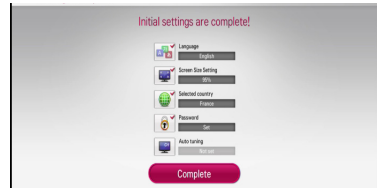


If you select [Stop], the [Auto Tuning] function will be skipped.

2. Press ENTER (⊙).

Step 6. Setting is complete

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



Press ENTER (⊙) while [Complete] is highlighted to finish the auto set up settings.

Home Menu Overview

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

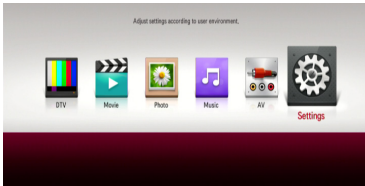
Basic button operations

HOME (🏠): Accesses or removes the Home Menu.

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

ENTER (⊙): Acknowledges menu selection.

BACK (⏪): Exits the menu.



[DTV] - You can watch digital broadcasts. (pages 32-40)

[Movie] - Plays video contents.

[Photo] - Plays photo contents.

[Music] - Plays audio contents.

[AV] - You can watch video from external input mode. When you use the recording mode, you can't enter the AV mode.

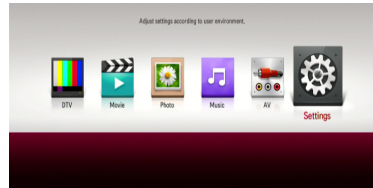
[Setting] - Adjusts the system settings.

Settings

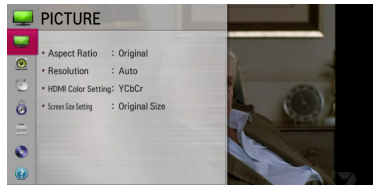
Adjust the Setup Settings

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

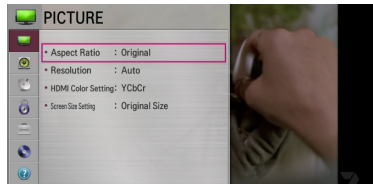
1. Press HOME (🏠).



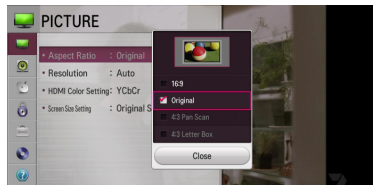
2. Use ▲/▶ to select [Setting] and press ENTER (⊙). The [PICTURE] menu appears.



3. Use ▲/▼ to select the first setup option, and press ENTER (⊙) 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.

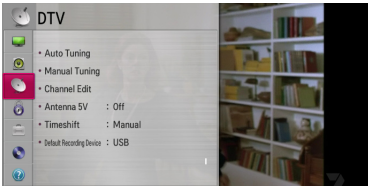
Settings for Digital TV

To use DTV functions, this recorder needs some settings in advance.

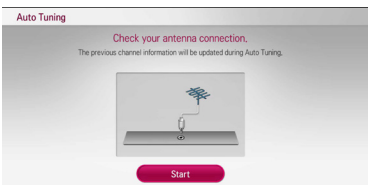
Scanning programmes automatically (Auto Tuning)

All available digital TV or radio programmes are searched for and stored automatically based on the selected country.

1. Press HOME (🏠).
2. Use ◀/▶ to select [Setting], and press ENTER (⊙).
3. Use ▲/▼ to select [DTV], and press ENTER (⊙).



4. Use ▲/▼ to select [Auto Tuning] and press ENTER (⊙).
5. Press ENTER (⊙) to begin the channel search.



Select [Stop] and press ENTER (⊙) to stop the scanning programmes.



! Note

If the [Lock System] option is set to [On], this function is available when you enter the password correctly. (see page 24.)

Scanning programmes manually (Manual Tuning)

Scans digital TV or radio programmes and adds the detected programmes to the programme list.

1. Display [Setting] menu.
2. Use ▲/▼ to select [DTV], and press ENTER (⊙).
3. Use ▲/▼ to select [Manual Tuning] and press ENTER (⊙) to display the [Manual Tuning] menu.



4. Use ◀/▶ to select the desired VHF/UHF CH., and the unit starts scanning automatically.
5. Use ▼ to select the [Update] or [Add] and press ENTER (⊙) to update or add the programme the unit scans automatically.

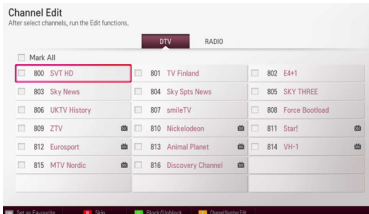
! Note

If the [Lock System] option is set to [On], this function is available when you enter the password correctly. (see page 24.)

Editing Programme List (Channel Edit)

You can remove any digital TV or radio programs stored on this recorder using the [Channel Edit] menu.

1. Display [Setting] menu.
2. Use ▲/▼ to select [DTV], and press ENTER (⊙).
3. Use ▲/▼/◀/▶ to select [Channel Edit] and press ENTER (⊙).
4. Press ▲/▼ to select [DTV] and use ◀/▶ to select [DTV] or [RADIO] programme list.



5. Use ▲/▼/◀/▶ to select a programme you want to skip from the list, and press red (R) coloured button.

If you do not want to skip the programme, select the programme and press red (R) coloured button again.

Use ▲/▼/◀/▶ to select and press ENTER (⊙) to programme you want to lock from the list, and press green (G) coloured button.

If you do not want to lock the programme, select the programme and press green (G) coloured button again.

6. Press BACK (⏪) to return to the previous step.

Skip : If the programme is assigned to skip, you can't select that programme with CH button in Remote control.

Block/unblock : If the programme is assigned to block and [Lock system] in the [Setting] menu is set to [Lock], you should enter the password to watch the programme.

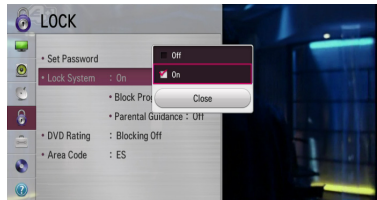
Channel Number Edit : Choose a channel you want. Press yellow (Y) coloured button and then change the channel number by using ▲/▼/◀/▶, and press ENTER (⊙).

FAV Set as Favourite : You can display favourite channel list using the FAV button and switch into other favourite channel on the channel list. (see page 32.)

Lock System

Allows you to set up specific programs and ratings through blocking schemes. Also allows you to activate or disable all of the lock schemes previously set up. A password is required to gain access to the lock menu options. When the Lock System is set to [OFF], the Block Programme and Parental Guidance are not effective. The Lock System option is effective for Block Programme and Parental Guidance options.

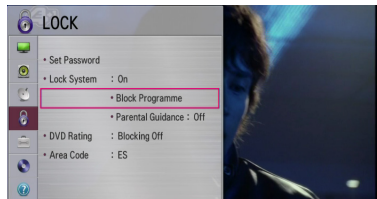
1. Display [Setting] menu.
2. Use ▲/▼ to select [LOCK] and press ENTER (⊙).
3. Input the password using numerical buttons.
4. Use ▲/▼ to select [Lock System] and press ENTER (⊙).
5. Use ▲/▼ to select [On] and press ENTER (⊙) to activate the Lock System.



6. Select [Close] and press ENTER (⊙).

Setting the Block Programme

1. Display [Lock System] menu.
2. Use ▲/▼ to select [Block Programme] and press ENTER (⊙).



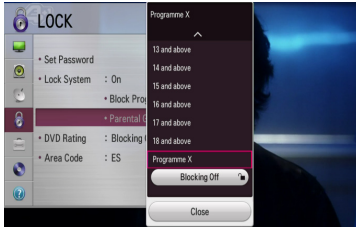
3. Use ▲/▼/◀/▶ to select and press ENTER (⊙) to programme you want to lock from the list, and press green (G) coloured button.

If you do not want to lock the programme, select the programme and press ENTER (⊙). Then press green (G) coloured button again.

4. Press BACK (⏪) to exit the block programme menu.

Setting the Parental Guidance

1. Display [Lock System] menu.
2. Use ▲/▼ to select [Parental Guidance] and press ENTER (⊙).



3. Use ▲/▼ to set the limitation level and press ENTER (⊙).

Blocking Off

You can view all programs.

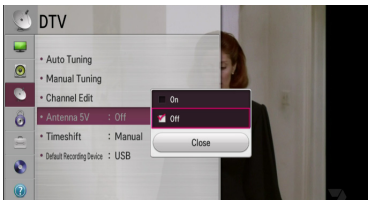
Rating [4 and above] has the most restrictions and [Programme X] is the least restrictive.

4. Select [Close] and press ENTER (⊙).

Setting the antenna power

If you are using indoor antenna with a signal amplifier rated at DC 5V, 100 mA, the recorder can supply power through ANTENNA IN jack.

1. Display [Setting] menu.
2. Use ▲/▼ to select [DTV], and press ENTER (⊙).
3. Use ▲/▼/◀/▶ to select [Antenna 5V] and press ENTER (⊙).
4. Use ▲/▼ to select [On], and press ENTER (⊙) to supply antenna power.



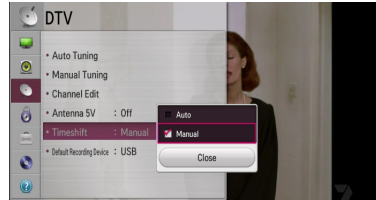
Note

The [Antenna 5V] option must be set to [Off] when your indoor antenna is supplied the power from the mains. If you set the [Antenna 5V] option to [On] for the indoor antenna which is supplied power from the mains, it may cause serious defect to this unit.

Setting the Timeshift

You can set the Time Shift function automatically without pressing TIME SHIFT button. The timeshift will start after Digital TV tuner mode is started.

1. Display [Setting] menu.
2. Use ▲/▼ to select [DTV], and press ENTER (⊙).
3. Use ▲/▼ to select [Timeshift] and press ENTER (⊙).



4. Use ▲/▼ to select [Auto] or [Manual] to apply timeshift.

[PICTURE] Menu

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.

[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]

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

Set the output resolution of the HDMI video signal. Refer to page 16 for details about the resolution setting.

[Auto]

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

[1080p]

Outputs 1080 lines of progressive video.

[1080i]

Outputs 1080 lines of interlaced video.

[720p]

Outputs 720 lines of progressive video.

[576p]

Outputs 576 lines of progressive video.

[576i]

Outputs 576 lines of interlaced video.

! Note

- 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].
- Not supported resolution on the setting menu turns disabled.

HDMI Color Setting

Select the type of output from the HDMI OUT jack. For this setting, please refer to the manuals of your display device.

[YCbCr]

Select when connecting to a HDMI display device.

[RGB]

Select when connecting to a DVI display device.

Screen Size Setting

This function Screen Size Setting of you want. Please selects Screen Size within [99% ~ 92%] or [Original Size].

[SOUND] Menu

Each disc has a variety of audio output options. Set the unit's Audio options according to the type of audio system you use.

Digital Output

Select the output sound format when a device equipped with a HDMI or Digital Audio input jack is connected to the HDMI OUT or OPTICAL (DIGITAL AUDIO OUT) jack on this unit.

[PCM Stereo]

Select if you connect this unit's HDMI OUT or OPTICAL (DIGITAL AUDIO OUT) jack to a device with two-channel digital stereo decoder.

[Primary Pass-Thru]

Select if you connect this unit's OPTICAL (DIGITAL AUDIO OUT) and HDMI OUT jack to a device with LPCM, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS and DTS-HD decoder.

Sampling Freq. (Digital Audio Output)

[192 kHz]

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

[96 kHz]

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

[48 kHz]

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

Check the documentation for your A/V Receiver or Amplifier to verify its capabilities.

DRC (Dynamic Range Control)

This function allows you to listen to a movie at a lower volume without losing clarity of sound.

[Off]

Turns off this function.

[On]

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

[Auto]

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

[DTV] Menu

Auto Tuning

This option scans a programme and sets the available programmes. Refer to page 23 for more information.

Manual Tuning

Scans digital TV or radio programmes and adds the found programmes to the programme list. Refer to page 23 for more information.

Channel Edit

This option allows you to edit the TV or Radio programmes. Refer to page 24 for more information.

Antenna 5V

If you are using an indoor antenna, use one with a signal amplifier rated at DC 5V, 100 mA and set this option to [On]. Refer to page 25 for more information.

Timeshift

Set this option to [Auto] to use the Time Shift function automatically without pressing TIME SHIFT button. The timeshift will start after TV viewing is started. Refer to page 25 for more information.

Default Recording Device

This option sets the storage where your TV recording will be stored.

1. Display [Setting] menu.
2. Use ▲/▼ to select [DTV], and press ENTER (⊙).
3. Use ▲/▼ to select [Default Recording Device] and press ENTER (⊙).
4. Select an option between [HDD] or [USB].

! Note

- Even though [USB] is selected TV recording will be stored on internal HDD, if there is not proper external storage.
- Additionally default Rec.List storage is also applied by this menu option.

[LOCK] Menu

To access any features in the [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.

Set Password

You can create, or change the password.

[New]

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

[Confirm]

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:

Use ▲/▼ to select [LOCK], and press ENTER (⊙).

If you forgot the password, press "0325" using numeric button on the remote control.

New password input menu will be appeared.

Lock System

Allows you to set up specific programs and ratings through blocking schemes. Also allows you to activate or disable all of the lock schemes previously set up. A password is required to gain access to the lock menu options. (See "Lock System" on page 24.)

Block Programme

After select channels, run the Edit functions.

If the programme is assigned to block and [LOCK] in the [Setting] menu is set to [Lock system], you should enter the password to watch the programme. (See "Setting the Block Programme" on page 24.)

Parental Guidance

Viewing of some digital TV programmes can be limited according to the age limit you set. (See "Setting the Parental Guidance" on page 25.)

DVD Rating

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

[1 (Kids) - 8 (Adults)]

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

[Blocking Off]

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

Area Code

Enter the code of the area whose standards were used to rate the DVD video disc, based on the list on page 56.

[OPTION] Menu

Language(Language)

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

Use ▲/▼/◀/▶ to select a Menu Language, Audio Language, Audio Language, Subtitle language, Text Language for the on-screen display, and press ENTER (⊙).

Disc Menu/Disc Audio/Disc Subtitle

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

[Original]

Refers to the original language in which the disc was recorded.

[Other]

Press ENTER (⊙) to select another language. Use number buttons then press ENTER (⊙) to enter the corresponding 4-digit number according to the language code list on page 57.

[Off] (Disc Subtitle only)

Turn off Subtitle.

! Note

Depending on the disc, your language setting may not work.

Time Setting

When Channel auto search is completed the actual Time and Date are also set automatically. If the time in the recorder display is not correct, the clock must be set manually.

Auto Time Setting

1. Select [Time Setting] option then press ▶.
2. Use ◀/▶ to select [Auto] option then press ENTER (⊙).
3. If the clock that has automatically set is different with your local clock, you can add more time using [Time Zone] option. (For example, when summer time is started in local area.) Press ▲/▼/◀/▶ to select [Time Zone] option.
4. Use ▲/▼ to select [Offset] option then press ENTER (⊙).
5. Press ◀/▶ to select a value then press ENTER (⊙) (GMT-1 ~ GMT-11, GMT ~ GMT+12).

! Note

- There are cases where the TV station does not send, or sends wrong date and/or time information and the recorder sets the incorrect time.
- If this happens, we recommend that you set the clock manually.

Manual Time Setting

1. Select [Time Setting] option then press ENTER (⊙).
2. Use ◀/▶ to select [Manual] option then press ENTER (⊙).
3. Enter the necessary information for date and time.
 - ◀/▶ (left/right): Moves the cursor to the previous or next column.
 - ▲/▼ (up/down): Changes the setting at the current cursor position.
4. Press ENTER (⊙) to confirm your setting.

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.

[DivX VOD Register]

Displays the registration code of your player.

[DivX Deregister]

Deactivate your player and display the deactivation code.

! Note

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

Auto 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 itself off after the Screen Saver is displayed for 20 minutes. Set this option to [Off] to leave the screen saver until the unit is operated by the user.

Disability Assistance

Hard Of Hearing

Hard of hearing for users who are hearing impaired. If you set [On] and there is hard of hearing subtitle, You can see the subtitle on screen.

Audio Description

Audio description for users who are visually handicapped. If you set [On], You can hear the explanation of display through a Main audio and Audio Description audio.

Internal HDD Format

Everything recorded on the HDD will be erased.

1. Press HOME (🏠).
2. Use ▲/▼/◀/▶ to select [Setting] in the [Home] menu, and press ENTER (⊙).
3. Use ▲/▼ to select [OPTION] and press ENTER (⊙).
4. Use ▲/▼/◀/▶ to select [Internal HDD Format], and press ENTER (⊙). Select [No] and press ENTER to cancel.
5. Use ◀/▶ to select [Yes], and press ENTER (⊙) to start the HDD format. Select [OK] and press ENTER (⊙) to return to the previous step.

Factory Reset

You can reset the recorder to its original factory settings.

[Factory Reset] If you need to, you can reset the recorder to all its factory settings. Select [Factory Reset] icon then press ENTER (⊙) and auto setup menu will appear, see page 21.

1. Select [Factory Reset] option then press ▶.
2. Press ENTER (⊙) and then confirm message will appear.
3. Use ◀/▶ to select [Yes] and then press ENTER (⊙) to reboot the recorder.

[DISC] Menu

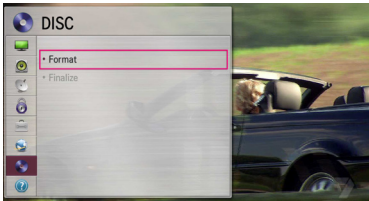
Format

If you want to copy a disc, use only the disc which is formatted on this unit.

If you load a completely blank disc, the recorder will initialize the disc.

Also, you can reformat the DVD-RW/DVD+RW from the Setting menu as below.

1. Display [Setting] menu.
2. Select [DISC] option then press ENTER (⊙).



3. Select [Format] option then press ENTER (⊙).
4. Press ENTER (⊙) while [Yes] is selected. Format Disc menu appears. Disc initialization is completed will appear.

⚠ Caution

- If you want disc format, everything recorded on the disc will be erased.
- While disc formatting or finalizing, if AC power is accidentally disconnected to the unit by power failure etc., the disc may be damaged.
- Disc formatted on vista live mode is not supported.

Finalize (DVD+R/DVD+R DL/DVD-R Only)

Finalized the recordings in place so that the disc can be played on a regular unit or computer equipped with a suitable DVD-ROM drive.

⚠ Caution

Once you have finalized a DVD-R and DVD+R disc, you cannot edit or record anything else on that disc.

1. Select [Finalize] option then press ENTER (⊙).
2. Press ENTER (⊙) while [Finalize] is selected. Finalize menu appears.
3. Select [OK] then press ENTER (⊙). The recorder starts finalizing the disc.

ⓘ Note

- How long finalization takes depends on the type of disc, how much is recorded on the disc, and the number of titles on the disc.
- DVD-R, DVD+R DISC can be finalized only one time.
- Depending at the disc and the way of format finalizing may take more time.

[SUPPORT] Menu

System Information

Displays the current software version.

Using the Digital TV functions

You can watch and record the digital TV programmes or playback the recorded TV programmes you want to watch using this unit.

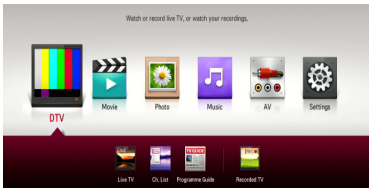
Viewing the Digital TV

Viewing the Digital TV broadcasting on the TV screen.

! Note

- DTV antenna connection is required. (page 14)
- DTV settings such as [Auto Tuning] in the [Setting] menu may be required. (page 23)

1. Press **⏻** (POWER) to turn on the unit.
2. Use **◀/▶** to select [DTV] on the HOME menu and press ENTER (⊙).
3. Use **◀/▶** to select [Live TV] and press ENTER (⊙).



Changing Digital TV programmes

Generally, press CH (**▲/▼**) to select the programme position, or entering a programme number using numerical buttons. If you want to change the programme on the programme list, follow the instruction as below.

1. While watching DTV, press CH LIST.



2. Use **▲/▼** to select a desired programme, and press ENTER (⊙).

If you press green (**G**) coloured button repeatedly, the unit sort the programmes into channel number, ABC, FTA~CAS or CAS~FTA.

3. Press BACK (⏪) to exit from the channel list.

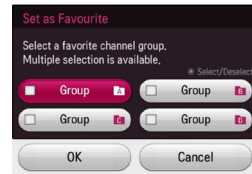
Setting favourite programmes

This option allows you to set the favourite channel.

1. While watching DTV, press CH LIST.
2. Press red (**R**) coloured button to display [Channel Edit] menu.
3. Use **▲/▼/◀/▶** to select a channel and press ENTER (⊙) (channel shows **✓** icon).



4. Press FAV button to display [Set as Favourite] menu.



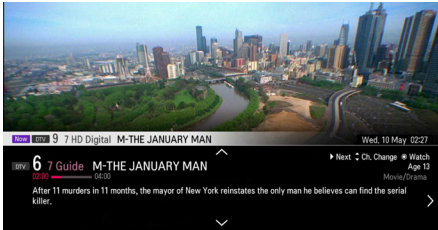
5. Use **▲/▼/◀/▶** to select a group and press ENTER (⊙) (group shows **✓** icon).
6. Select [OK] then press ENTER (⊙)
7. Press BACK (⏪) to exit from the channel list menu.
8. On the channel list menu, use **◀/▶** to move to the Favourite Ch. Group menu.

If you press yellow (**Y**) in the Favourite state, current channel will be registered to the relevant Favourite.

To cancel the favourite programmes from the Favorite List, select a programme, and press yellow (**Y**) coloured button.

Viewing the programme information

You can view a description of the programme being broadcast.



1. While watching DTV, press INFO/MENU (□) to display the programme information.
2. Press INFO/MENU (□) again to close the programme information.

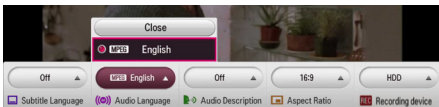
! Note

- This function informs you of related broadcasting information on current channel.
- Use ▲/▼/◀/▶ to display the next programme, previous programme, next channel, previous channel, etc for the information programme.

Selecting DTV audio language

Some digital programmes may broadcast several audio languages or encoding methods. You can select an audio language or an encoding method when it is available.

1. While watching DTV, press Q.MENU.
2. Use ◀/▶ to select the [Audio language] option.



3. Use ▲/▼ to select audio language or an encoding method, and press ENTER (⊙).

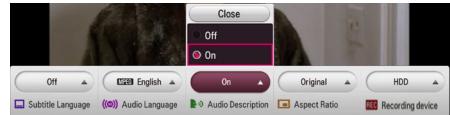
! Note

- This option is not available while recording.
- While playing the recording title, You can select the audio language by pressing Q.MENU button.

Selecting Audio Description

Audio description for users who are visually handicapped.

1. While watching DTV, press Q.MENU.
2. Use ◀/▶ to select the [Audio description] option.

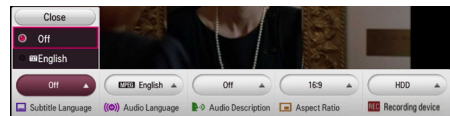


If you set [On], You can hear the explanation of display through a Main audio and Audio Description audio.

Selecting DTV subtitle language

Some digital programmes may broadcast several subtitle languages. You can select a subtitle language when it is available.

1. While watching DTV, press Q.MENU or SUBTITLE.
2. Use ◀/▶ to select the [Subtitle language] option.



3. Use ▲/▼ to select subtitle language, and press ENTER (⊙).

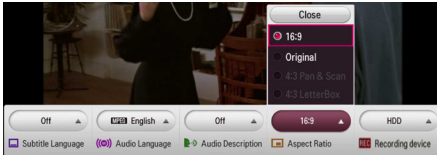
! Note

- You can find a programme that supports subtitle language on the programme information. For the programmes with subtitle, SUB icon appears on the programme information.
- While playing the recording title, You can select the subtitle language by pressing Q.MENU button.

Changing Aspect Ratio

You can change the TV aspect ratio setting while playback.

1. While watching DTV, press Q.MENU.
2. Use ◀/▶ to select the [Aspect Ratio] option.



3. Use ▲/▼ to select aspect ratio, and press ENTER (⊙).

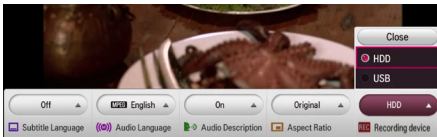
Note

While playing the recording title, You can select the aspect ratio by pressing Q.MENU button.

Changing Recording device

You can set the storage location where you want to store the DTV recordings.

1. While watching DTV, press Q.MENU.
2. Use ◀/▶ to select the [Recording device] option.



3. Use ▲/▼ to select storage, and press ENTER (⊙).

Note

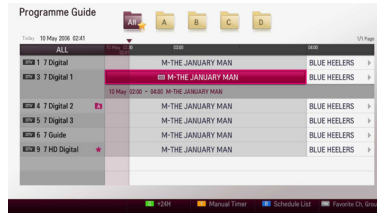
This option is unavailable while recording.

Programme Guide (Digital program only)

The Programme Guide contains schedule and program information for digital programs. They also provide local over-the-air programs information including conventional digital programs. Use the Programme Guide to find programs easily and conveniently and to view schedule and descriptive program information for the programs.

To Display the Programme Guide

Press the GUIDE button on your remote control.



To Exit the Programme Guide

Press the BACK (⏪) button to return to the last program you tuned to.

To navigate through programs on the Guides

Use ▲/▼/◀/▶ on your remote control to navigate the guide screen.

You can move faster through programs by scrolling page-by-page with the CH (▲/▼) buttons on the remote control. Each button stroke scrolls one page up or down.

To tune to another current channel

Use ▲/▼/◀/▶ to select a current channel then press ENTER (⊙) and watch TV button. You can watch the channel.

To display the Full Information window

You can view the detail information for the highlighted program. Press INFO/MENU (⏏) or ENTER (⊙) to display detail information window. To exit from the detail information window, press INFO/MENU (⏏) or select [Close] then press ENTER (⊙).

To change date

When the Program Guide with 8 days is displayed, you can also change the date of the Program Guide by pressing the green (G) coloured button, you can set the time +24H. On the contrary, by pressing the red (R) coloured button, you can set the time -24H.

After setting favourite channels from the CH list, you can use the FAV button to toggle between [All] and [A~D] channel list.

Using the timeshift function manually

You can pause a Live TV broadcast, then continue watching the programme at a later time. This is useful when you receive an unexpected call or visitor while watching TV.

The following are operating steps when the [Timeshift] option is set to [Manual].

1. Press TIME SHIFT while watching a TV broadcast. The recorder starts recording the current TV programme to the HDD.
2. Press II to pause the programme you're watching the just now.
3. Press ► to resume watching the programme.

Press ENTER (⊙) or ◀/▶ to display the progress of timeshift.

Press ◀◀/▶▶ to playback of timeshift fast forward or fast reverse.

4. Press ■, it's not turning off the timeshift function but going back to the DTV in realtime. Timeshift cannot be saved as a recorded title.

! Note

When recording and copying or record deleting the record, timeshift function is will be stopped.

Using the timeshift function automatically

If you set the timeshift option to [Auto], live TV broadcast will automatically be recorded to the HDD without pressing the TIME SHIFT button. The timeshift will start automatically when the Digital TV tuner mode is started.

Refer to "Setting the Timeshift" on page 25 to set the [Timeshift] option.

1. Press ⏻/I (POWER) to turn on the unit. The timeshift function will automatically start. Press ◀◀/▶▶ to playback of timeshift fast forward or fast reverse.
2. Press HOME (🏠) to exit from the DTV viewing.
3. Press ■, it's not turning off the timeshift function but going back to the DTV in realtime.

! Note

- Without changing a channel, the timeshift function will go on.
- When you exit from the DTV mode, timeshift function automatically will be stopped. Ex) Power off, Record etc.
- If you change the channel during the timeshift function, the unit will switch to Live TV automatically.
- If the timeshift data exceeds the capacity, the data will be deleted automatically from the oldest one.
- Timeshift record Mode is not supported for Audio Only Channel.
- Timeshift record can not start if clock is not set correctly.

Using the teletext (Viewing Teletext)

Many Digital TV programmes broadcast information via their text service, and this recorder has access to dedicated text programmes transmitted by the broadcasters.



1. Press TEXT while watching TV.
2. Use coloured (R/G/Y/B) button to select a page.
You can also select a page by entering a three digit number with the numerical buttons.
3. Press TEXT or EXIT to exit the teletext screen.

! Note

Additionally, you now have four coloured buttons to navigate through the content of the page. The use of these coloured buttons will be displayed on the screen.

Recording TV programmes

You can watch another channel while recording a channel or record up to two different programmes simultaneously in the built-in HDD and playback the recorded programmes.

Dual Programme Recording

You can record two Digital TV programme at the same time.

1. Use CH (▲/▼) to select a programme you want to record.
2. Press REC. (●) to start recording.
3. Use CH (▲/▼) to select another programme you want to record.
4. Press REC. (●) to start recording.

While recording two programmes simultaneously, you can only watch the programmes being recorded.

Normal Recording

1. Use CH (▲/▼) to select a programme you want to record.
2. Press REC. (●) to start recording.

! Note

- If the TV screen turns black with stop mark that caused by no signal, scramble and any other reasons, then recording is unavailable.
- You can record maximum 300 titles.

Stop Recording

You can stop recording instantly in Live TV.

1. Press **■** (STOP) then stop dialogue is displayed.
2. Use **◀/▶** to select [Yes] and press **ENTER** (⊙) to stop recording.

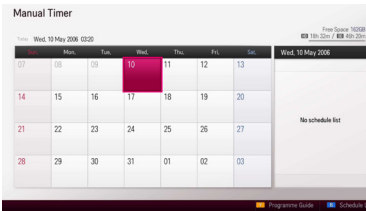
! Note

To stop recording, you must move to the programme being recorded before pressing **■** (STOP).

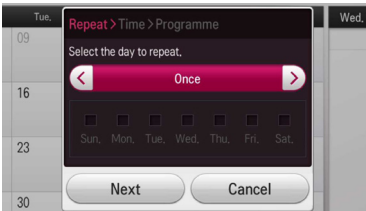
Timer Recording (Manual)

You can set the timer for a total of 30 programmes, up to 22-28 days in advance.

1. While watching TV, press **TIMER REC..**



2. Use **▲/▼/◀/▶** to select the date to record, and press **ENTER** (⊙).



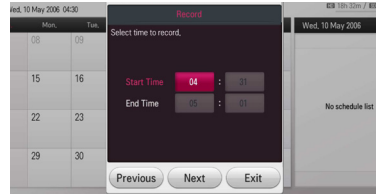
3. Use **◀/▶** repeatedly to select [Once, Daily, Mon.~Fri., Sat.~Sun. or Manual], and press **▼**.

If you want to select the day manually, select [Manual] then press **▼**, and press **ENTER** (⊙). Select the desired day using **▲/▼/◀/▶** and press **ENTER** (⊙).

! Note

The timer recording can be set from 2 minutes after the current time.

4. Enter the necessary information for your timer recording(s).

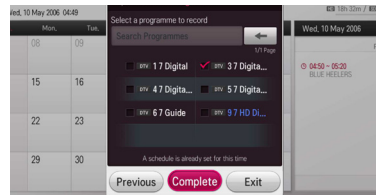


◀/▶ (left/right) – Move the cursor left/right

▲/▼ (up/down) – Change the setting at the current cursor position.

You can use numbered buttons to change the setting.

5. Select [Next], and press **ENTER** (⊙).
6. Use **▲/▼/◀/▶** to select a programme to record, and press **ENTER** (⊙). (programme shows **✓** icon)

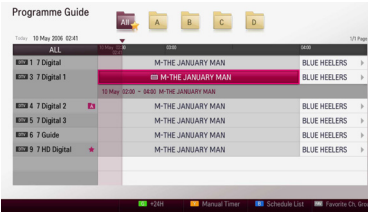


7. Select [Complete], and press **ENTER** (⊙) to save the programme.

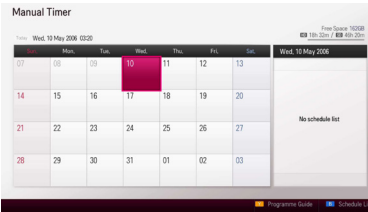
Timer Recording (Programme Guide)

You can also set the timer based on the information provided by the programme guide.

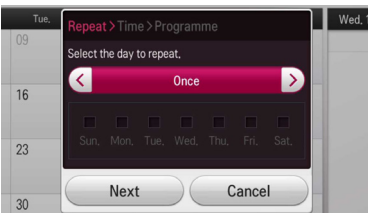
1. While watching TV, press GUIDE.



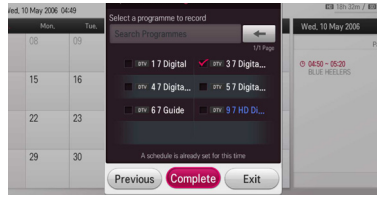
2. Press red (R) or green (G) coloured button to select date field.
3. Use left/right arrows to select the programme list, and select a programme you want to record using up/down arrows.
4. Press the yellow (Y) coloured button.



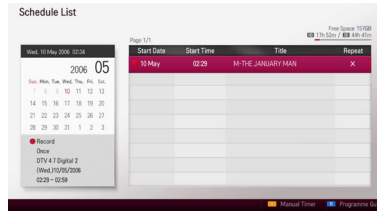
5. Use up/down/left/right arrows to select the date to record, and press ENTER (Enter).



6. Use left/right arrows repeatedly to select [Once, Daily, Mon.~Fri., Sat.~Sun. or Manual], and press down arrow. If you want to select the day manually, select [Manual] then press down arrow, and press ENTER (Enter). Select the desired day using up/down/left/right arrows and press ENTER (Enter).
7. Select [Next], and press ENTER (Enter).



8. Use up/down/left/right arrows to select a programme to record, and press ENTER (Enter). (programme shows checkmark icon)
9. Select [Complete], and press ENTER (Enter) to save the programme.
10. Press BACK (Back) to return to the TV viewing.
11. Press TIMER REC., and press the blue (B) coloured button.



Check whether the schedule is registered properly or not.

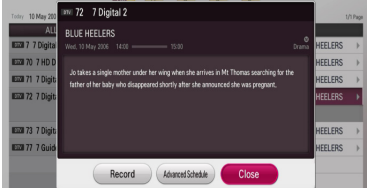
Instant Timer Recording with Programme Guide

You can set the recording time instantly to stop the recording automatically.

1. While watching TV, press GUIDE.



2. Use left/right arrows to select the programme list, and select a programme you want to record using up/down arrows.
3. Press ENTER (Enter) to display instant recording menu.

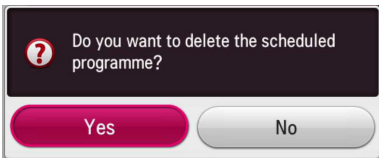


4. Use ◀/▶ to select [Record] and press ENTER (⊙).
If you select [Advanced Schedule] and press ENTER (⊙) to follow the steps 3-5 from "Timer Recording (Manual)" on page 37 to complete the editing.
5. Select [Yes] and press ENTER (⊙).
6. Use ◀/▶ to select [Yes] and press ENTER (⊙) to start recording.

Deleting a timer recording

You can delete a timer recording before the timer recording actually starts.

1. While watching TV, press TIMER REC..
2. Press the blue (B) coloured button.
3. Use ▲/▼ to select a schedule you want to delete, and press ENTER (⊙).
4. Use ▲/▼ to select [Delete], and press ENTER (⊙).



5. Select [Yes] and press ENTER (⊙) to delete selected schedules (selected recording).
Select [No] and press ENTER (⊙) to cancel.

Modify a timer recording

You can modify a pre-scheduled timer recording before the timer recording actually starts.

1. While watching TV, press TIMER REC..
2. Press the blue (B) coloured button.
3. Use ▲/▼ to select programme field, and press ENTER (⊙).
4. Use ▲/▼ to select [Modify], and press ENTER (⊙).
5. Use ▲/▼/◀/▶ to select a category to change, and press ENTER (⊙).



The adjustable items are listed below.

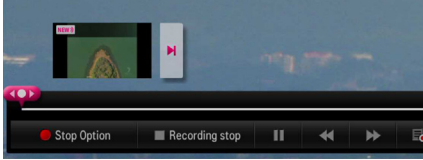
Date	Sets the start date
Type / Time	Sets the start time and end time.
Repeat	Choose a desired repeat mode. (Once, Daily, Mon.~Fri., Sat.~Sun. or Manual)

6. Select [Cancel] and press ENTER (⊙) to cancel.

Instant Timer Recording

You can set the recording time instantly to stop the recording automatically.

1. Use CH (▲/▼) to select a programme you want to record.
2. Press REC. (●) to start recording.
Press ENTER (⊙) to display the progress of recording.



If you want to change recording time during recording, press REC. (●) button then, change it in the Record option menu.

3. Press ■ to stop recording.

! Note

- The external USB HDD recording feature is only supported on first primary partition and it must be formatted with 4KB block NTFS.
- If the unit cannot catch the signal, the recording will be pause, actual recording time can be less than the time set on timer.
- The quality of recording can be different on the status of the broadcast signal.
- During the recording, turning off by force can cause a serious problem on hard disk drive.
- Recording can be restarted when contents status is changed and it'll separate recording title into two individual title consequently.

Recording from Video/Audio Input

You can record from an external composite, such as a camcorder, connected to any of the unit's external inputs.

1. Make sure that the component you want to record from is connected properly to the unit.
See page 19.
2. Select the recording location using [Default Recording Device] option on the Setting menu. (page 28)
3. While watching TV, press INPUT or select [AV] option on Home menu to select the external input.
Record with external input is not available if you're recoding TV broadcasting.
4. Press REC. (●) once to start recording.
5. Press ■ (STOP) to stop recording.

! Note

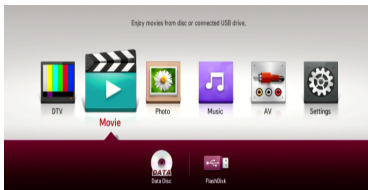
- The external USB HDD recording feature is only supported on first primary partition and it must be formatted with 4KB block NTFS.
- If your source is copy-protected using CopyGuard, you will not be able to record it using this recorder. For more details, See Copyright on page 5.
- In case an incoming signal is NTSC, recording and playback does not work. (only PAL Incoming signal is recordable.)
- You can't use Home menu or enter TV mode while recording process is underway using the external input.

General Playback

Playing a disc

DVD AVCHD ACD

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



5. Select the disc icon using ◀/▶, and press ENTER (⊙).

! Note

Playback functions described in this manual are not always available in every files and media. Some functions can be restricted depending on many factors.

To stop playback

Press ■ (STOP) during playback.

To pause playback

Press || (PAUSE) during playback.

Press ▶ (PLAY) to resume playback.

To scan forward or backward

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

You can change the various playback speeds by pressing ◀◀ or ▶▶ repeatedly.

To slow down the playing speed

While the playback is paused, press ▶▶ to play at slow motion.

To skip to the next/previous chapter/track/file

During playback, press ◀◀◀ or ▶▶▶ to go to the next chapter/track/file or to return to the beginning of the current chapter/track/file.

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

In case of movie file, press ◀◀◀ one time. You can play previous file.

Using the disc menu

DVD AVCHD

To display the disc menu

The menu screen may be displayed first after loading a disc which contains a menu. If you want to display the disc menu during playback, press DISC MENU.

Use ▲/▼/◀/▶ buttons to navigate through menu items.

Resume playback

DVD AVCHD

This unit remembers 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 "■ (Complete Stop)" appears on the screen. The unit will clear the stopped point.

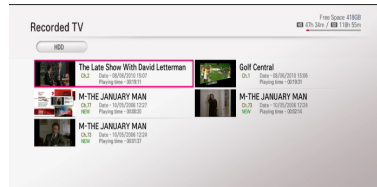
! Note

- The resume point may be cleared when a button is pressed (for example; ⏻ (POWER), ▲ (OPEN/CLOSE), etc).
- Resume playback may not work depending on the present play section. (Resume playback is disabled on the disk menu section.)

Playing the recorded titles

REC

1. While watching TV, press REC.LIST to display the options menu or use ▲/▼/◀/▶ to select [Recorded TV] on the HOME menu and press ENTER (⊙).

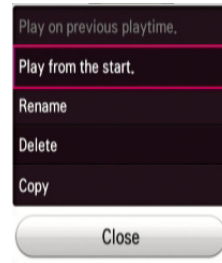


2. Use ▲/▼/◀/▶ to select recording title. If you want to view previous or next page, press PAGE (▲/▼).
3. Press ▶ (PLAY) to play the recorded title.

! Note

- NEW text is displayed next to recorded files that have not been viewed yet.
- Pay channel title does not have thumbnail.

4. Use ▲/▼/◀/▶ to select a recorded title then press ENTER (⊙) to display the option menu.



5. Use ▲/▼ to select [Play on previous play time.] or [Play from the start.] option, and press ENTER (⊙) to play the recorded title.

! Note

- You can change device on the [Recorded TV] menu. Press green (G) colored button to display the [Linked Device List] menu. Use ▲/▼ to select device, and press ENTER (⊙).
- While playing disc, [Play on previous play time.] is not supported.

Sorting the recorded titles

REC

1. While watching TV, press REC.LIST to display the [Recorded TV] or use ▲/▼/◀/▶ to select [Recorded TV] on the HOME menu and press ENTER (⊙).
2. Press yellow (Y) coloured button repeatedly to sorted by recorded time in recent order or title name in alphabetical order.

[ABC] – by title name in alphabetical order.

[Recent] – sorted by recorded date.

! Note

In case of [ABC] sort, the extended character like tilde can sort incorrectly.

Rename the recorded titles

REC

You can rename a recorded title.

1. While watching TV, press REC.LIST to display the [Recorded TV] or use ▲/▼/◀/▶ to select [Recorded TV] on the HOME menu and press ENTER (⊙).
2. Use ▲/▼/◀/▶ to select a recorded title then press ENTER (⊙).
3. Use ▲/▼ to select [Rename] option, and press ENTER (⊙) to display the virtual keyboard.
4. Select a letter using ▲/▼/◀/▶ on the keyboard menu.

To enter a letter with an accent mark:



[] – Inserts a space at the cursor position.

[←] – Deletes the previous character at the cursor position.

[a/A/#] – Change the keyboard menu settings to capital letters, small letters or symbols.

5. Enter a new name using virtual keyboard, and press ENTER (⊙) while [OK] is selected.

! Note

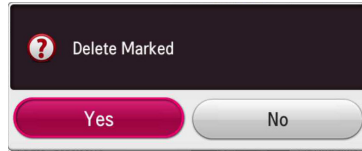
If you rename a title in DISC, it will take long time.

Deleting a recorded titles

REC

You can delete recorded title.

1. While watching TV, press REC.LIST to display the [Recorded TV] or use ▲/▼/◀/▶ to select [Recorded TV] on the HOME menu and press ENTER (⊙).
2. Press blue (B) colored button.
3. Use ▲/▼/◀/▶ to select a recording title then press ENTER (⊙). (shows ✓ icon)
4. Press yellow (Y) colored button.



5. Use ◀/▶ to select [Yes], and press ENTER (⊙) to delete the selected recorded titles.

! Note

- It is unable to do delete during the recording.
- If you delete a title in DISC, it will take long time.
- If you want delete all titles then HDD format is more faster and more safe (OPTION : Internal HDD format).

6. Press red (R) colored button, you can (un)select all titles.

Playing movie file and VR discs

You can play DVD-RW discs that are recorded in Video Recording (VR) format and movie files contained on a disc/HDD/USB device.

1. Press HOME (🏠).



2. Select [Movie] using ◀/▶, and press ENTER (⊙).
3. Select [VR] using ◀/▶, and press ENTER (⊙).

! Note

- The file requirements are described on pages 10-11.
- You can use various playback functions. Refer to pages 41-48.
- 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.

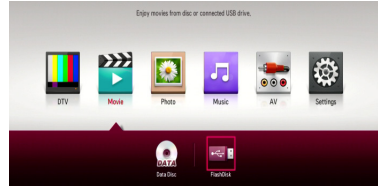
What is CPRM?

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.

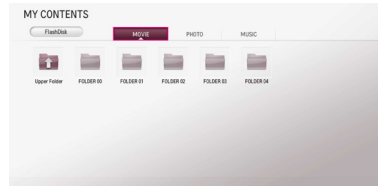
Playing a file on Linked Devies

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

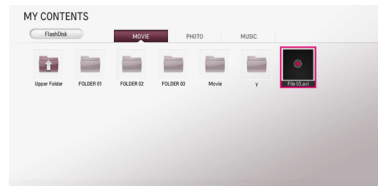
1. Insert a USB device into the USB port until it fits into place.
2. Press HOME (🏠).
3. Select [Movie], [Photo] or [Music] using ◀/▶, and press ENTER (⊙).



4. Select the [(USB)] option using ▲/▼/◀/▶, and press ENTER (⊙).



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

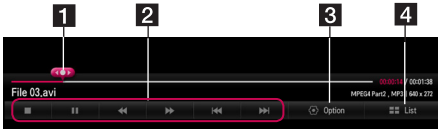


6. Withdraw the USB device carefully after exiting the USB mode.

To control movie playback

You can control playback and set options while watching videos.

During playback, press INFO/MENU (□).



- 1 Progress bar - Selects the desired point and plays.
- 2 Playback control - Refer to the basic operation for video.
- 3 Option - Sets options for the Screen Size or video play. (see page 47)
- 4 List - Stops playback and returns to the list.

To control photo view

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



- 1 Slideshow - Displays photos as a slideshow.
- 2 BGM - Plays background music. (page 47)
- 3
 - Rotation - Rotates the picture.
 - Enlargement - Enlarges the picture.
- 4 Option - Sets options for viewing photo. (see page 46)
- 5 List - Stops playback and returns to the list.

To control music playback

Controls play and sets options while listening to a music.



- 1 Progress bar - Selects the desired point and plays.
- 2 Playback control - Refer to the basic operation for audio and advanced playback. (see pages 46, 48)
- 3 [List] - Returns to the list.

Note

When you move the progress bar to desired point during playback, some files may not be moved to exact point or play next file back.

Basic operations for video and audio content

To stop playback

Press ■ (STOP) or while playback.

To pause playback

Press || (PAUSE) button on the remote control or || (PAUSE) on the screen while playback.

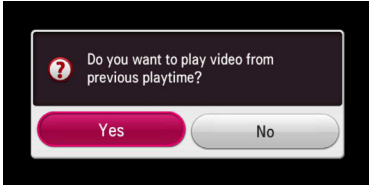
Press ▶ (PLAY) button on the remote control or ▶ (PLAY) icon on the screen to resume playback.

To resume playback

(Movie files)

The unit records the point where you stopped during playback. When you play the file again on the list, the option will be appeared on the file.

To resume the playback, Select [YES] and press ENTER (⊙).



To scan forward or backward

(Movie files)

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

You can change the various playback speeds by pressing ◀◀ or ▶▶ repeatedly.

To skip to the next/previous file

(Movie/Music files)

During playback, press ◀◀◀ or ▶▶▶ to go to the next file or to step back to the previous file.

Basic operations for photo content

To play a slide show

Press [Slide Show ▶] on the Photo view screen.

To stop a slide show

Press [Slide Show ■] on the Photo view screen.

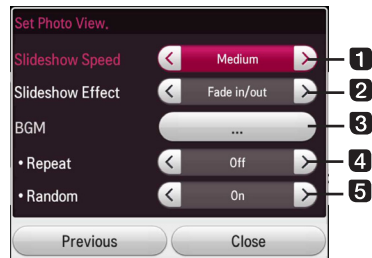
To skip to the next/previous photo

While viewing a photo in full screen, press ◀ or ▶ on the remote control to go to the previous or next photo.

Options while viewing a photo

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

1. While viewing a photo in full screen, press INFO/MENU (ⓘ) to display the option menu.
2. Select an [Option] using ▲/▼/◀/▶, and press ENTER (⊙).
3. Select an [Set Photo View.] option, and press ENTER (⊙).



1 **Slide Show Speed** – Adjust slideshow's speed Fast/ Medium/ Slow.

2 **Slide Show Effect** – Adjust slideshow's Effect Fade in/Out, Slide, Off.

3 **BGM** – Select background music while viewing photo.

4 **Repeat** – Select repeat mode (One song/ ALL/ Off) for desired song.

5 **Random** – Photo files will be played random order.

4. Press BACK (⏪) or [Previous] to exit the option menu.

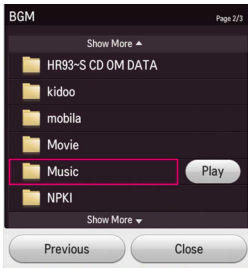
Listening to music while slide show

You can display photo files while listening to audio files.

1. While viewing a photo in full screen, press INFO/MENU (ⓘ) to display the option menu.
2. Select an [Option] using ▲/▼/◀/▶, and press ENTER (⊙).
3. Select [BGM] option, and press ENTER (⊙).
4. Select a folder you wish to play.

Music folder that you can select is only for Data Disc or USB device in this unit.

5. To select [Play], and press ENTER (⊙) to complete music selection.



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

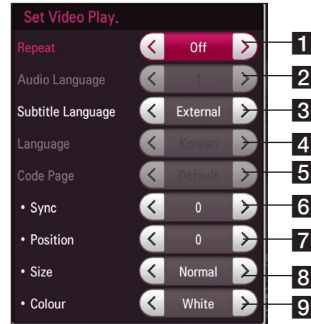
! Note

When selecting the audio folder, file selection is unavailable. Only folder selection is available.

Options while watching a video (Movie)

You can check and adjust a subtitle information of the video file on playing.

1. While viewing a video (Movie) in full screen, press INFO/MENU (ⓘ) to display the option menu.
2. Select an [Option] using ▲/▼/◀/▶, and press ENTER (⊙).
3. Select [Set Video Play.] and press ENTER (⊙).



- 1 **Repeat** – All the files will be played back repeatedly.
- 2 **Audio Language** – Selected audio or channel.
- 3 **Subtitle Language** – Select subtitle Off/Internal/External.
- 4 **Language** – Selected subtitle.
- 5 **Code Page** – Select subtitle code page.
- 6 **Sync** – Synchronizes unmatched video subtitle.
- 7 **Position** – Adjust the subtitle position.
- 8 **Size** – Adjust the subtitle size.
- 9 **Colour** – Adjust the subtitle colour.

4. To adjust option value, use the ◀/▶ on the screen .
5. Press BACK (⏪) or [Previous] to exit the option menu.

! Note

- If no button is pressed for a few seconds, the on-screen display disappears.
- Available items may differ depending on titles.

Advanced Playback

Repeat Playback

DVD **AVCHD** **ACD** **MUSIC**

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

DVDs

🔁 **Off** – Returns to normal playback.

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

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

Audio CDs/Music files

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

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

🔁 **X** – The tracks or files will be played back in random order.

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

! Note

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

Viewing content information

MOVIE

The unit can display the content information on the list.

1. Select a file using ▲/▼/◀/▶.
2. Press INFO/MENU (ℹ️) to display the option menu.

The file information appears on option menu.

! Note

The information displayed on the screen may not be correct compared to the actual content information.

Last Scene Memory

DVD

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

! Note

- Last Scene Memory function for a previous disc is erased once a different disc is played.
- This function may not work depending on the disc.
- This unit does not memorize settings of a disc if you switch off the unit before commencing to play it.

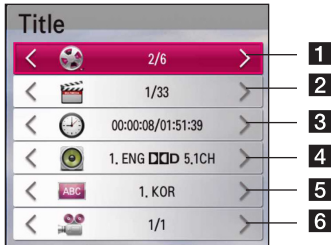
On-Screen display

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

Displaying content information on-screen

DVD AVCHD

1. During playback, press INFO/MENU (□) to show various playback information.



- 1 **Title** – current title number/total number of titles
- 2 **Chapter** – current chapter number/total number of chapters
- 3 **Time** – elapsed playing time/total playback time
- 4 **Audio** – selected audio language or channel
- 5 **Subtitle** – selected subtitle
- 6 **Angle** – selected angle/total number of angles

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

! Note

- If no button is pressed for a few seconds, the on-screen display disappears.
- A title number cannot be selected on some discs.
- Available items may differ depending on discs or titles.

Playing from selected time

DVD AVCHD

1. Press INFO/MENU (□) during playback. The time search box shows the elapsed playing time.
2. Select the [Time] option and then input the required start time in hours, minutes, and seconds from left to right.

For example, to find a scene at 2 hours, 10 minutes, and 20 seconds, enter “21020”.

Press ◀/▶ to skip the playback 60 seconds forward or backward.

3. Press ENTER (⊙) to start playback from selected time.

! Note

- This function may not work on some disc or titles.
- This function is not accurate in recordings.

Hearing different audio

DVD AVCHD

1. During playback, press INFO/MENU (□) to display the On-Screen display.
2. Use ▲/▼ to select the [Audio] option.
3. Use ◀/▶ to select desired audio language, audio track or audio channel.

! Note

- Some discs allow you to change audio selections only via the disc menu. In this case, press TITLE 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.

Selecting a subtitle language

DVD AVCHD

1. During playback, press INFO/MENU (⏏) to display the On-Screen display.
2. Use ▲/▼ to select the [Subtitle] option.
3. Use ◀/▶ to select the desired subtitle language.
4. 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 or DISC MENU button and choose the appropriate subtitle from the selections on the disc menu.
- Some movie (video) files allow you to change subtitle selections only via the movie files. (see page 47)

Watching from a different angle

DVD

If the disc contains scenes recorded at different camera angles, you can change to a different camera angle during playback.

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

Using the Recording title Copy

You can copy recording title from to the other storage device.

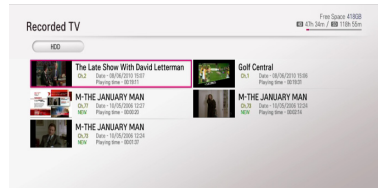
Preparations:

- Insert a blank DVD disc in the DVD deck and close the disc tray.
- Insert a external HDD to the USB port until it fits into place.

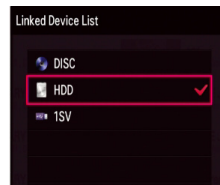
1. Press HOME (🏠).



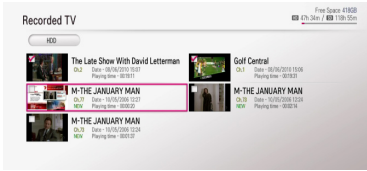
2. Use ▲/▼/◀/▶ to select [Recorded TV] or Disc icon, on the HOME menu and press ENTER (⊙).



3. Press green (G) colored button to display the [Linked Device List] menu. If you want to copy the recorded title on disc, internal HDD or external HDD, please select the desired device.



4. Use ▲/▼ to select a storage device you want to copy, and press ENTER (⊙).
5. Press blue (B) colored button.
6. Use ▲/▼/◀/▶ to select a recording title then press ENTER (⊙). (shows ✓ icon)



After completing copy to DVD, you can see the copy list.

12. Press BACK (⏪) to exit the copy list.

Note

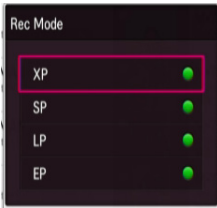
- Copying speed may vary depending on the file size, number of files.
- It is unable to do copy during the recording.
- If a reserved recording is started during taking a copy, the recording is discontinued then a notification pops up.
- The name of copied files can be different from that of original files.
- It might not be copied if it is copy-protected contents.
- Successful copying contents also depend on disc's capability.
- Not supported resolution on the setting menu turns disabled.
- If you use the disc copy during timeshift, the timeshift is terminated automatically.
- If there is not enough disc space, the recording may not be run totally.
- If you want disc copy, use only the disc which is formatted on this unit.
- The external USB HDD for record has to be formatted in NTFS.
- With the purpose of the title backup, the copy not like recording, can deal with maximum 2000 titles.
- Disc rewritten on other recorder or personal computer may not recognized (played) on this unit.
- Disc copied on this unit may not recognized (played) on other player or recorder.
- If you unplug the USB memory during disc copy, Emergency may stop.
- Red indicates that the recording will not be done to end of the selected titles. If you uncheck the title you've checked before, the Red changes to Green. you can record the selected titles in Green signal.
- By using VBR (Variable Bitrate) Encoding mode, the actual recording time may vary compared to displayed recording time.
- If you want to copy recordings less than 15 seconds, it may not be recorded in the DISC.

7. Press green (G) colored button to display the [Device Selection] menu.

8. Use ▲/▼ to select [DISC], [HDD] or [USB] and press ENTER (⊙) for target device.

9. (Disc only)

Use ▲/▼ to select a desired Rec Mode Set [XP, SP, LP or EP] and press ENTER (⊙).



There are four preset copying quality modes:

[XP] – Highest quality setting, gives about 1 hour of recording time on a DVD (4.7 GB).

[SP] – Default quality, sufficient for many applications, gives about 2 hours of recording time on a DVD (4.7 GB).

[LP] – Slightly lower video quality, gives about 3 hours of recording time on a DVD disc (4.7 GB).

[EP] – Low video quality, gives about 4 hours of recording time on a DVD (4.7 GB).

10. Use ◀/▶ to select [Yes], and press ENTER (⊙) to start copying.

11. (Disc only)



It starts to copy to DVD after preparing video.

Troubleshooting

General

Symptom	Cause & Solution
The Power does not turn on.	<ul style="list-style-type: none"> • Plug the power cord into the wall outlet securely.
The unit does not start playback.	<ul style="list-style-type: none"> • Insert a playable disc. (Check the disc type, color 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 angle cannot be changed.	<ul style="list-style-type: none"> • Multi-angles are not recorded on the DVD Video being played. • The angle cannot be changed for the titles recorded on this unit.
The channel is not found or stored.	<ul style="list-style-type: none"> • Check your antenna connection.
The remote control does not work properly.	<ul style="list-style-type: none"> • 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 between the remote control and the unit. • The battery in the remote control are exhausted. • The remote's manufacturer code returned to the default setting when you replaced the battery. Reset the code (page 55).

Resetting the unit

Symptom	Cause & Solution
If you observe any of the following symptoms.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • 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.

Playback

Symptom	Cause & Solution
Cannot play a disc recorded using this unit on other unit.	<ul style="list-style-type: none"> Finalize the disc. (see page 31) Check the disc compatibility of the player. Place the disc on the disc tray correctly inside the guide. Discs recorded with copy-once material cannot be played on other players.
The subtitle language cannot be changed or turned off.	<ul style="list-style-type: none"> Subtitles are not recorded on the DVD Video being played. The subtitle cannot be changed for the titles recorded on this unit. In case of Movie, refer to subtitle formats. (pages 10-11)
Cannot play Movie/Photo/Music files.	<ul style="list-style-type: none"> Check the Audio/Video format. (pages 10-11) Check the sampling frequency or bitrate. (pages 10-11)

Recording

Symptom	Cause & Solution
Cannot record or does not record successfully.	<ul style="list-style-type: none"> Check the remaining space on the HDD. If your source is copy-protected, you cannot record it using this recorder.
Timer record does not record successfully.	<ul style="list-style-type: none"> Clock is not set to correct time. The start time of the timer recording is past. When setting the recording programme, make sure you set the recorder's built-in tuner, not the TV's built-in tuner. If the HDD is damaged, the recording may not complete successfully. If you set two timer recordings at the same time, one of that proceeds after another does. Second Timer recording may proceed in a minute.
You cannot enter a timer programme when.	<ul style="list-style-type: none"> In the case that two channels is recording. The time you're trying to set has already passed. There are already 30 timer programs set.
If two or more timer programs overlap.	<ul style="list-style-type: none"> The earlier programme takes priority. In the case a reserved recording is started during recording two channels and a user uses another menu, the reserved recording cannot be operated.

HDMI

Symptom	Cause & Solution
The connected HDMI device does not display any picture.	<ul style="list-style-type: none"> • Try disconnecting then reconnecting the HDMI cable. • Try switching the power of the HDMI device off then back on. • The video input of the connected device is set correctly for this unit. • The HDMI cable you are using is fully HDMI-compliant. Using a non-standard cable may result in no picture being output. • Not all HDCP-compatible DVI devices will work with this unit.
The connected HDMI device does not output sound.	<ul style="list-style-type: none"> • Some HDMI-compatible devices do not output sounds (check the manual that came with the connected device). • If your TV is not capable of handling 96 kHz sampling frequency, set the [Sampling Freq.] option to [48 kHz] on the setup menu. When this choice is made, this unit will automatically convert any 96 kHz signals to 48 kHz so your system can decode them. • If your TV is not equipped with Dolby Digital and MPEG decoder, set the [Dolby Digital] and [MPEG] options to [PCM] on the setup menu.

Customer Support

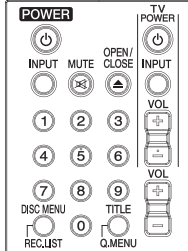
You can update the Player using the latest software to enhance the products operation and/or add new features. To obtain the latest software for this player (if updates have been made), please visit <http://www.lg.com> or contact LG Electronics customer care centre.

Open source software notice

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

Controlling a TV with the Supplied Remote Control

You can control your TV using the buttons below.



By pressing	You can
⏻ (TV POWER)	Turn the TV on or off.
INPUT	Switch the TV's input source between the TV and other input sources.
VOL +/-	Adjust the volume of the TV

! Note

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

Setting up the remote to control your TV

You can operate your TV with the supplied remote control.

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

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

Manufacturer	Code Number
LG	1(Default), 2
Zenith	1, 3, 4
GoldStar	1, 2
Samsung	6, 7
Sony	8, 9
Hitachi	4

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

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

Area Code List

Choose an area code from this list.

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

Language code List

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

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

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Specifications

General	
Power requirements	AC 200-240 V, 50/60 Hz
Power consumption	50 W
Dimensions (W x H x D)	Approx. 430 x 55.5 x 270 mm without foot
Net Weight (Approx.)	3.46 kg
Operating temperature	5 °C to 35 °C
Operating humidity	5 % to 90 %
Television system	DVB-T Standard Compliant

TV Recording	
Recording format	TS (Transport Stream format)
Recordable media	Hard Disk Drive (500 GB/320 GB/250 GB/160 GB), USB 2.0 HDD

Connectors	
HDMI OUT (video/audio)	19 pin (HDMI standard, Type A)
OPTICAL (DIGITAL AUDIO OUT)	3 V (p-p), Optical jack x 1
ANTENNA IN	Antenna input, 75 Ω
VIDEO IN / OUT	1.0 Vp-p 75 ohms, sync negative, RCA jack x 1
AUDIO IN / OUT	2.0 Vrms more than 47 kohms, RCA jack (L, R) x 1
USB Port	4 pin (USB 2.0 standard) x 1

System	
Laser	Semiconductor laser
wavelength	405 nm / 650 nm
Signal system	Standard PAL/NTSC colour TV system
Frequency response	20 Hz to 20 kHz (48 kHz, 96 kHz, 192 kHz sampling)
Signal-to-noise ratio	More than 100 dB (Analogue OUT connectors only)
Harmonic distortion	Less than 0.008 %
Dynamic range	More than 95 dB
Bus Power Supply (USB)	DC 5 V  500 mA

- Design and specifications are subject to change without notice.

Maintenance

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, benzene, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.

Handling the Unit

When shipping the unit

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

Keeping the exterior surfaces clean

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

Cleaning the unit

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

Maintaining the Unit

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

About the internal hard disk drive

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

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

Web: <http://www.lg.com>
- The manufacturer disclaims responsibility for loss of data contained in internal HDD.
- There are some capacities in HDD reserved for the file system and timeshift.

