

# Blu-ray Disc™ & Smart TV Player

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## Built-in Wi-Fi

Model: HBD316



# Owner's Guide

Thank you for purchasing this Hitachi product.

Please read these instructions carefully. For additional assistance please call 800.HITACHI (800.448.2244) or visit our website at [www.hitachi.us/tv](http://www.hitachi.us/tv). You may download, save and print this Owner's Guide for future reference.

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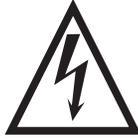
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NOTE: Please read all warnings and instructions carefully before operating this unit.



NO USER SERVICEABLE PARTS INSIDE.  
REFER SERVICING TO QUALIFIED  
SERVICE PERSONNEL.



The 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 appliance.

**WARNING:** TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE, DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

**CAUTION:** THIS DIGITAL VIDEO PLAYER EMPLOYS A LASER SYSTEM. TO ENSURE PROPER USE OF THE THIS PRODUCT, PLEASE READ THIS OWNER'S GUIDE CAREFULLY AND RETAIN FOR FUTURE REFERENCE.

SHOULD THE UNIT REQUIRE MAINTENANCE, CONTACT AN AUTHORIZED SERVICE LOCATION.

USE OF CONTROLS, ADJUSTMENTS OR THE PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS EXPOSURE. TO PREVENT DIRECT EXPOSURE TO THE LASER BEAM, DO NOT TRY TO OPEN THE ENCLOSURE. DO NOT STARE INTO THE LASER BEAM.

**CERTIFICATION:** Complies with FDA performance standards, 21 CFR subchapter J. for laser products except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

**FCC Radiation Exposure Statement:**

This wireless device complies with FCC limits set forth for an uncontrolled environment. Install and operate with a minimum distance of 8 inches between the device & your body.

1. Read these instructions - All the safety and operating instructions should be read before this product is operated.
2. Keep these instructions - These safety and operating instructions should be retained for future reference.
3. Heed all warnings - All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow all instructions - All operating and use instructions should be followed.
5. Do not use this apparatus near water - The appliance should not be used near water or moisture (for example, in a wet basement or near a swimming pool).
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacture's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding plug. A polarized plug has two blades with one wider than the other. A grounding plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart or rack is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug the apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. **WARNING:** Do not install this equipment in a confined space such as a book case or similar unit. Do not cover the ventilation openings with items such as newspaper, table-cloths, curtains etc.
16. **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall not be placed on apparatus.
17. **WARNING:** The mains plug is used as disconnect device, the disconnect device shall remain readily operable.
18. Do not expose battery pack or batteries installed to excessive heat such as sunshine or fire.
19. Do not use with a voltage other than the power voltage specified. Doing so could cause fire, electrical shock or damage. Connect to 120VAC, 60Hz power only.
20. Do not look into the opening of the disc slot or ventilation opening of the product to see the source of the laser beam. It may cause eye damage.
21. Keep your fingers clear of the disc slot as it is closing. It may cause injury.
22. Do not use a cracked, deformed or repaired disc. These discs are easily broken and may cause serious personal injury and product malfunction.



## Cinavia Notice

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

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

This product incorporates proprietary technology under license from Verance Corporation and is protected by U.S. Patent 7,369,677 and other U.S. and worldwide patents issued and pending as well as copyright and trade secret protection for certain aspects of such technology. Cinavia is a trademark of Verance Corporation. Copyright 2004-2010 Verance Corporation. All rights reserved by Verance. Reverse engineering or disassembly is prohibited.

All firmware updates include Cinavia™ content protection technology. Information about Cinavia technology is provided at the Cinavia Online Consumer Information Center at <http://www.cinavia.com>.

This device 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.



### Disposal of your old appliance

All electrical and electronic products should be disposed of properly.

Do not put in trash. Recycle or dispose of according to applicable laws.

For product recycling and disposal information, contact your local government agency or visit [www.ecyclingcentral.com](http://www.ecyclingcentral.com) (in USA) or [www.epsc.ca](http://www.epsc.ca) (in Canada).

For more info, call 800.HITACHI.



This product meets ENERGY STAR requirements and will automatically enter SLEEP mode after a few minutes of no menu or disc activity. Press a remote control button (except Power) to wake if screensaver is visible. Press Power button if the player is fully asleep (blank screen).

## Declaration of Conformity:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. For questions regarding this declaration contact:

Hitachi America, Ltd.  
900 Hitachi Way  
Chula Vista, CA 91914-3556  
ATTN: Customer Relations

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance with FCC rules could void the user's authority to operate this equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## GENERAL CARE

- The top and rear panels of the unit may become warm after a long period of use. This is not a malfunction.
- When the unit is not in use be sure to remove the disc and turn off the power.
- If you do not use the unit for a long period, the unit may not function properly in the future. Turn on and use the unit occasionally.
- Do not place foreign objects on the tray.

## LOCATION

Do not place the unit in locations such as:

- Near heating devices or in an enclosed vehicle.
- High temperature (40° C or higher) or high humidity (90% or higher).
- Dirty places.
- Avoid direct exposure to sunshine.

## NOTES ON MOISTURE CONDENSATION

The pickup may suffer from condensation under the following situations.

- When you bring the unit directly from a cold place to a warm place.
- When you use the unit in a room where you just turned on the heater, or a place where the cold air from the air conditioner directly hits the unit.
- During the summer, when you use the unit in a hot and humid place just after you move the unit from an air conditioned room.
- The room is vaporous or damp.

If condensation exists, the unit will not operate properly. Remove the disc, connect the power cord of the unit to the wall outlet, turn on the unit, and leave it for two or three hours. After two or three hours, the unit will have warmed up and evaporated any moisture. Keep the unit connected to the wall outlet will ensure moisture condensation will seldom occur.

## ON HANDLING DISCS

- Do not touch the playback side of the disc.
- Do not attach paper or tape to disc.



## ON CLEANING DISCS

- Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the centre outwards with a soft cloth. Always keep the disc clean.



- If you can not wipe off the dust with a soft cloth, wipe the disc lightly with a slightly moistened soft cloth and finish with a dry cloth.
- Do not use any type of solvent such as thinner, benzene, commercially available cleaners or antistatic spray for vinyl Lps. It may damage the disc.

## ON STORING DISCS

- Do not store discs in a place subject to direct sunlight or near heat source.
- Do not store discs in place subject to moisture and dust such as a bathroom or near a humidifier.
- Store discs vertically in a case. Stacking or placing object on discs outside or their case may cause warping.

## Features

- Full high-definition video playback at up to 1080p resolution for an amazing viewing experience.
- Upconversion of standard definition DVDs for enhanced picture quality at up to 1080p over an HDMI connection.
- Rich multi-channel surround sound.
- Easy and simple HDTV connection using a single HDMI cable (cable not included).
- Multiple outputs for connecting your home theater system or amplifier.
- PIP functionality that lets you display primary and secondary video at the same time (only available with Blu-ray Discs that include the BONUS VIEW feature).
- The POPUP MENU can be displayed while the disc is playing on compatible Blu-ray Discs.
- HDMI 1080p output (Blu-ray Disc only) that provides smooth playback of video with a frame rate of 60 frames per second and (TV must be connected with an HDMI cable and be compatible with 1080p 60 frame signals).

The following types of discs are compatible with this player:

Disc type	Logo
Blu-ray Disc	
DVD-video Disc (DVD-ROM)	
Audio CDs (CDDA)	
DVD-RW	
DVD+RW	

Disc type	Logo
DVD-R	
DVD+R	
CD-R	
CD-RW	

## NOTES:

- Writeable DVD disks (DVD-R/RW, DVD+R/RW) must be finalized for playback in the VR-mode only.
- Some discs may not playback if the finalization is not compatible.
- Many discs do not include special features including multi-angle selection, aspect ratio selection and PIP.
- See the disc packaging for information about the features that each disc includes.
- Do not allow the disc to become dirty or scratched. Fingerprints, dirt, dust, scratches or deposits on the disc surface may make it impossible to play the disc.
- CD-R/-RW, DVD-RW/-R must be recorded with the UDF or ISO9660 format to be played.
- Windows Media Audio (WMA) files must be written to the disc with a .wma file extension in order to be recognized and played back properly.
- JPEG picture files must be written to the disc with an .jpeg or .jpg file extension in order to be recognized and played back properly.
- This player is compatible with discs that are region coded A for Blu-ray content and region coded 1 for DVD content, as identified by their respective marks shown at right.



Blu-ray



REGION 1

## ACCESSORIES

- Remote Control
- AAA Batteries (x2)
- Quick Start Guide
- AV Cable



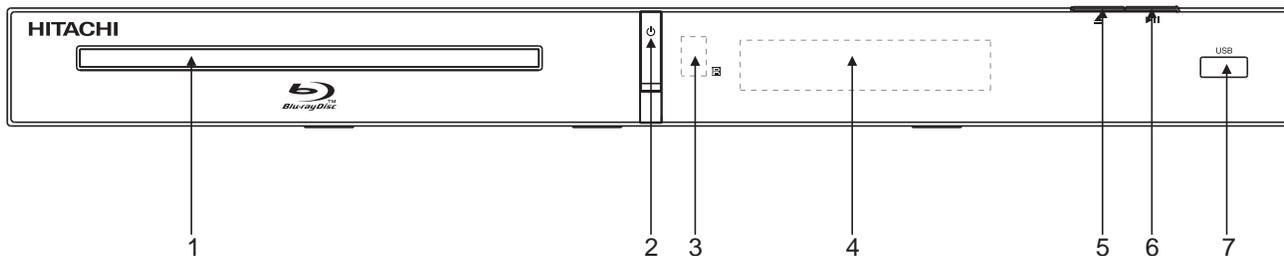
Remote Control

AAA Battery (x2)

Quick Start Guide

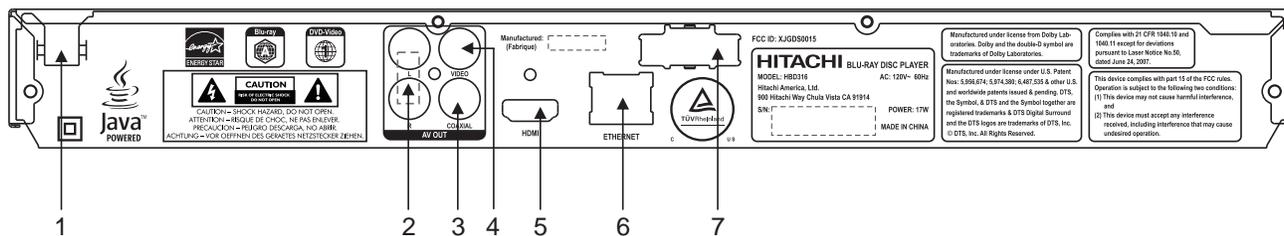
AV Cable

## FRONT PANEL



- |                                                                                                                                                   |                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. DISC TRAY</li> <li>2. POWER BUTTON</li> <li>3. REMOTE CONTROL SENSOR</li> <li>4. LED DISPLAY</li> </ol> | <ol style="list-style-type: none"> <li>5. OPEN/CLOSE BUTTON</li> <li>6. PLAY/PAUSE BUTTON</li> <li>7. USB PORT</li> </ol> |
|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|

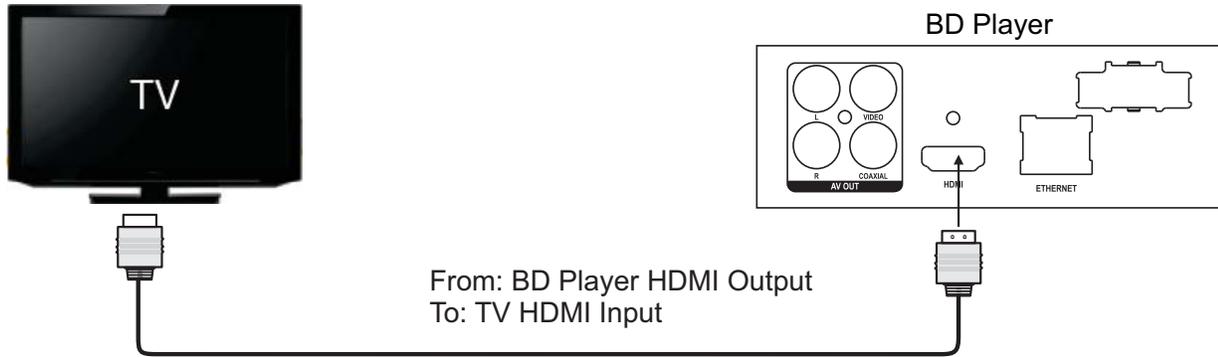
## REAR PANEL



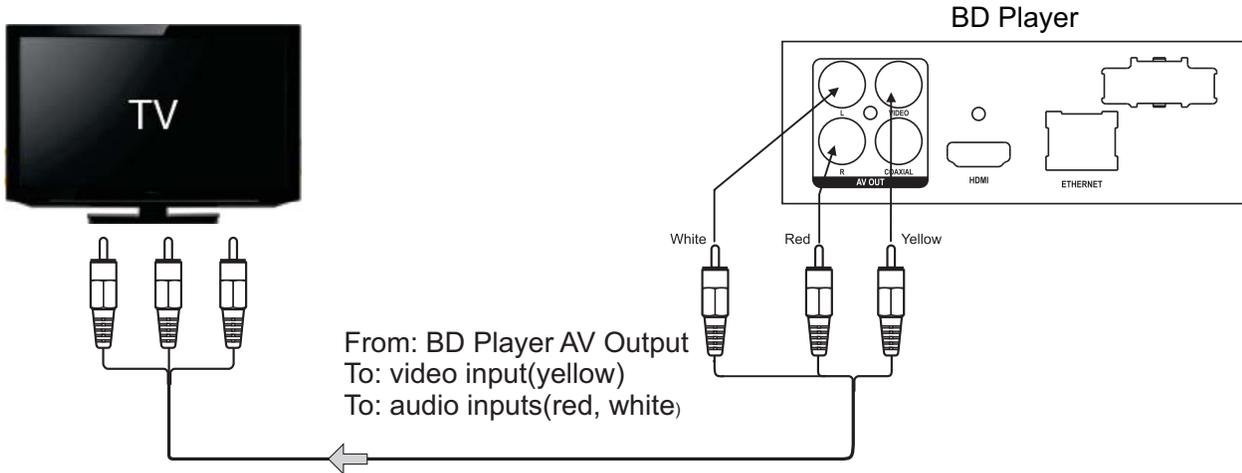
- |                                                                                                                                                          |                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. POWER CORD</li> <li>2. L/R AUDIO OUTPUT</li> <li>3. COAXIAL DIGITAL OUTPUT</li> <li>4. VIDEO OUTPUT</li> </ol> | <ol style="list-style-type: none"> <li>5. HDMI OUTPUT</li> <li>6. ETHERNET INTERFACE</li> <li>7. BUILT-IN Wi-Fi ANTENNA</li> </ol> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|

## BASIC CONNECTION

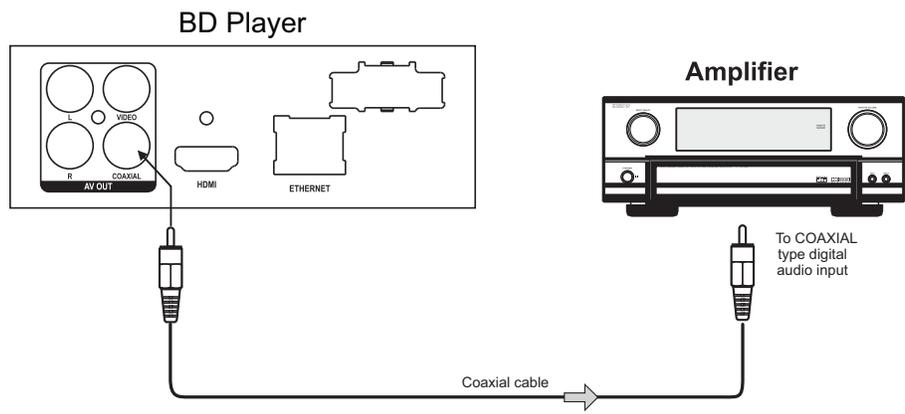
### BEST Choice: Connect to a TV or Display with HDMI



### Connect to a TV with AV cable



### DIGITAL AUDIO connection to an amplifier equipped with a digital audio input

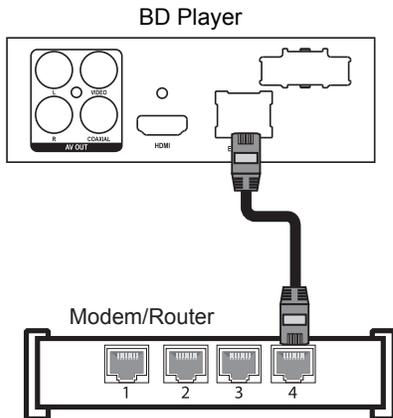


## Connecting to your Home Network

This player can be connected to a local area network (LAN) using either the Ethernet port on the rear panel or the internal wireless transmitter and receiver.

### Wired network

Connect the player's Ethernet port to the corresponding port on your Modem or Router using an Ethernet cable.



Using a wired network provides the best performance because the attached devices connect directly to the network.

#### NOTES:

- When plugging or unplugging the Ethernet cables, hold the plug portion of the cable. When unplugging carefully press down on the locking portion of the connector before removing the cable end.
- Do not connect a modular phone cable to the Ethernet port.

### Wireless network

#### A. Select Connection Type from the HOME Menu:

HOME-Settings-Connection Type-Wireless Network menu.

There are 3 ways to connect to a wireless network:

1. Scan: To automatically search and select your network.
2. Manual: You enter the router's name or SSID.
3. WPS: Connects your player to a protected Wi-Fi router.

**NOTE:** For text entry in Network menus, press remote control's ENTER key to access the Blu-ray player's on-screen keyboard.

### Wireless network (continued)

#### B. Select Network Information:

View the network information including address type, IP address, subnet mask, etc.

#### C. Select Connection test:

The Connection Test menu item allows you to test the connection of the player to the internet.

#### D. Select IP Setting:

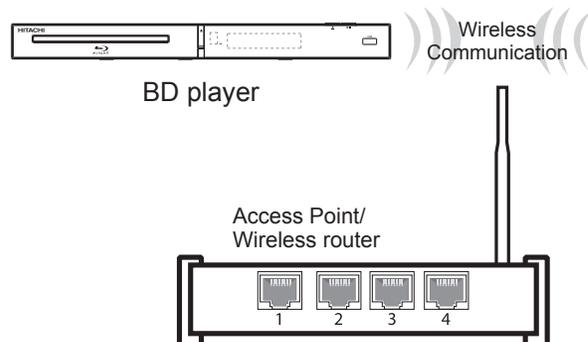
There are two options: Auto and Manual

Auto: The internet (IP) address is chosen for you.

Manual:

1. The Network Information page will display; enter your IP address.
2. Use the CURSOR buttons to move the highlighter among the columns. Use the digit keys to enter the IP address value, use the CLEAR button to clear entries.

This player is equipped with an IEEE 802.11n wireless module, which also supports the 802.11b/g standards. For the best wireless performance, we recommend using a IEEE 802.11n certified Wi-Fi network.



Once your Blu-ray player is connected to the Internet, you can watch streaming video from Netflix, VUDU or YouTube and listen to Internet radio from Pandora. These services can be accessed from the player's HOME menu icons shown below (and for Netflix and VUDU via dedicated buttons on the remote control).

Network services (such as Netflix, VUDU, etc.) require a working broadband Internet connection (at least 1 to 2 Mbps for Standard Definition and up to 5Mbps or more for High Definition video). Some network services require a one-time and/or recurring payment and the creation of a separate account through a computer with Internet access.



Follow Netflix on-screen instructions to enter your activation code.

Netflix help is available at 1-866-579-7113.

U.S. – Netflix unlimited streaming membership required.

International – Netflix is available in certain countries.

Unlimited membership required. More information at [www.netflix.com](http://www.netflix.com).



Follow VUDU on-screen instructions. If you have questions call VUDU Customer Care at 1-888-554-8838.



When selected from the HOME menu, use remote control's Cursor keys to select and play YouTube videos.

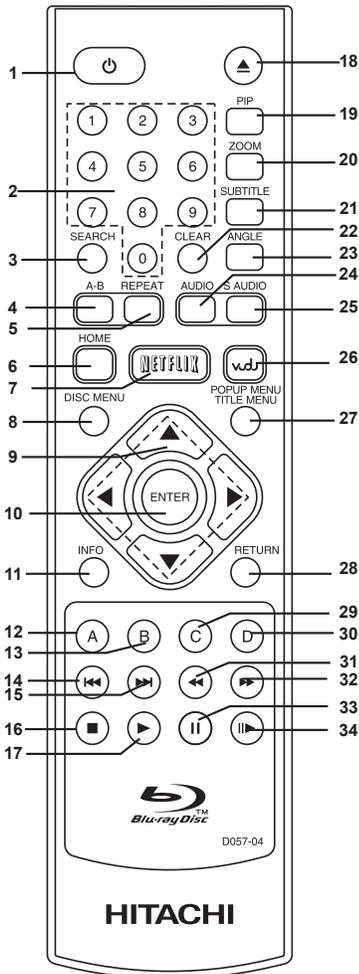


Follow Pandora's on-screen instructions to login or setup a new user account. For new accounts you will receive an activation code. On your PC go to Pandora's web site and enter your activation code to start the service.

### NOTE:

HITACHI MAKES NO REPRESENTATIONS OR WARRANTIES TO YOU REGARDING THE CONTENT, AVAILABILITY, PERFORMANCE, RELIABILITY OR FUNCTIONALITY OF ANY THIRD PARTY INTERNET-BASED SERVICES OR RELATED SOFTWARE OR FIRMWARE UPGRADES OR UPDATES YOU ACCESS OR ATTEMPT TO ACCESS USING THIS PLAYER, AND HITACHI DOES NOT WARRANT THAT SUCH SERVICES WILL BE UNINTERRUPTED, ERROR FREE OR SATISFACTORY. ANY IMPLIED WARRANTY, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR USE FOR A PARTICULAR PURPOSE, OF ANY SUCH THIRD PARTY INTERNET-BASED SERVICE OR ANY SUCH UPGRADES OR UPDATES, IS EXPRESSLY EXCLUDED AND DISCLAIMED.

## REMOTE CONTROL

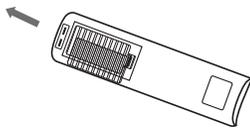


### Function

- |                                        |                                             |
|----------------------------------------|---------------------------------------------|
| 1. POWER/STANDBY                       | 18. OPEN/CLOSE DISC TRAY                    |
| 2. 0-9 KEYS                            | 19. PICTURE IN PICTURE<br>(SECONDARY VIDEO) |
| 3. SEARCH                              | 20. ZOOM                                    |
| 4. A-B REPEAT                          | 21. SUBTITLE                                |
| 5. REPEAT                              | 22. CLEAR                                   |
| 6. HOME                                | 23. ANGLE                                   |
| 7. NETFLIX                             | 24. AUDIO                                   |
| 8. DISC MENU                           | 25. SECONDARY AUDIO                         |
| 9. CURSOR KEYS<br>(UP/DOWN/LEFT/RIGHT) | 26. VUDU                                    |
| 10. ENTER                              | 27. POPUP MENU/TITLE MENU                   |
| 11. INFORMATION                        | 28. RETURN                                  |
| 12. RED(A)                             | 29. YELLOW(C)                               |
| 13. GREEN(B)                           | 30. BLUE(D)                                 |
| 14. PREVIOUS TRACK                     | 31. FAST REVERSE                            |
| 15. NEXT TRACK                         | 32. FAST FORWARD                            |
| 16. STOP                               | 33. PAUSE                                   |
| 17. PLAY                               | 34. STEP                                    |

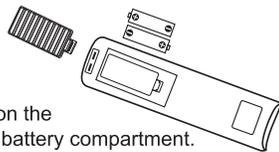
## Installing Batteries

1. Open the cover.

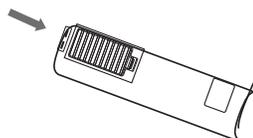


2. Insert two AAA batteries.

Make sure to match the + and - on the batteries to the marks inside the battery compartment.



3. Close the cover.



### NOTES:

- Do not insert batteries into the remote control in the wrong direction.
- The batteries shall not be exposed to excessive heat such as sunshine, fire or the like.
- Do not use different types of batteries together, or mix old and new batteries.
- If the remote control does not function correctly or if the operating range becomes reduced, replace all the batteries with new ones.
- Please use caution when inserting batteries to avoid battery damage. If the spring terminal in the remote control remains in contact with a side of a damaged battery it can cause a short circuit. Never use damaged batteries as they can become very hot and dangerous.

## Basic playback

1. Press the POWER button on the remote control or on the BD Player front panel to turn on the player.
2. Turn on the TV and then select the TV input that matches to the where the player is connected.
3. Press OPEN/CLOSE ▲ to open the disc tray.
4. Place a disc on the disc tray with the label facing up, then press OPEN/CLOSE ▲ to close the disc tray. It will take a few seconds for the disc to load.
5. If the disc does not start playing automatically press PLAY .
6. If a Blu-ray Disc or DVD menu opens, use the CURSOR buttons to select PLAY, then press ENTER.
7. To eject the disc, press OPEN/CLOSE ▲ .

## Fast Forward and Fast Reverse

1. Press F.FWD ►► to fast forward through the disc. Each time the F.FWD ►► button is pressed, the fast forward motion speed changes. The speed will increase through the following sequence: ►►1, ►►2, ►►3, ►►4, ►►5.
2. Press PLAY ► to resume normal playback.
3. Press F.REV ◄◄ to fast reverse through the disc. Each time the F.REV ◄◄ button is pressed, the fast reverse motion speed changes. The speed will increase through the following sequence: ◄◄1, ◄◄2, ◄◄3, ◄◄4, ◄◄5.
4. Press PLAY ► to resume normal playback.

## Previous and Next

During normal playback, press PREV◄◄ once to return to the start of the current chapter/track. Press PREV◄◄ twice(quickly) to jump to the previous chapter/track. Press NEXT ►► during playing to jump forward to next chapter/track for playback.

## 0-9 Keys for Direct Access

When playing a disc you can press the SEARCH and then the ENTER keys for direct access to a specific title, chapter, track, or time. Use the number keys to enter the desired chapter or time. In the menu mode the 0-9 keys are short cuts.

## Stop Playback

1. Press the STOP ■ button to stop playback of a Disc. The BD player can recall the location where the disc was stopped and return to play at the remembered position.
2. Press the PLAY ► button to resume playing the disc from the previous position.
3. Press STOP twice to clear the recall memory.

Note: Not all Blu-ray Discs support the resume feature. The resume information is saved even when the power is turned off.

## Pause Playback

1. Press the PAUSE II button to pause playback. The picture and sound will be paused.
2. Press PAUSE II or PLAY ► button to resume playback.

## Step Forward

1. When playing a Disc press the Step forward key II► to enter Single-step playback.
2. Press PLAY ► key to resume normal play.

## CURSOR Keys (UP/DOWN/LEFT/RIGHT)

Use the CURSOR keys to navigate menus. When an on-screen item is highlighted press ENTER to select. When viewing a picture(JPEG file), use the CURSOR keys to rotate the picture.

## ∅ Symbol

The “∅” symbol will appear on-screen when an operation or feature is not supported by the Disc or BD player. Please see the disc packaging to confirm the features included in the Disc.

## IMPORTANT NOTE:

The following functions are supported by some but not all Blu-ray Discs. Please refer to the Disc packaging for more information on what features are supported by the Disc.

### ZOOM

Press to zoom in on the image. Each time you press this button, the magnification level changes.

Note: this function is not supported by Blu-ray Discs using Java technology.

### SUBTITLE

Press this button to switch between available subtitles. The display will show "X/X XXX", and " Off ".

The first "X" indicates the current subtitle language.

The second "X" indicates total number of available subtitle languages. "XXX" indicates the subtitle language of country.

(The number of subtitle languages depends on disc).

### SEARCH

When playing a disc you can press the SEARCH and then the ENTER keys for direct access to a specific title, chapter, track, or time. Use the number keys to enter the desired chapter or time.

In the menu mode the 0-9 keys are short cuts.

Press the SEARCH button again to cancel the search operation.

NOTE: TITLE search is not supported on some discs.

### CLEAR

This button clears information you may have entered by mistake.

### MULTI-ANGLE

Press this button to change select from the available camera angles. The on-screen display will indicate " Angle: X/X " where the first "X" indicates the current angle and the second "X" indicates total number of available angles.

**NOTE:** the Multi-Angle function is only available on special discs that are encoded with multiple angles.

### A-B Repeat

Press the "A-B" button to select the starting point for the section you wish to repeat. After a minimum of two seconds press the "A-B" button again to set the ending point of the section you are repeating. The selected will be repeated. Press the "A-B" button again to cancel this function. Note: A-B repeat is not supported on Blu-ray Discs with Java technology.

### REPEAT

Press the REPEAT button one or more times to select a repeat mode.

Repeat Chapter

Repeat Title

Repeat All

Repeat Off

#### NOTE:

1. The REPEAT feature is not available when playing a Blu-ray Disc with JAVA technology.
2. Some Blu-ray Discs do not support "Repeat All".

### AUDIO

Press the AUDIO button to change the audio mode.

EXAMPLE: "1/2 English Dolby Digital stereo" .

"1" indicates the current audio selection;

"2" indicates total available audio selections

"English" indicates the language of country.

"Dolby Digital" indicates the AUDIO format.

"Stereo" indicates that a 2-channel format is playing..

### HOME

Press this button and the screen will display the HOME menu.

Note: The HOME menu is displayed when a disc stops playing or if there is no disc in the player.

### NETFLIX

Press this button to access the NETFLIX application when connected to the Internet.

### VUDU

Press this button to access the VUDU application when connected to the Internet.

### PANDORA

Select the PANDORA icon from the HOME Menu to access the PANDORA application when connected to the Internet.

### YOUTUBE

Select the YOUTUBE icon from the HOME Menu to access the YOUTUBE application when connected to the Internet.

### DISC MENU

Press the DISC MENU button during DVD or Blu-ray Disc playback to access the menu for the disc that is currently playing.

## POPUP MENU/TITLE MENU

During DVD/Blu-ray Disc playback, press the POPUP MENU/TITLE MENU key to access the disc menu.

The POPUP menu will appear on-screen:

1. Use the CURSOR keys (LEFT/RIGHT/UP/DOWN) to navigate the menu.
2. Press the ENTER key to select from the MENU.
3. Press the RETURN key to close the menu.

## INFO

Press the INFO button to display:

1. The type of disc
2. Current chapter
3. Total number of chapters
4. Elapsed time in the current title
5. Type of audio information

## RETURN

Press the RETURN key to navigate to the previous menu screen.

## SPECIAL FEATURES INCLUDED ON SELECT BLU-RAY DISCS

### INTRODUCTION

The storage capacity of a Blu-ray Disc delivers high definition pictures and sound as well as special features on some discs.

### BLU-RAY DISC AND JAVA

This player features Java technology for playback of compatible Java Blu-ray Discs.

### BLU-RAY AND HDMI

HDMI is the best choice for connecting your Blu-ray player to a high definition television or AV Receiver.

### BLU-RAY DISC PLAYBACK

Blu-Ray discs playback offers enhanced interactivity compared to standard DVDs.

### NOTES:

**PLAY RESUME:** The Play Resume feature is not available on BD-Java discs.

**A-B repeat** is disabled on some discs.

## ENHANCED FEATURES

### BONUS VIEW: PICTURE IN PICTURE(PIP)

**NOTE:** This special feature is only on some Discs.

**Please see the package for details about the feature content on each disc.**

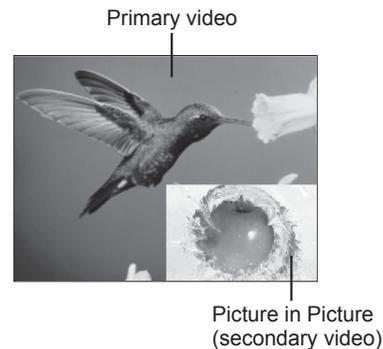
#### During Play:

Press the PIP key to turn on Picture-in-Picture (Secondary Video)

1. The Secondary video plays. Press the PIP key to turn the feature "X/Y AVC" and OFF.

"X" indicates the selected video

"Y" indicates total number of video selections.



### SECONDARY AUDIO

**To select the secondary audio press the S AUDIO key.**

Press the S AUDIO key to select "X/Y English DTS-HD LBR Stereo" and OFF.

"X" indicates the current audio;

"Y" indicates total number of audio tracks;

"English" indicates the language of country;

"DTS-HD LBR" indicates the description of the current audio;

"Stereo" indicates the current audio.

**Note:** PIP is not available during search or frame-by-frame playback. PIP functionality is also referred to as Bonus View.

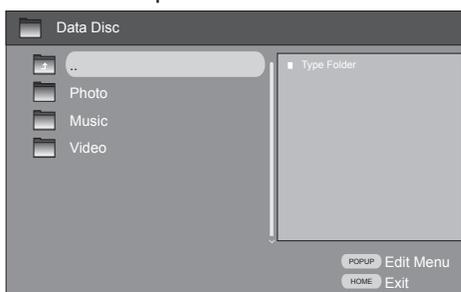
### COLOR BUTTONS

The **RED**, **GREEN**, **YELLOW** and **BLUE** buttons are used with interactive menus when playing a BD-Video disc that includes Java technology (BD-J). For more information about operating this BD-J discs, please read the instructions that came with the disc. The COLOR buttons are also used with BD-Live discs.

## MY MEDIA

### INTRODUCTION

1. MY MEDIA allows you to browse and play multimedia files on discs and USB drives.
2. For Data Disc menu: Opens automatically.
3. For USB Drive: Use the LEFT and RIGHT buttons on the remote control to select the MY MEDIA icon and then press the ENTER button to open the MY MEDIA menu.
4. Use the UP/DOWN keys to highlight "Data Disc" or "USB1" and then press ENTER to confirm.



#### NOTE:

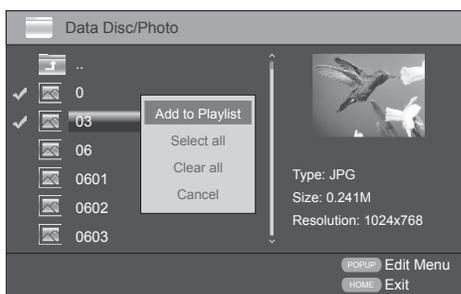
- The maximum file name length is 255 characters.
- The directory length can be up to 1152 characters.
- USB drive access is only available when video discs are not being played.

### Using the Edit Menu

Use the UP/DOWN CURSOR keys to select a file. Then press the RIGHT CURSOR key to confirm, Then press the POPUP MENU for the Edit menu.

The Edit menu allows you to do the following:

1. Add to the Playlist: Select a folder or file to add to the Playlist.
2. Select all: A check mark indicates all files or folders are selected.
3. Clear all: All folders or files are cleared from selection.
4. Cancel: Exit the Edit menu.



**NOTE:** Select All can highlight up to 100 files. If there are more than 100 files then only the first 100 files will be highlighted.

### Using the Playlist

You can customize your playlists by adding files using the Edit menu.

1. Select the Playlist folder from the Browser menu.
2. There are 3 folders under Playlist: Photo, Music, and Video.

3. Select your desired file or all files to playback.

NOTE: The Playlist will be cleared when power is turned off.

The maximum file number for each sub-folder is 100.

- Photo
- Music
- Video

### Viewing a Photo File

In MY MEDIA, you can browse and view your photo files.

1. Use UP/DOWN CURSOR keys to highlight the photo you want to view from the File Browser, then press to ENTER to select. When the file is highlighted you can preview the thumbnail before opening the file.
2. You can view all of the photos in a slide show.

### Tips for Photo Viewing

UP/DOWN/LEFT/RIGHT CURSOR keys:

Use the CURSOR keys to rotate the photo.

- PAUSE: Press PAUSE to pause the Slide show, then press PLAY to resume play.
- STOP: Press STOP to fully stop the Slide show and return to File Browser.
- REPEAT Track/ALL: Playback one photo or play all photo files continuously. Press the REPEAT key to change the repeat mode:
  - Repeat Track-Repeat All-Repeat Off.
  - FF/FR: Change the picture playback speed:
    - Fast(1 second), Middle(2 seconds), Slow(3 seconds).

INFO: Open the Display menu to view picture playback information.

**NOTE:** This player supports JPEG photo files.

The file type, size, and resolution are displayed in the preview area.

### Playing Music Files

Supported file types: WMA, AAC, PCM

In My Media, you can browse and playback music files.

1. Use the UP/DOWN CURSOR keys to highlight the file you want to play from the File Browser  
Press ENTER or PLAY to start playback.
2. In the File Browser the music file type, total time, title, artist, album, and the genre are displayed in the preview area.

### Tips for Playing Music Files

- PAUSE: Press PAUSE to freeze playback, then press PAUSE or PLAY to resume playback.
- STOP: Press STOP one time to stop playback. The STOP/RESUME feature will remember your position. Press play to resume playback or Press STOP a second time to return to the File Browser.
- REPEAT Track/ALL: Playback one track or all files repeatedly. Press this key repeatedly to change the repeat mode:
- Repeat Track-Repeat All-Repeat Off.
- REPEAT A-B: Playback a selected segment (A-B) repeatedly.

### Playing Video Files

Supported file types: MPEG4, WMV9, MKV.

In My Media, you can browse and play video files.

1. Use UP/DOWN CURSOR keys to highlight the video file you want to play from the File Browser, then press ENTER or PLAY to start playback.
2. In the File Browser, the video file type is displayed in the preview area.

### Tips for Playing Video Files

- PAUSE: Press PAUSE to freeze playback, then press PAUSE or PLAY to resume playback.
- STOP: Press STOP one time to stop playback. The STOP/RESUME feature will remember your position. Press play to resume playback or Press STOP a second time to return to the File Browser.
- REPEAT Track/ALL: Playback one track or all files repeatedly. Press this key repeatedly to change the repeat mode:
- Repeat Track-Repeat All-Repeat Off.
- REPEAT A-B: Playback a selected segment (A-B) repeatedly.
- INFO: Open the Display menu to view information about the selected Video file.

### BD-Live Interactive Disc Playback

BD-Live feature playback requirements:

1. A BD-Live Disc
2. A High-Speed Internet Connection
3. A minimum of 1GB of USB memory

BD-Live features can include:

- the ability to download movie trailers,
- additional 'commentary' by actors and directors,
- multi-person game play and chat

NOTE: BD-Live is sometimes labeled or noted on the disc packaging as BONUS VIEW.

### Updating the BD Player Software

**IMPORTANT NOTE:** When the software update is in progress do not turn the player OFF.

**There are several ways to update the operating software for this player:**

#### 1. Automatic Network Update:

When the player is connected to the Internet and powered "ON" the player will automatically check for the latest operating software for this player.

#### 2. Manual Network Update:

- A. Connect the player to the internet:
- B. Press the HOME key to access the HOME menu  
Select: Settings-System- Firmware Update-Network.  
When a newer version of the software is identified by the player, follow the on-screen instructions to install the latest version.

#### 3. Manual Update: USB Drive or Data Disc

Place the updated software (USB drive or data disc) into player. After the updated software is identified by the player, follow the on-screen instructions.

To complete the update press ENTER to restart the player.

**NOTE:** If the software version is an older version or the file is incomplete the error prompt will be displayed on-screen. Please make sure the firmware version is a newer version than the installed version.

The HOME menu is displayed when a disc stops playing or there is no disc in the player.

1. Within the HOME menu, you can use the LEFT and RIGHT CURSOR keys to navigate and highlight menu items. Press the ENTER key to make a selection. Press the RETURN key to return to the previous menu.
2. Press the HOME key at any time to display the HOME menu.

## QUICK SETUP

Within the HOME menu highlight QUICK SETUP. Press the ENTER key to open the QUICK SETUP menu.

### NOTE:

- The first time you turn on your player, the Quick Setup Wizard opens automatically. The wizard will guide you through the initial settings for your player, including menu language and video resolution.

## SETTINGS

Within the HOME menu, highlight Settings and then press the ENTER key to open the Settings menu.

### 1. Display

Display	TV Aspect Ratio	16:9 Normal
Audio	Resolution	Auto
Language	TV System	NTSC
Network	HDMI Color Space	Auto
System	HDMI Deep Color	Auto
Security	HDMI 1080p 24Hz	Off

Use cursor keys to highlight menu and Enter key to select

RETURN HOME Exit

#### 1.1 TV Aspect Ratio

Select the Aspect Ratio:

**16:9 Normal:** For a disc with a 4:3 aspect ratio, the video will be centered on the display.

**16:9 Full:** For a disc with a 4:3 aspect ratio, the output video is stretched to fill a 16:9 wide screen.

**4:3 Pan&Scan:** Use this selection if you have a 4:3 Display. Some of the signal will not be visible on screen.

**4:3 Letterbox:** Select when a standard 4:3 TV is connected. The complete signal will be displayed, with black borders on the top and bottom of the 4:3 screen.

#### 1.2 Resolution

Select the video output resolution: Auto, 1080p, 1080i, 720p, 480p and 480i.

Auto: Set to Auto to have the player determine the optimum setting for Resolution.

### NOTES:

- HDMI is the preferred connection. If HDMI is connected then the composite video output is disabled.
- To enable composite video playback connect the player to an HDMI display and select Auto or 480i resolution.
- See the Owner's Guide for your television to determine supported resolutions. Set the player to output a resolution that is supported by your TV.
- Only the HDMI output of the player is capable of supporting 1080p video output.
- The Composite video output only supports 480i.

#### 1.3. TV System

Select TV system:

NTSC: Select this option when connected with NTSC-TV.

#### 1.4 HDMI Color Space

Select HDMI Color Space: Auto, YCbCr, YCbCr422, Full RGB and RGB.

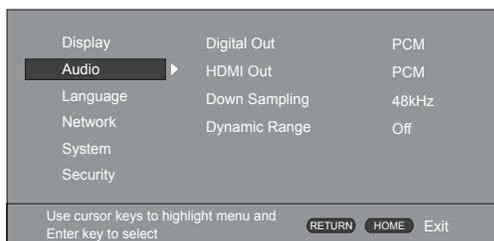
#### 1.5 HDMI Deep Color

Select HDMI Deep Color: Auto, On and Off.  
Note: Select Auto for the best performance.

#### 1.6 HDMI 1080p 24Hz

Select HDMI 1080p 24Hz: Auto and Off.  
Default is "Off." Set to "Auto" only if your TV supports 24Hz frame rate.

## 2. Audio



### 2.1 Digital Out

Select the output mode of the DIGITAL OUT jack.

**PCM:** The signal is compatible with most audio video receivers. Use PCM when your receiver cannot decode the movie soundtrack on the disc.

**Bitstream:** Outputs the movie soundtrack without any processing. This option requires a receiver that supports the format of the movie soundtrack.

**Bitstream Re-encode:** Outputs as DTS, Dolby, or PCM depending on the audio stream on the disc.

### 2.2 HDMI Out

Select the output mode of HDMI DIGITAL OUT jack.

**PCM:** The signal is compatible with most audio video receivers. Use PCM when your receiver cannot decode the movie soundtrack on the disc.

**Bitstream:** Outputs the movie soundtrack without any processing. This option requires a receiver that supports the format of the movie soundtrack.

**Bitstream Re-encode:** Automatically selects the HDMI digital signal type according to the audio stream on the disc.

### 2.3 Down Sampling

Select the digital audio signal sampling frequency.

**48kHz:** The highest sampling rate of digital PCM output is 48kHz. If the original sampling rate is over 48kHz, it will be down-sampled to 48kHz or below. This option should be selected only when the receiver is not capable of handling signals over 48kHz sampling rate.

**96kHz:** The highest sampling rate of digital PCM output is 96kHz.

**192kHz:** The highest sampling rate of digital PCM output is 192kHz.

### 2.4 Dynamic Range

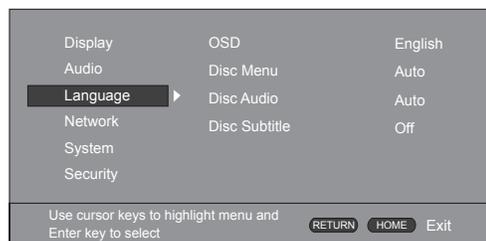
Dynamic Range is the range between the loudest sounds and the quietest whispers.

Select the Dynamic Range:

**Off:** Full dynamic range for dramatic movie playback.

**On:** Dynamic range compression is activated to reduce the loudest sounds and raise the volume of the quiet scenes.

## 3. Language Selection



### 3.1 OSD

Select the On-Screen Display(OSD) language.

### 3.2 Disc Menu

Select the **disc** menu language.

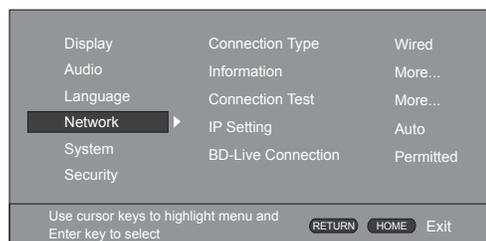
### 3.3 Disc Audio

Set the **disc** audio language.

### 3.4 Disc Subtitle

Set the **disc** subtitle language.

## 4. Network Setup



### 4.1 Connection Type

There are two options: Wired or Wireless.

**Wired:** Connect a LAN cable from the Ethernet jack on the back of your player to your wired home router.

**Wireless:** There are three types of wireless network connections:

- a. Scan: Automatically searches for networks in range.
- b. Manual: Lets you enter a router's name or SSID.
- c. WPS: Connects your player to a WPS protected Wi-Fi router.

**NOTE:** For text entry in network menus, press remote control's ENTER key to access the on-screen keyboard.

## 4.2 Network Information

Select Network Information to view the Network Address Type, IP Address and Subnet Mask.

## 4.3 Connection Test

The Connection Test allows the user to test the internet connection.

## 4.4 IP Address Setting

**Auto:** Best choice, the system sets the IP address.

**Manual:** Set an IP address manually:

- The Network Information page will display, and the IP Address row is highlighted.
- Use the CURSOR keys to navigate the columns and enter the IP address using the 0-9 keys. Use the CLEAR key to clear the entries.
- Press ENTER to confirm the IP address you have entered.

## 4.5 BD-Live Connection

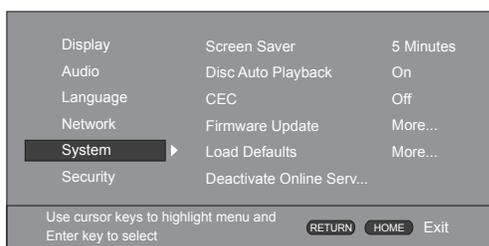
**Select the desired BD-Live connection:**

Permitted: Always allows internet access.

Partial Permitted: Allows internet access to BD-Live content with valid certificates only.

Prohibited: Never allow internet access.

## 5. System



### 5.1 Screen Saver

Select the amount of time before the screen saver activates.

### 5.2 Disc Auto Playback On/Off

When On is selected the disc will automatically start playing when the disc tray is closed.

When Off is selected disc playback will not begin until the PLAY key is pressed.

## 5.3 CEC (Consumer Electronics Control)

CEC allows HDMI connected audio and video products to work together as a system.

For example when CEC is "On", opening the Blu-ray player disc tray and inserting a disc will signal to the TV to Power on and if necessary change to the BD player input.

When you turn Off your TV the HDMI connected and CEC enabled Blu-ray player will enter the stand by mode.

NOTES:

- CEC functions require compatible devices and HDMI connections.
- See your Owner's Guide to determine if your TV or AV Receiver supports CEC functions.

## 5.4 Firmware Update

Please see page 14 for options and instructions for downloading and installing operating firmware updates.

NOTES:

- After the system update the version number will be updated and visible in the system information area.

## 5.5 Load Default Settings

Reset all settings of the Blu-ray Player to the initial factory shipping defaults or condition.

Note: Loading the default settings will reset the Parental Control Password.

## 5.6 Deactivate Online Service

Reset the Online Service settings.

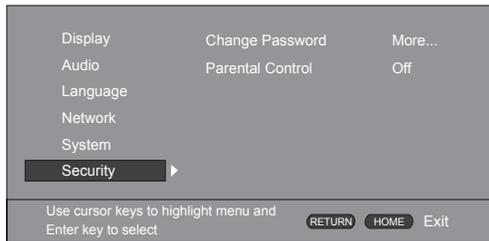
## 5.7 System Information

To view the system related information and Software version.

## 5.8 BD-Live Storage

View information about the storage status or Erase BD-Live data.

## 6. Security

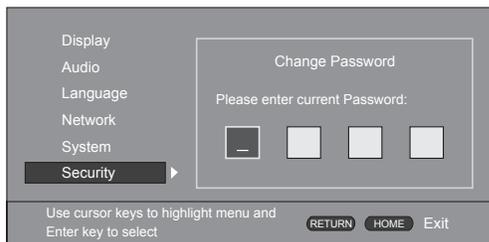


### 6.1 Change Password

Change the password by selecting a new 4 number password.

**NOTE:** (Initial password : 0000)

Be sure to remember your new password. Parental controls require you to enter the password.



### 6.2 Parental Controls

Parental controls allow parents to limit the ratings of discs that can be played back.

Off: All content can be played back.

KID SAFE: Safe for kids.

G: All children and general audience.

PG: Parental guidance.

PG-13: Parental guidance for children under 13.

PGR: Parental guidance recommended.

R: Restricted viewing.

NC-17: No one under 17 allowed.

ADULT: Adult only.

#### NOTES:

- When the parental control is activated and you start playback of a disc with a level higher than the current parental control rating a dialog box will appear on screen asking for the password.
- Authorized parents can then enter the password to play restricted titles without deactivating the parental controls.
- Some discs may require that the Parental Controls be set to Off before playback is permitted.

Problem	Possible Solution
No power.	Check to be sure the power cord is plugged into an active outlet.
No picture.	Make sure the video cable is connected securely.
	The cable may be damaged, try a cable that is known to work.
No sound	Make sure the audio cable is connected securely.
The unit is on but cannot be operated.	Disconnect the AC power supply cord, wait one minute, then reconnect it.
Remote Control does not work.	The batteries may be exhausted. Replace the batteries.
	The remote control is too far from the Blu-ray Player or does not point at the Blu-ray Player.
The playback picture is in poor quality or the sound is distorted.	The disc is dirty. Use a clean cloth to clean the disc before playback.
	The video signal from the external component is copy-protected.
Picture-in-picture is not played with BD-Video.	Confirm whether the disc supports picture-in-picture.
I can't connect to the internet and/or Network.	Check the internet connection, see section 4.3 to test the Network internet connection.
	If the Network Connection Test fails, make sure your modem and/or router is turned on.
	Review each of the menu settings in section 4.
BD-Live isn't working.	Check the internet connection, see section 4.3 to test the Network/internet connection.
	Please check if the disc is a legal copy and has BD-Live content.
	Change the USB device and then test again.
	The USB device may be full. Please erase BD-Live data in the HOME Menu to make room for new data.

**System and Outputs**

VIDEO system	NTSC
Video output	Output level output: 1.0 Vp-p Impedence: 75 $\Omega$ Output connector: Pin jack (1 system)
Audio output	Output level: 2 Vrms (1 kHz, 0 dB) Output connector: Pin jack Number of connectors: 2 channel: 1 system
Digital Audio output	Coaxial digital output: Pin jack
Audio performance (Frequency response:)	DVD (linear audio): 4 Hz to 22 kHz (48 kHz sampling) 4 Hz to 44 kHz (96 kHz sampling) CD-Audio: 4 Hz to 20 kHz S/N ratio:90 dB Dynamic range: 80 dB Total harmonic distortion:0.004 %
HDMI output	Output Connection: Type A. Auto/1080p/1080i/720p/480p/480i

**General**

Power	120V ~ 60Hz
Power consumption	17W
Product Dimensions	L: 360mm W:210mm H: 33mm
Weight	1.4 kg
Operating temperature	5°C to 35°C (41°F to 95°F)
Operating humidity	10% to 80%

**Note:** Designs and specifications are subject to change without notice.



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