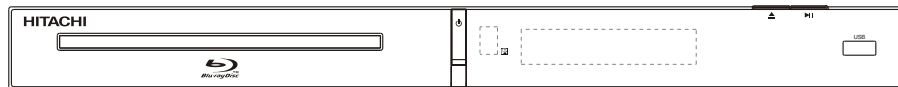


HITACHI



USER MANUAL

MODEL: HBD316



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

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SAFETY PRECAUTIONS



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.



The symbol for CLASS II (Double Insulation).

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: When replacing the unit's plug or power cord, the replacement must be the exactly the same; or one recommended by the manufacturer.

This Digital Video Disc player employs a laser system.

Use of controls, adjustments or the performance of procedures other than those specified may result in hazardous exposure to radiation. To prevent direct exposure to laser beam, do not try to open the enclosure.
DO NOT STARE INTO BEAM.

* Laser radiated label stick at the bottom of unit.



SAFETY PRECAUTIONS

This item 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.



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



Manufactured under license under U.S. Patent Nos: 5,956,674; 5,974,380; 6,487,535 & other U.S. and worldwide patents issued & pending. DTS, the Symbol, & DTS and the Symbol together are registered trademarks & DTS Digital Surround and the DTS logos are trademarks of DTS, Inc. Product includes software. ©DTS, Inc. All Rights Reserved.



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 should 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.



The Blu-ray Disc player HBD316 are Energy Star® qualified DVD. When in idle mode these DVD draw less than 1 Watt of current, to help lower your electric bills and protect the environment. Products that earn the ENERGY STAR prevent greenhouse gas emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy.

FCC statement:

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. 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.

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the 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.



IMPORTANT SAFETY INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS :

1. Read these instructions - All the safety and operating instructions should be read before this product is operated.
 2. Keep these instructions - The 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, and the like.
 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. Please keep the unit in a good ventilation environment.
 16. WARNING: Do not install this equipment in a confined space such as a book case or similar unit. The ventilation should not be impeded by covering the ventilation openings with items such as newspaper, table-cloths, curtains etc.
 17. 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.
 18. WARNING: The mains plug is used as disconnect device, the disconnect device shall remain readily operable.
 19. Double Insulation. This is CLASS II apparatus.
 20. The apparatus is mounted in accordance with the manufacturer's instructions.
 21. Battery pack or batteries installed shall not be exposed to excessive heat such as sunshine, fire or the like.
 22. As the device is with radio-frequency emission appliance, user needs to keep a minimum distance of 8 inches(20cm) from the device while using it.



NOTICE

NOTES ON HANDLING

- 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 used, 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 locate the unit in places 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

ELECTRICAL DISTURBANCE

When you place this unit near a TV, radio or VCR, the playback picture may become poor and the sound may be distorted. In this case, place the unit away from the TV, radio or VCR.

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 connecting to the wall outlet will ensure moisture condensation will seldom occur.

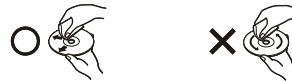
ON HANDLING DISCS

- 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.



PLAYABLE DISCS

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 (if available on the Blu-ray Disc).
- Pop-up menu display without interrupting playback (if available on the Blu-ray Disc).
- HDMI 1080p/fps output (Blu-ray Disc only) that provides smooth playback of video with a frame rate of 60 frames per second (TV must be connected with an HDMI cable and be compatible with an HDMI cable and be compatible with 1080p 60 frame).

The following types of discs can play in the REF player:

Disc type	Logo
Blu-ray Disc	
DVD-video Disc (DVD-ROM)	
Audio CDs (CDDA)	
DVD-RW	
DVD+RW	
MPEG4	MPEG4

Disc type	Logo
DVD-R	
DVD+R	
CD-R	
CD-RW	
WMA/JPEG/MKV/WMV9	

Notes:

Writeable DVD disks (DVD-R/RW, DVD+R/RW) must be finalized, VR-mode only.

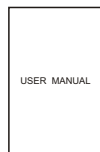
- Playback may not work for some types of discs, or when specific operations, such as angle change and aspect ratio adjustment, are being performed. Information about the discs is written in detail on the box. Please refer to this if necessary.
- Do not allow the disc to become dirty or scratched. Fingerprints, dirt, dust, scratches or deposits of cigarette smoke on the recording surface may make it impossible to use the disc for playback.
- CD-R/-RW, DVD-RW/-R recorded with UDF or ISO9660 format can be played back.
- 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



ACCESSORIES and PANEL

ACCESSORIES

- USER Manual x 1
- Remote control x 1

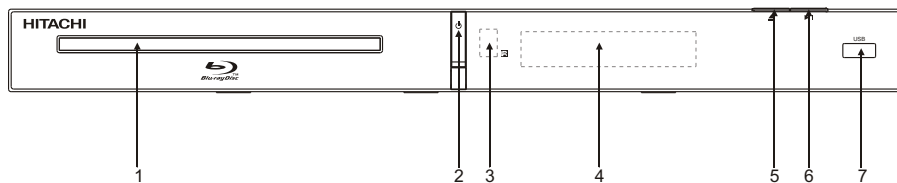


USER MANUAL



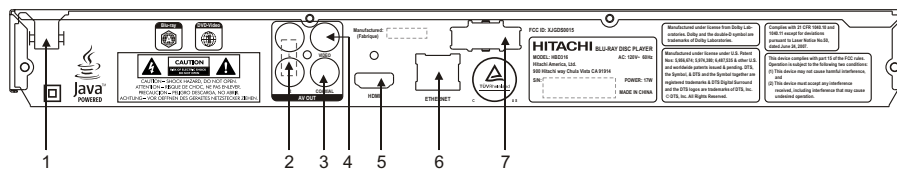
Remote control

FRONT PANEL

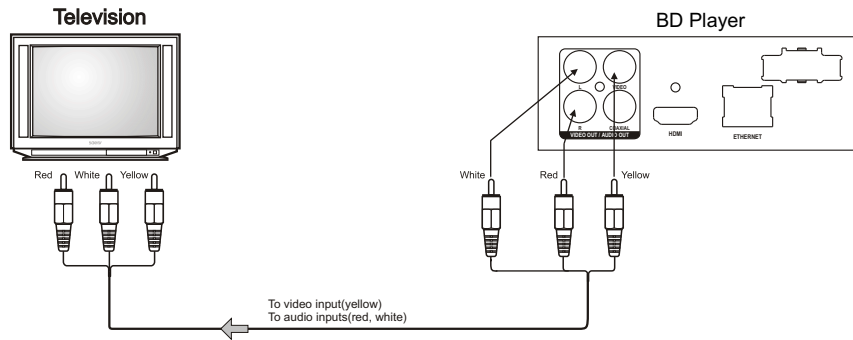
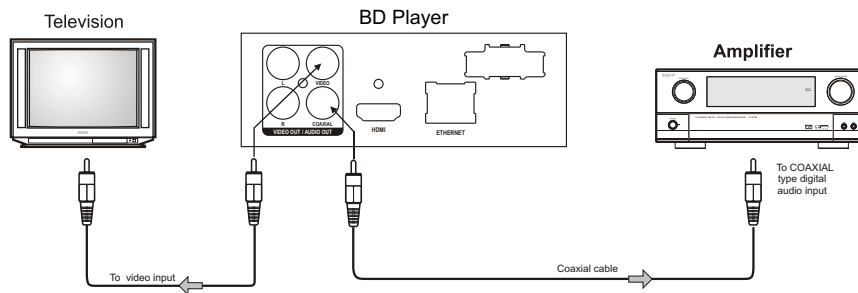
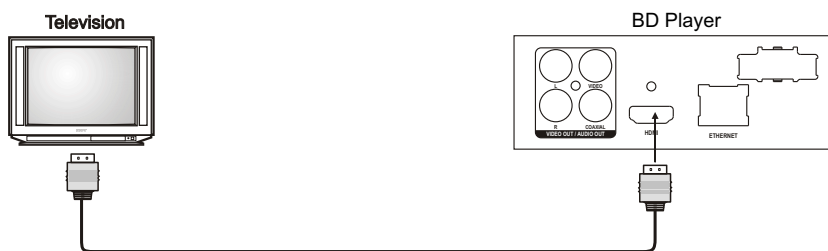


1. TRAY
2. STANDBY/ON
3. REMOTE CONTROL SENSOR
4. LED SCREEN
5. OPEN/CLOSE
6. PLAY/PAUSE
7. USB

REAR PANEL



1. POWER LINE INPUT
2. L/R AUDIO OUTPUT
3. COAXIAL OUTPUT
4. VIDEO OUTPUT
5. HDMI OUTPUT
6. ETHERNET INTERFACE
7. WIFI ANTENNA

BASIC CONNECTION**● Connecting to a TV with Audio/Video cable****● Connecting to an amplifier equipped with a digital audio input and TV****● Connecting to a device with HDMI terminal**



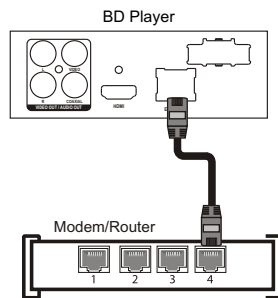
BASIC CONNECTION

● Connecting to your Home Network

This player can be connected to a local area network (LAN) via the LAN port on the rear panel or the internal wireless module.

Wired network

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



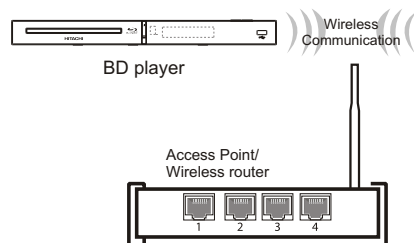
Using a wired network provides the best performance, because the attached devices connect directly to the network and are not subject to radio frequency interference.

Note:

- When plugging or unplugging the LAN cable, hold the plug portion of the cable. When unplugging, do not pull on the LAN cable but unplug while pressing down on the lock.
- Do not connect a modular phone cable to the LAN port.
- Since there are various connection configurations, please follow the specifications of your telecommunication carrier or internet service provider.

Wireless network

Another connection option is to use an Access Point or an wireless router. In the example configuration for wireless connection below, this player would be able to access content from either of the PC.

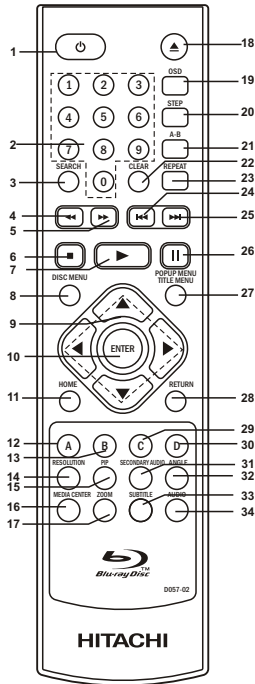


The network configuration and connection method may vary depending on the equipment in use and the network environment. This player is equipped with an IEEE 802.11n wireless module, which also supports the 802.11b/g standards. For the best wireless performance, we recommend using a IEEE 802.11n certified Wi-Fi network (access point or wireless router).



REMOTE CONTROL

REMOTE CONTROL



Function

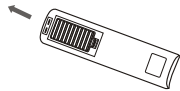
1. STANDBY
2. DIGITS BUTTONS
3. SEARCH
4. FAST REVERSE
5. FAST FORWARD
6. STOP
7. PLAY
8. DISC MENU
9. UP/DOWN/LEFT/RIGHT
10. ENTER
11. HOME
12. COLOR Button:RED(A)
13. COLOR Button:GREEN(B)
14. RESOLUTION
15. Secondary Video (Picture-in-picture)
16. MEDIA CENTER
17. ZOOM

Function

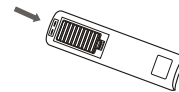
18. OPEN/CLOSE DISC TRAY
19. On Screen Display (OSD)
20. STEP
21. A-B REPEAT
22. CLEAR
23. REPEAT
24. PREVIOUS
25. NEXT
26. PAUSE
27. POPUP MENU/TITLE MENU
28. RETURN
29. COLOR Button:YELLOW(C)
30. COLOR Button:BLUE(D)
31. SECONDARY AUDIO
32. ANGLE
33. SUBTITLE
34. AUDIO

Loading Batteries

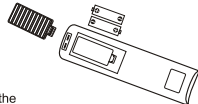
1. Open the cover.



3. Close the cover.



2. Insert two AAA batteries.



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

Notes on batteries

- Do not insert batteries into the remote control in the wrong direction.
- The battery(battery or batteries or battery pack) 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 batteries with new ones.



BASIC PLAYBACK

Basic playback

1. Press STANDBY/ON button on the front panel or the remote, your player turns on.
2. Turn on the TV, then select the input setting on the TV that matches the connection method you used to connect your player.
3. Press OPEN/CLOSE \blacktriangle to open the disc tray.
4. Place a disc on the disc tray with the label facing up, then press OPEN/CLOSE \blacktriangle to close the disc tray. It may 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, press CURSOR button to select , then press ENTER.
7. To eject the disc, press OPEN/CLOSE \blacktriangle .

Fast forward and Fast reverse

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

Previous and Next

During normal playing, press PREV $\blacktriangleleft\blacktriangleleft$ once can back to the start of the chapter/track; Press PREV $\blacktriangleleft\blacktriangleleft$ twice can back to the previous of the chapter/track playback.

Each press of NEXT $\blacktriangleright\blacktriangleright$ key during playing will jump forward to next chapter/track playback.

DIGITS BUTTONS

In playback mode, press SEARCH and ENTER button, then press the number buttons to enter a title, chapter, track, or time.

In menu mode, press to enter numbers.

Stop playback

1. Press STOP \blacksquare button to go to stop mode, the TV screen will show the start logo. As some disc the player can recall the location where stopped, such as BD.
 2. Press PLAY to playback to resume playback from the location where playback is stopped or from the beginning of the disc.
 3. Press STOP twice to stop completely.
- 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 PAUSE \parallel to pause playback . The sound will be muted .
2. Press PAUSE \parallel or PLAY to resume normal playback.

Step forward

1. When playing DVD/MPEG4/WMV9/MKV/BD Disc, press Step forward to enter Single-step state.
2. Press PLAY key to resume normal play.

UP/DOWN/LEFT/RIGHT

When a menu is open, press to highlight an item, then press ENTER.

When viewing a picture(JPEG file),press to rotate the picture.

NOTES:

1. " \odot " may appear on the TV screen during operation. A " \odot " means that the operation is not permitted by the unit or the disc.



ADVANCED PLAYBACK

IMPORTANT NOTE:

THE FOLLOWING FUNCTIONS ARE APPLICABLE ONLY TO BLU-RAY DISCS. IF OTHER DISC FORMATS ARE PLAYED, SCREEN DISPLAY AND OPERATION WILL BE DIFFERENT.

OSD

Press this button and the screen will display some information about disc, such as : " Type of Disc ", "current chapter " , " Total of chapters " , "Current playd time in title" , " Audio " , " Subtitle " and so on.

A-B

Press " A-B " to begin start-point after two seconds, press again to set an end point and complete setting. The selected section A-B will be repeated. The third press will cancel this function.

Note: this key is invalid to Blu-ray Disc Java.

REPEAT

Press one or more times to select a repeat mode.

Follow this operation :

- Repeat Chapter
- Repeat Title
- Repeat All
- Repeat Off

Press this button repeatedly to display circular the above operation.

Note:

1. This key is not effect for BD-JAVA disc.
2. Some of the BD discs can not support "Repeat All" mode.

SEARCH

During playback, press this button and ENTER button, you can use CURSOR to select a search mode, then press digits button. ENTER key on the remote to confirm your selection, could choose the point that you want to play. Press SEARCH button will cancel search.

Note: For some discs, the TITLE could not be chosen in search mode.

CLEAR

This button can cancel the mistake information you input.

DISC MENU

During DVD/Blu-ray Disc playback, press this button will return a disc menu, then press ENTER button to play.

POPUP MENU/TITLE MENU

During DVD/Blu-ray Disc playback, press POPUP MENU/TITLE MENU.

To open the pop-up menu opens.

1. Press LEFT/RIGHT/UP/DOWN buttons to select an option, then press ENTER.
2. Press RETURN to close the menu.

HOME

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

Note: The HOME menu will display on the screen automatically, under No Disc or Stop situations.

RETURN

Within the Home menu, Press this button to return to the previous menu.

RESOLUTION

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

Note:

Setting a resolution your TV cannot support could result in an unstable picture or a loss of picture. Check your TV manual for guidance.

This function key will be effective only on HOME mune interface.

ANGLE

During playback, press this button to change the angleof the picture. This screen will display " Angle: X/X " th e first "X" indicates the current number of angle; the second "X" indicates total number of angle.

Note: the angle function will not work if your disc does not contain the multiple angle features.

ZOOM

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

Note: this key is invalid to Blu-ray Disc Java.



SPECIAL FUNCTION PLAYBACK

SUBTITLE

Press this button continuously and the screen will display "X/X XXX", and " Off ".
the first "X" indicates the current number of this subtitle language; the second "X" indicates total number of subtitle language; "XXX" indicates the subtitle language of country.
(The number of subtitle language depends on disc).

AUDIO CHANNEL CHOOSE

Press this button on remote control to change the mode of audio. Such as "1/2 English Dolby Digital stereo" .
"1" indicates the current number of audio;
"2" indicates total number of audio;
"English" indicates the language of country.
"Dolby Digital" indicates the description of the current audio.
"Stereo" indicates the current audio.

SPECIAL FEATURES OF BLU-RAY DISCS

INTRODUCTION

The massive storage capacity of a Blu-Ray (BD) disc allows a far higher standard of picture and audio quality and a wealth of special effects and enhanced features.

BLU-RAY AND JAVA.

This player features Java support so enabling you to get the most out of the latest Blu-Ray discs.

When a BD disc loads always explore the title menu to enjoy these extra features.

BLU-RAY AND HDMI

HDMI is the only domestic medium capable of transmitting the huge volumes of data required by the very high picture resolutions and advanced digital audio codecs that make Blu-Ray such an exciting medium.

PLAYING A BLU-RAY DISC

Blu-Ray discs play very much like standard DVDs but with a very much higher level of interactivity. All the standard features of DVD play operate exactly the same but there are some differences.

PLAY RESUME: This feature is not available on BD-Java discs.

A-B repeat is disabled on some BD discs.

ENHANCED FEATURES

SECONDARY VIDEO (PICTURE IN PICTURE)

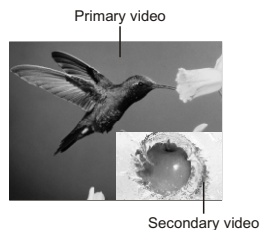
During Play:

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

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

"X" indicates the current number of video;

"Y" indicates total number of video.



SECONDARY AUDIO

To turn audio on/off with the secondary video,

Press the PIP AUDIO button.

The secondary audio is played.

Press the key to turn the feature "X/Y English DTS-HD LBR Stereo" and OFF.

"X" indicates the current number of audio;

"Y" indicates total number of audio;

"English" indicates the language of country;

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

"Stereo" indicates the current audio.

P-I-P functionality is also known as BonusView.

Note: Only the primary video is played during search or frame-by-frame play.

P-I-P functionality is also known as Bonus View.

COLOUR BUTTONS

The **RED, GREEN, YELLOW** and **BLUE** buttons are used with interactive menus when operating a BD-Video disc that includes Java™ applications (BD-J). For more information about operating this kind of disc, please read the instructions that came with the disc. (The option is used with BD-Live disc)



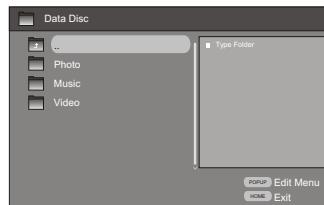
SPECIAL FUNCTION PLAYBACK

MY MEDIA

INTRODUCTION

MY MEDIA allows you to browse and play multi-media files of data disc and USB device.

1. Insert a data disc.
2. After loading, within the HOME menu, you can use LEFT and RIGHT buttons on the remote control to select the MY MEDIA, and then press the ENTER button to open the MY MEDIA menu shown as below:



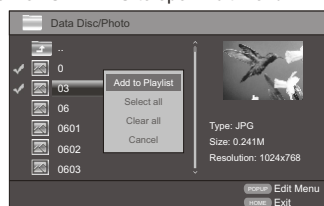
3. Use UP/DOWN keys to highlight Data Disc then press ENTER to confirm.

NOTE: The operations for USB device are similar to the steps above.

- The file name can be up to 255 characters.
- The directory length can be up to 1152 characters.
- When playing video discs, you must stop playback, then switch to USB device.

Using the Edit menu

The Edit menu allows you to do following operations towards folder or file: Add to Playlist, Select all, Clear all, and Cancel. Press UP/DOWN keys to select the files need to be added, press RIGHT key to confirm, press POPUP MENU to open Edit menu.



NOTE: In the first and the second layers, it is not effect to open Edit menu by using TITLE key.
Add to Playlist: Add the folder/file into Playlist.
Select All: Select all folder/file of current page. All files or folders of current folder directory are marked with the check mark.
Clear All: Unselect all selected folder/file.
Cancel: Cancel and exit the Edit menu.

NOTE: The maximum of file number for Select All option is 100. Thus if there are more than 100 files, only 100 files can be selected by choosing Select All.

Using the Playlist

You can custom your playlist by adding to Playlist option from Edit menu.

1. Select the Playlist folder from the Browser menu.
2. There are 3 folders under Playlist: Photo, Music, and Video. Please select the folder of your desired file type.
3. Select your desired file or all files to playback.

NOTE: The Playlist will be cleared after power on. The maximum file number is 100 for each sub-folder (Photo, Music, and Video).

Viewing a picture file

Supported file type: JPEG.

In MY MEDIA, you can browse and view your desired JPEG file freely.

1. Use UP/DOWN keys to highlight the JPEG file you want to view from the File Browser, then press to ENTER confirm selecting.

Note: When highlight one JPEG file, its thumbnail is displayed on the bottom right of the screen. Thus, you can preview the picture firstly before selecting. And also the file type, size, and resolution are displayed on the preview area.

2. Now you can start viewing the pictures by the way of slide show.

The followings is the instructions for the key usage for viewing the JPEG file:

UP/DOWN/LEFT/RIGHT: Rotate the picture. Use these 4 keys to select rotate direction.
PAUSE: Press PAUSE to pause JPEG file playback, then press PLAY to resume play.
STOP: Press STOP to stop (fully stop) the picture playback and return to File Browser.
REPEAT Track/ALL: Playback one JPEG file or all files repeatedly. Press this key repeatedly to switch repeat mode: Repeat Track-Repeat All-Repeat Off.
FF/FR: Change the picture playback speed: Fast (1 second), Middle (2 seconds), Slow (3 seconds).
DISPLAY: Open the Display menu to view picture playback relevant information.



SPECIAL FUNCTION PLAYBACK

Playback a music file

Supported file type: wma

In Media Center, you can browse and enjoy your desired music.

1. Use UP/DOWN keys to highlight the wma file you want to view from the File Browser, then press ENTER or PLAY to start playback.
2. Now you can start enjoy the music. In File browser, the music file type, total time, title, artist, album, and the genre are displayed on the preview area.

The followings is the instructions for the key usage for listening to the music files:

PAUSE: Press PAUSE to pause wma file playback, then press PLAY to resume play.

STOP: Press STOP to stop resume, and press again to full stop and return to File Browser.

REPEAT Track/ALL: Playback one track or all files repeatedly. During playback, press this key repeatedly to switch repeat mode: Repeat Track-Repeat All-Repeat Off.

REPEAT A-B: Playback selected segment (A-B) repeatedly.

Playback a video file

Supported file type: MPEG4, WMV9, MKV.

In Media Center, you can browse and watch your desired video file.

1. Use UP/DOWN keys to highlight the video file you want to view from the File Browser, then press ENTER or PLAY to start playback.
2. Now you can start enjoy the music. In File browser, the video file type is displayed on the preview area.

The followings is the instructions for the key usage for watching the video files:

PAUSE: Press PAUSE to pause video file playback, then press PAUSE or PLAY to resume play.

STOP: Press STOP to stop resume, and press again to full stop and return to File Browser.

REPEAT Track/ALL: Playback one track or all files repeatedly. During playback, press this key repeatedly to switch repeat mode: Repeat Track-Repeat ALL-Repeat Off.

REPEAT A-B: Playback selected segment (A-B) repeatedly.

DISPLAY: Open the Display menu to view Video file playback relevant information.

Using BD-Live

Some (but not all) BD discs contain additional features that are made available to players that are connected to the internet, and have additional memory added.

These additional features may include things like:

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

In order to access BD-Live functions, the player must be properly configured for BD-Live connection, and it must be equipped with additional memory.

Note:

- 1.The USB memory with a minimum memory of 1GB.
- 2.The function of downloading is related to the disc.

Upgrade

There are three method to update the player: Disc, USB Storage and Network.

- 1.Disc/USB Storage Upgrade:

Put the upgrading software USB/disc into player. When the new software is identified by the player, there will be notes on the screen, please operate according to the notes.

- 2.Network upgrading:

After connecting to the network successfully, then enter into HOME menu. HOME-SETTINGS-System-Firmware Update-Network. When the new software is identified by the player, there will be notes on the screen, please operate according to the notes.

3. Upgrade is in progress, which may take a while, please wait...

4. Complete the upgrade. Press ENTER to reboot.

Note: If the package did not pass the verification (such as the package is not complete), error prompt is displayed on the screen. Please make sure the firmware version is not an old version.



SYSTEM SETUP

The HOME menu will display on the screen automatically, under No Disc or Stop situations.

1. Within the HOME menu, you can use LEFT and RIGHT buttons on the remote control to move the cursor, and then press the ENTER button to make your selection.

Press RETURN can return the previous menu.

2. Press HOME button to display the HOME menu.

QUICK SETUP

Within the HOME menu, you can use LEFT and RIGHT buttons on the remote control to select the QUICK SETUP, and then press the ENTER button to open the QUICK SETUP menu.

An initial setup wizard helps to quick set the unit, such as the OSD language, resolution, and so on.

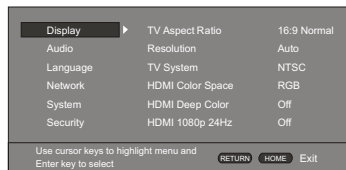
Note:

The first time you turn on your player, the Quick Setup wizard opens automatically. You can use the wizard to select initial settings for your player, such as the menu language and video resolution.

SETTINGS

Within the HOME menu, you can use LEFT and RIGHT buttons on the remote control to select the SETTINGS, and then press the ENTER button to open the Settings menu.

1. Display



1.1 TV Aspect Ratio

Select the Aspect Ratio: 16:9 Normal, 16:9 Full, 4:3 Pan&Scan, 4:3 Letterbox.

16:9 Normal: For a disc with the aspect ratio of 4:3, the output video is resized vertically to match what will be seen on the display.

16:9 Full: For a disc with the aspect ratio of 4:3, the output video is stretched into 16:9 full screen.

4:3 Pan&Scan: Display a wide picture on the entire screen and cuts off the redundant portions. Select when a standard 4:3 TV is connected. The scanning line is complete, but part of the image is clipped.

4:3 Letterbox: Display a wide picture with two black borders on the top and bottom of 4:3 screen. Select when a standard 4:3 TV is connected. The screen is complete, but due to the lost of scanning line, the resolution is reduced.

1.2 Resolution

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

Auto: Select the most suitable resolution according to the input video.

Note:

- Setting the player for an output resolution not supported by your TV will result in unpredictable results.
- Only the HDMI output of the player is capable of supporting 1080p video output at any frame rate.
- The CVBS will have the image output only in 480i or 480p, if the CVBS has no video output then can be used RESOLUTION key for switch, till appear the normal video.

1.3. TV System

Select TV system: NTSC and PAL .

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

PAL: Select this option when connected with PAL-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 and Off.

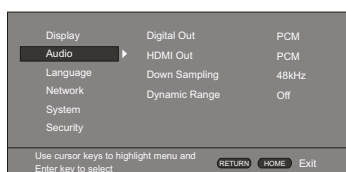
Note: HDMI 1.3 supports 10-bit, 12-bit and 16-bit (RGB or YCbCr) color depths while 8-bit depths in previous versions. This expands the colors displayed from millions to billions, which is much more vivid than the previous.

1.6 HDMI 1080p 24Hz

Select HDMI 1080p 24Hz: Auto and Off.



2. Audio



2.1 Digital Out

Select the output mode of DIGITAL OUT jack. Include PCM, Bitstream and Bitstream Re-encode.

PCM: Outputs the signal as processed audio ready for any receiver. Use this 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 movie soundtrack format.

Bitstream Re-encode: Combines all audio signals and 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. Include PCM, Bitstream and Bitstream Re-encode.

PCM: Outputs the signal as processed audio ready for any receiver. Use this when your receiver cannot decode the movie soundtrack on the disc.

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

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.

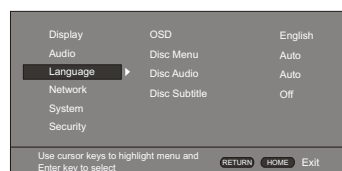
2.4 Dynamic Range

Select the Dynamic Range Control mode. Dynamic Range is the range between the loudest sounds and quietest ones, which makes it available to listen to a movie at a lower volume without losing sound clarity.

Off: Non-dynamic range compress.

On: Dynamic range compress.

3. Language



3.1 OSD

Select the OSD (On-Screen Display) language.

3.2 Disc Menu

Select the **disc** menu language.

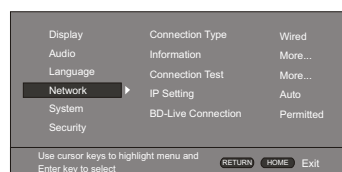
3.3 Disc Audio

Set the **disc** audio language.

3.4 Disc Subtitle

Set the **disc** subtitle language.

4. Network



4.1 Connection Type

There are two options: Wired or Wireless.

Wired: connect a network cable to the Ethernet jack on the back of your player and into a wired router using a commercially available LAN or Ethernet cable.

Wireless: there are three types of wireless network connections:

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



SYSTEM SETUP

4.2 Information

To view the Network information: Address Type, IP Address, subnet Mask and so on.

4.3 Connection Test

The Connection Test menu item allows the user to test the connectivity of their player's configuration by pinging an IP addresses.

4.4 IP setting

There are two options: Auto and Manual.

Auto: allocate the IP address automatically by system.

Manual : set an IP address manually as below:

- The Network Information page will display, and the highlight is in IP Address row.
- Use UP/DOWN/LEFT/RIGHT buttons to move the highlight among the columns, use digits 0-9 buttons to enter the IP Address value, use CLEAR button to clear the entries.
- Press ENTER to confirm the IP address you set manually.

4.5 BD-Live connection

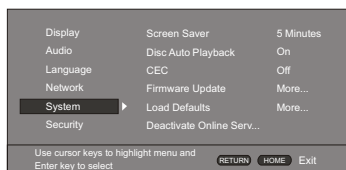
Select BD-Live connection: Permitted, Partial Permitted or Prohibited.

Permitted: Always allows Internet access.

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

Prohibited: Never allows Internet access.

5. System



5.1 Screen Saver

Sets the time of entering screen saver status.

5.2 Disc Auto Playback

Open/close disc auto playback: On/Off

If set to On, the disc will auto playback after loading.

5.3 CEC

Open/Close CEC (Consumer Electronics Control) , which allows all the A/V devices supportable to HDMI work together as a total system.

When CEC is turned on on your player, CEC is turned on on your TV, and you use your TV's remote control to turn off your TV, your player switches to standby mode. After putting disc into player, use your player's remote control to turn on your player. When player is playing the disc, your TV also turns on.

5.4 Firmware Update

Download and install product updates for your player.

NOTE:

- The system will auto upgrade after loading the disc contains the upgrade file package.
- For more detailed information of System Upgrade, please reference Upgrade.
- After system upgrade, you will find the version has been changed of the system information menu.

5.5 Load Default

Reset all settings of Blu-ray Player to initial default state.

Note: This **DOES** reset the Parental Control Password.

5.6 Deactivate Online Service

Reset the website setting.

5.7 System Information

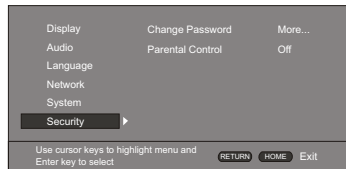
To view the system related information: Software version, and so on.

5.8 BD-Live Storage

There are two option: Information and Erase BD-Live data.



6. Security

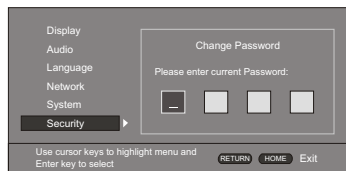


6.1 Change Password

Change Password: You can change the password, please type 4 numerals as new password.

Note: (Initial password : 0000)

Be sure remember new password. When set parental control function you must input new password .



6.2 Parental Control

Allow user to select playback contents especially for parents to keep their children from unhealthy program.

Choose playing contents age level among following options: Off, KID SAFE, G, PG, PG-13, PGR, R, NC-17, and ADULT.

Off: close the parental control.

KID SAFE: Safe for kids

G: All children and general guidance

PG: Parental guidance

PG-13: Parental guidance for children under 13

PGR: Parental Guidance Recommended.

R: Restricted viewing

NC-17: No one 17 and under allowed

ADULT: Adult only

Note:

1. After you set the parental control, When you playback a disc with level higher than current parental control level, or you want to change the parental control level, a dialog box will pop up to ask you to enter the 4-digit password.

2. When playing BD disc which contain the parental control level, the parental control must be set to Off.



TROUBLE SHOOTING

Problem	Solution
No power	Plug another power cord or change a power outlet.
No picture	Make sure the video cable is connected securely.
	The cable may be damaged. Change another one.
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 sound distortion.	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.
Cannot connect network	please check if the disc is legal copy.
	Confirm whether the network connection is ok.
	You must insert USB memory with a minimum memory of 1GB.
After network connection, cannot download file	Whether the capacity of Storage is full. if it is full, please Erase BD-Live data in the Home menu and reset the unit.
	Confirm whether the network connection is ok
	Change USB device and then test it.



SPECIFICATIONS

System and Outputs

VF Signal system	NTSC
Video output	Electric level output: 1.0 Vp-p Resistance: 75Ω 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
Audio output (digital audio)	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 format: Auto/1080p/1080i/720p/480p/480i

General

Power	110V-240V ~ 50/60Hz
Power consumption	17W
Product Dimensions	L: 360mm W:210mm H: 33mm
Weight	** kg
Operating temperature	5°C to 35°C (41 F° to 95°F)
Operating humidity	10% to 80%

Note: We reserve the right to modify the design without advice!

HITACHI