mem::rex

Wi-Fi Blu-ray Player

User Guide

Please read these instructions completely, before operating this product.

Guide d'utilisateur

Avant d'utiliser cet appareil, veuillez lire attentivement toutes les directives contenues dans le présent guide.

Guía del usuario

Por favor lea toda las instruciones antes, de tratar de usar este producto.





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IMPORTANT SAFETY INSTRUCTIONS



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (OR BACK). NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. This Caution Marking is located at the rear enclosure of the unit.



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)

CAUTION:

THIS DIGITAL VIDEO DISC PLAYER EMPLOYS A LASER SYSTEM.

TO ENSURE PROPER USE OF THIS PRODUCT, PLEASE READ THIS OWNER'S MANUAL CAREFULLY AND RETAIN FOR FUTURE REFERENCE. SHOULD THE UNIT REQUIRE MAINTENANCE, CONTACT AN AUTHORIZED SERVICE LOCATION-SEE SERVICE PROCEDURE.

USE OF CONTROLS, ADJUSTMENTS OR THE PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

TO PREVENT DIRECT EXPOSURE TO LASER BEAM, DO NOT TRY TO OPEN THE ENCLOSURE. VISIBLE LASER RADIATION MAY BE PRESENT WHEN THE ENCLOSURE IS OPENED. DO NOT STARE INTO BEAM.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

SURGE PROTECTORS:

It is recommended to use a surge protector for AC connection. Lightning and power surges ARE NOT covered under warranty for this product.

LASER WARNING:

This unit employs a laser. Only qualified service personnel should attempt to service this device due to possible eye injury.

FCC NOTICE:

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.

FCC CAUTION:

To assure continued compliance, follow the attached installation instructions and use only shielded cables when connecting to other devices. Also, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

ATTENTION:

POUR ÉVITER LES CHOC ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISES ET POUSSER JUSQU'AU FOND.

Manufactured under license from Dolby Laboratories.

Dolby and the double-D symbol are registered trademarks of Dolby Laboratories.

Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535; 7,212,872; 7,333,929; 7,392,195; 7,272,567 & other U.S. and worldwide patents issued and pending. DTS and the Symbol are registered trademarks, and DTS-HD, DTS-HD Advanced Digital Out, and the DTS logos are trademarks of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved.

This product incorporates copyright protection technology that is protected by U.S patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Rovi Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Rovi Corporation. Reverse engineering and disassembly are prohibited.

IMPORTANT SAFETY INSTRUCTIONS (CONTINUED)

Read these operating instructions carefully before using the unit. Follow all the safety instructions listed below. Keep these operating instructions handy for future reference.

- 1. Read these Instructions.
- 2. Keep these Instructions.
- 3. Heed all Warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with a dry cloth.
- 7. Do not block any of the ventilation openings. Install in accordance with the manufacturer'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-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. When 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 plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service 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, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15. Do not expose this product to dripping or splashing. Do not place objects filled with liquids, such as vases, on this product.
- 16. Main plug is used as disconnect device and it should remain readily operable during intended use. In order to disconnect the apparatus from the mains completely, the mains plug should be disconnected from the mains socket outlet completely.
- 17. CAUTION: To reduce the risk of fire or explosion, do not expose batteries to excessive heat such as sunshine, fire or other heat sources.

PRECAUTIONS

NOTES ON HANDLING:

- When shipping the player, always use the original shipping carton and packing materials. For maximum protection, repack the unit as it was originally packed at the factory.
- Do not use volatile liquids, such as insect spray, near the player. Do not leave rubber or plastic products in contact with the player for a long time. They will leave marks on the finish.
- The top and rear panels of the player may become warm after a long period of use. This is normal and not a malfunction.
- When the player is not in use, be sure to remove the disc and turn off the power.
- If you do not use the player for a long period, the unit may not function properly in the future. Turn on and use the player occasionally.

LOCATING THE PLAYER:

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

NOTES ON CLEANING:

Use a soft, dry cloth for cleaning.

- For stubborn dirt, soak the cloth in a weak detergent solution, wring well and wipe. Use a dry cloth to wipe it dry. Do not use any type of solvent, such as thinner or benzene, as it may damage the surface of the player.
- If you use a chemical-saturated cloth to clean the unit, follow that product's instructions.

Warning: Cleaning and adjustment of lenses and/or other components of playback mechanism should be performed by a qualified service technician.

TO OBTAIN A CLEAR PICTURE:

The player is a high technology, precision device. If the optical pick-up lens and disc drive parts are dirty or worn down, the picture quality becomes poor. To obtain a clear picture, we recommend regular inspection and maintenance (cleaning or parts replacement) every 1,000 hours of use depending on the operating environment. For details, contact your nearest dealer.

NOTES ON MOISTURE CONDENSATION:

Moisture condensation damages the player. Please read the following carefully.

 Moisture condensation occurs, for example, when you pour a cold drink into a glass on a warm day. Drops of water form on the outside of the glass. In the same way, moisture may condense on the optical pick-up lens inside this unit, one of the most crucial internal parts of the player.

Moisture condensation occurs during the following cases:

- When you bring the player directly from a cold place to a warm place.
- When you use the player in a room where you just turned on the heater, or a place where the cold wind from the air conditioner directly hits the unit.
- In summer, when you use the player in a hot and humid place just after you moved the unit from an air conditioned room.
- When you use the player in a humid place.

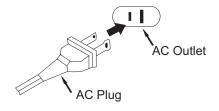
Do not use the player when moisture condensation may occur.

 If you use the player in such a situation, it may damage discs and internal parts. Remove the disc, connect the power cord of the player to the wall outlet, turn on the player and leave it "ON" for two or three hours. After two or three hours, the player will have warmed up and evaporated any moisture. Keep the player connected to the wall outlet and moisture condensation will seldom occur.

POWER SOURCE

Insert the AC plug (with the 2 blades) into a conveniently located AC outlet having 120V, 60Hz.

NOTE: The AC plug supplied with the unit is polarized to help minimize the possibility of electric shock. If the AC plug does not fit into a nonpolarized AC outlet, do not file or cut the wide blade. It is the user's responsibility to have an electrician replace the obsolete outlet.



FEATURES

This unit has many features, some are outlined below. Please read the owner's manual to take full advantage of all the features this unit has to offer.

Introduction

Blu-ray Discs can store 25 GB (single layer) or 50 GB (dual layer) on a single-sided disc – about 5 to 10 times the capacity of DVD. As a result, Blu-ray Discs support the highest quality HD video available in the industry (up to 1920 x 1080 at 40 Mbit/sec). Large capacity means no compromise on video quality. Furthermore, a Blu-ray Disc has the same familiar size and look as DVD, allowing for compatibility with existing discs.

Compatibility

Users can play home-recorded discs (except BDAV discs) on this Blu-ray Disc Player; there are no playback compatibility issues as with rewritable DVD formats. The Video Distribution format was widely expanded to offer content producers a full range of additional features unavailable in the home recording format.

Video Highlights

The BD-ROM format for movie distribution supports three highly advanced video codecs, including AVC, VC-1 and MPEG-2. All consumer video resolutions are available: 480i/576i; 480p/576p; 720p; 1080i; 1080p and 1080p (24p&60p).

Audio Highlights

The BD-ROM format for movie distribution supports various advanced audio codecs so an author can choose the most suitable for a particular application. The high capacity and data rate of Blu-ray Discs allows for extreme high quality audio in up to 8 channels to accompany High Definition video. Final audio specifications include DTS (DTS 5.1, DTS-HD 7.1), Dolby Digital and LPCM (up to 96/24).

High-Definition Playback

To view high-definition contents in BD discs, an HDTV (High Definition Television) is required. Some discs may require using the player's HDMI OUT to view high-definition content. The ability to view high-definition content on BD discs may be limited depending on the resolution of your TV.

The BD-ROM format supports Java for interactive functions. "BD-J" offers content providers almost unlimited functionality when creating interactive BD-ROM titles. Java and all Java-based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries.

HDMV Mode

"HDMV" mode was designed to offer exciting new features, while keeping the authoring process as simple as possible. It streamlines the production of Blu-ray Discs as well as DVD-Video titles, as the production process incorporates many identical phases. It offers improved navigational and menu features, improved graphics and animation, improved subtitling support and new features like browseable slideshows.

Two individual, full HD resolution (1920x1080) graphics planes are available, on top of the HD video plane. One plane is assigned to video-related, frame accurate graphics (like subtitles), and the other plane is assigned to interactive graphical elements, such as buttons or menus. For both planes, various wipes, fades and scroll effects are available, for example to present a menu.

BD-Live

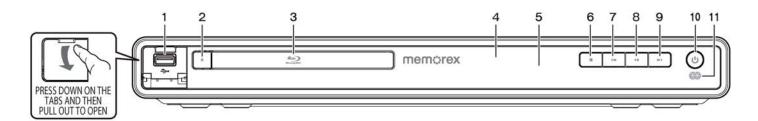
Some BD-ROM discs labelled "BD-Live" contain interactive information, trivia games, etc. The player must be connected to the internet as described later in this manual.

"BD-J" Mode

"BD-J" mode was designed to offer the content provider almost unlimited functionality when creating interactive titles. It is based on Java 2 Micro Edition, so programmers will quickly be familiar with the programming environment for BD-J. Every Blu-ray Disc player will be equipped with a Java interpreter, so that it is capable of running discs authored in BD-J mode.

LOCATION OF CONTROLS

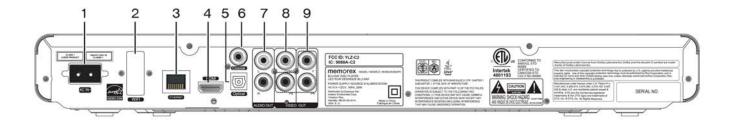
FRONT



- 1. USB Jack (Inside Compartment)
- 2. Open/Close Button
- 3. Disc Compartment
- 4. Display
- 5. Remote Sensor
- 6. Stop (■) Button

- 7. Skip (₩) Button
- 8. Play/Pause (►II) Button
- 9. Skip (M) Button
- 10. Power Button/Indicator
- 11. Network Indicator

REAR

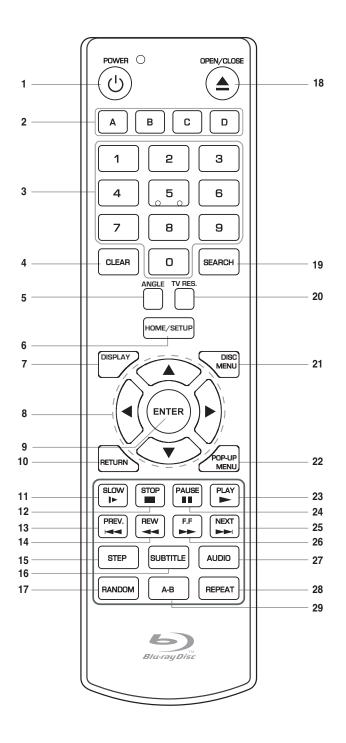


- 1. AC Power Cord Jack
- 2. Wi-Fi
- 3. Ethernet Jack
- 4. HDMI Jack
- 5. Optical Output Jack

- 6. Coaxial Output Jack
- 7. Stereo Audio Left/Right Output Jacks
- 8 CVBS (Composite Video) Output Jack
- 9. Component Video (Y, PB, PR) Output Jacks

LOCATION OF CONTROLS (CONTINUED)

REMOTE



- 1. POWER Button
- 2. Color Buttons (Red, Green, Yellow, Blue)
- 3. Number (0-9) Buttons
- 4. CLEAR Button
- 5. ANGLE Button
- 6. HOME/SETUP Button
- 7. DISPLAY Button
- 8. Navigation (◀,▶,▼,▲) Buttons
- 9. ENTER Button
- 10. RETURN Button
- 11. SLOW Button
- 12. STOP Button
- 13. PREV (Skip) ₩ Button
- 14. REW (Search/Reverse) ◀◀ Button
- 15. STEP Button
- 16. SUBTITLE Button
- 17. RANDOM Button
- 18. OPEN/CLOSE Button
- 19. SEARCH Button
- 20. TV RES (Resolution) Button
- 21. DISC MENU Button
- 22. POP-UP MENU Button
- 23. PLAY ▶ Button
- 24. PAUSE II Button
- 25. NEXT (Skip) ₩ Button
- 26. FF (Search/Forward) ▶▶ Button
- 27. AUDIO Button
- 28. REPEAT Button
- 29. Repeat A-B Button

REMOTE CONTROL PART NO. 0118020235*
BATTERY COVER PART NO. 0118020235BR*
A/V RCA CABLE PART NO. 0117030001*

^{*}Consumer Replaceable Part (See page 46 to order.)

REMOTE CONTROL

BATTERY INSTALLATION



- 1. Remove the Battery Compartment cover by pushing in on the tab and then lifting the cover off.
- 2. Install two (2) "AAA" batteries, paying attention to the polarity diagram in the battery compartment.
- 3. Replace the Battery Compartment cover.

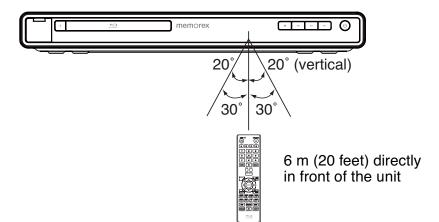
BATTERY PRECAUTIONS

Follow these precautions when using batteries in this device:

- 1. Caution Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
- 2. Use only the size and type of batteries specified.
- 3. Be sure to follow the correct polarity when installing the batteries as indicated in the Battery Compartment. A reversed battery may cause damage to the device.
- 4. Do not mix different types of batteries together (e.g. Alkaline, Rechargeable and Carbon-zinc) or old batteries with fresh ones.
- 5. If the device is not to be used for a long period of time, remove the batteries to prevent damage or injury from possible battery leakage.
- 6. Do not try to recharge a battery not intended to be recharged; it can overheat and rupture. (Follow battery manufacturer's directions.)
- 7. Remove batteries promptly if consumed.
- 8. Clean the battery contacts and also those of the device prior to battery installation.

EFFECTIVE DISTANCE OF THE REMOTE CONTROL TRANSMITTER

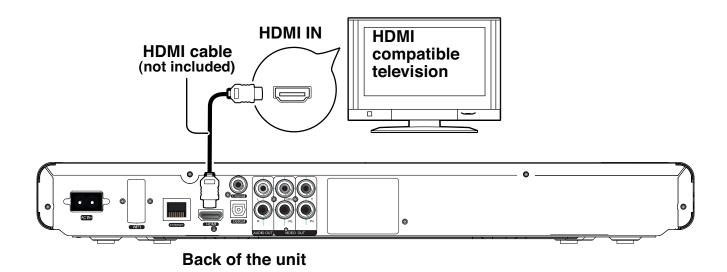
Remote control signal sensor



- When there is an obstacle between the Player and the transmitter, the transmitter may not operate.
- When direct sunlight, an incandescent lamp, fluorescent lamp or any other strong light shines on the REMOTE SENSOR of the Player, the remote operation may be unstable.

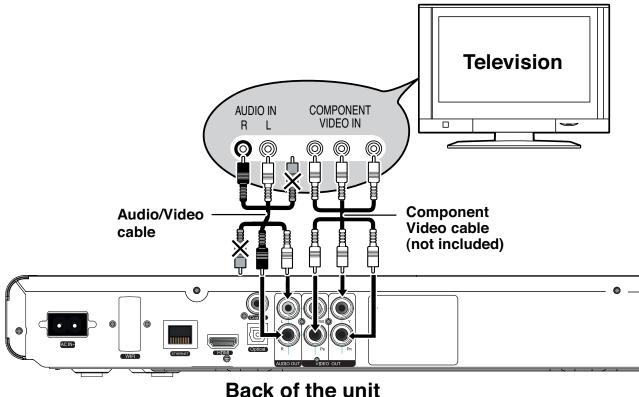
CONNECTION

CONNECTING THE PLAYER TO A TV USING THE HDMI OUTPUT JACK



- If your TV has an HDMI input, connect the player with the HDMI cable for best results, otherwise use the Component or Video OUT jack on the player.
- Set the TV's TV/VIDEO button or switch to the VIDEO setting.
- · When connecting the Player, refer to the owner's manual of the TV, as well as this manual.
- When connecting the Player to the TV, make sure the power is off and both units are unplugged before making any connections.
- Connect the player to your TV directly. If you connect the player through a VCR, the playback picture will be distorted because video discs are copy protected.
- After connecting to the HDMI jacks, set the Video and Audio options as shown on pages 32-34.
- After detecting that the HDMI jack has been connected, the unit will use the HDMI jack to output video signal automatically.
- If connecting to a Receiver and TV that have an HDMI jack, please see page 12.
- Depending on your TV, some HDMI resolutions may not work.

CONNECTING THE PLAYER TO A TV USING THE Y/PB/PR JACKS



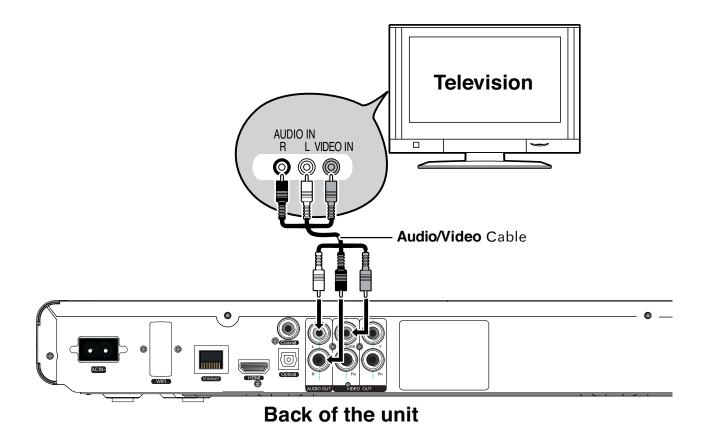
NOTES FOR CONNECTING TO A TV:

- If your TV has an HDMI input, connect the player with the HDMI cable for best results, otherwise use the Component or Video OUT jack on the player.
- The TV must have Y. PB and PR input jacks.
- Set the TV's TV/VIDEO button or switch to the VIDEO setting.
- When connecting the Player, refer to the owner's manual of the TV, as well as this manual.
- When connecting the Player to the TV, make sure the power is off and both units are unplugged before making any connections.
- Connect the player to your TV directly. If you connect the player through a VCR, the playback picture will be distorted because video discs are copy protected.
- If using a TV with a blue screen option, turn the option off for best results.
- After connecting to the Component jacks, set the Video Resolutions option as shown on page 32.

PROGRESSIVE (Y, PB, PR) VIDEO OUTPUT:

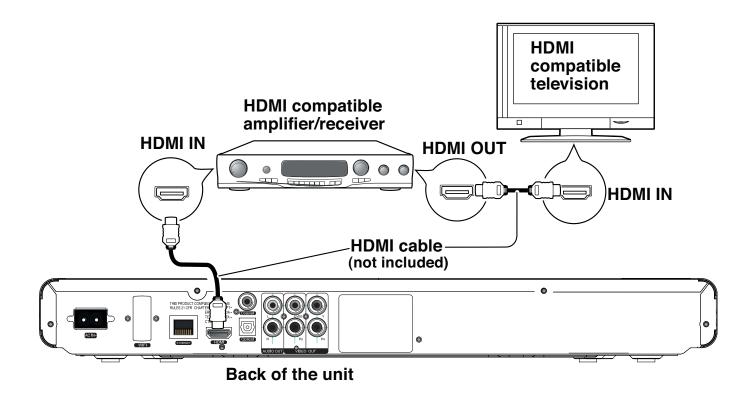
Use these jacks to connect to a TV with progressive video input jacks. Progressive scan is a video scanning system that displays all lines in a frame in one pass, as opposed to the traditional system, interlaced scan. This connection provides optimum quality. To ensure optimum picture quality, use three video-grade cables for connections. Note that it is essential to match the color-coded connectors with a compatible TV.

CONNECTING THE PLAYER TO A TV USING THE AUDIO/VIDEO OUTPUT JACKS



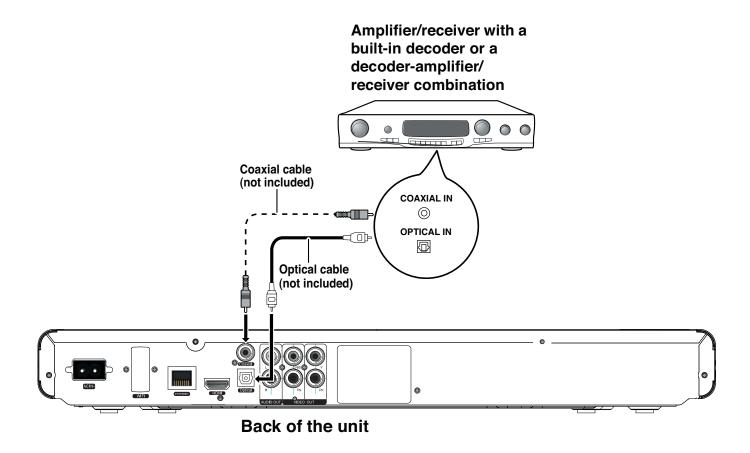
- If your TV has an HDMI input, connect the player with the HDMI cable for best results, otherwise use the Component or Video OUT jack on the player.
- Set the TV's TV/VIDEO button or switch to the VIDEO setting.
- When connecting the Player, refer to the owner's manual of the TV, as well as this manual.
- When connecting the Player to the TV, make sure the power is off and both units are unplugged before making any connections.
- If your TV only has one audio input, the use of a "Y" connector may be necessary. Visit your local electronics supply store.
- Connect the player to your TV directly. If you connect the player through a VCR, the playback picture will be distorted because video discs are copy protected.

CONNECTING THE PLAYER TO A TV AND RECEIVER USING THE HDMI OUTPUT JACK



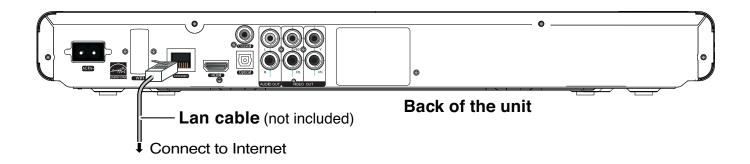
- If your TV has an HDMI input, connect the player with the HDMI cable for best results, otherwise use the Component or Video OUT jack on the player.
- Set the TV's TV/VIDEO button or switch to the VIDEO setting.
- · When connecting the Player, refer to the owner's manual of the TV and receiver, as well as this manual.
- When connecting the Player to the TV and receiver, make sure the power is off and both units are unplugged before making any connections.
- When using HDMI as your source, setup the HD resolution in the Video menu as described on page 32 and the Digital Output in the Audio menu as described on page 34. You can also press the TV RES button on the remote control to set the desired resolution.
- Depending on your TV, some HDMI resolutions may not work.

CONNECTING THE PLAYER TO A HOME THEATER SYSTEM (VIA COAXIAL OR OPTICAL JACK)



- When connecting the Player, refer to the owner's manuals for the TV and the audio system, as well as this manual.
- When connecting, make sure the power is off and all units are unplugged before making any connections.
- Connect the player to your TV directly. If you connect the player through a VCR, the playback picture will be distorted because video discs are copy protected.
- If you place the player near a tuner, the radio broadcast sound might be distorted. In this case, move the player away from the tuner.

CONNECTING THE PLAYER TO A NETWORK



WIRED: Connect via an ethernet LAN cable to connect via the Ethernet jack. It is recommended that you use a broadband router so you can utilize your internet with other sources. Refer to the instructions that came with the router.

WIRELESS: If you have a wireless network, you can connect as shown on page 41. After connecting via Wired or Wireless, make sure to set the Network Options as shown on page 39 before using.

See the following page for FAQs and information on BD-Live.

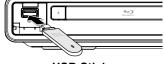
APPLICATIONS: You can use this unit to connect to Netflix, Pandora, etc. when connected to the internet. See page 43 to use one of these applications.

BD-LIVE

ENJOYING Bonus View and BD-Live

Some BD-ROM discs (labelled BD-Live) have bonus content and other data that can be downloaded to a USB drive connected to the front of this unit for enjoyment as follows:

- 1. Turn the player off.
- 2. Connect the player to a network as described on the previous pages.
- 3. Insert a USB drive with a minimum of 1GB and maximum of 32GB in FAT32 format.



USB Stick

- 4. Turn the player on.
- 5. Insert a BD-ROM with Bonus View/BD-Live.
- 6. Operation will differ depending on the disc. Refer to the instructions that came with the disc. However, usually on the disc title menu screen, there is a BD-Live option. Simply select it using the Navigation (◀,▶,▲,▼) buttons and then press the ENTER button to select it.

BD-Live FAQs:

Q1: What is BD-Live?

A1: BD-Live is a new Blu-ray feature that utilizes the internet to extend your movie viewing experience through downloaded content and advanced interactivity. When using this player with BD-Live enabled Blu-ray Discs, you can download a variety of up-to-date content, such as previews, trivia games, exclusive special features and more. The content will vary from disc to disc.

Q2: Do all Blu-ray Discs have this feature?

A2: BD Live is still relatively new, so make sure that the disc has the BD-Live marking on the disc packaging.

Q3: How do I access BD-Live?

A3: With a BD-Live enabled disc inserted and this unit connected to the internet, simply select the BD-Live option at the disc title menu screen of the disc.

Q4: Will all discs have the same BD-Live contents?

A4: No, they will differ from disc to disc.

Q5: How do I navigate throughout the BD-Live screen?

A5: Using the Navigation buttons on the remote.

Q6: How do I delete something I downloaded?

A6: See page 40 to delete the information from the USB Drive.

Q7: Where can I find a list of all of the downloads on my player?

A7: The BD-Live homepage (shown when you activate Blu-ray) provides the list of downloads which can be played with the currently-inserted disc. The list on the display may be different from disc to disc. Also, the Blu-ray Disc player may have a function to show the list of files on local storage, but those downloads can only be played with the specific disc which enabled the content download.

ABOUT DISCS

The region/BD-ROM codes for this player are listed on the back of the player. See the following page for information regarding region/BD-ROM codes.

PLAYABLE DISCS:

The following discs can be played back on this player:



MP3

When playing an MP3, the total number of files will appear in the display, and the TV screen will list the folders/tracks. MP3 is the abbreviation of "MPEG1 Audio Layer 3". MPEG Audio is a format that compresses the audio portion only.

IMPORTANT NOTE:

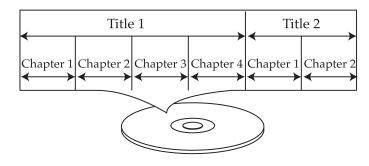
Due to many variables, including recording condition, type of disc, writing software, etc., this unit does not guarantee playback of all MP3 discs.

DISC TYPES:

DVD/BD

Data on most discs is divided into sections called "titles" and then into subsections called "chapters", each of which is given a title or chapter number. Some features of this player will not operate with some discs as they are preset. If a function you selected does not run as desired, refer to the manual accompanying the disc.

BLU-RAY NOTE: Blu-ray is a new and exciting format. Accordingly, disc compatibility issues with new and existing format discs is possible. Not all discs are compatible and not every disc will playback.



AUDIO CD

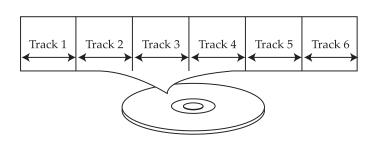
Data on an audio CD is divided into sections called "tracks", each of which is given a track number.

KODAK PICTURE CD

Data on a Kodak picture CD is usually not divided into separate folders, and should appear in the root directory.

DVD-R/RW or DVD+R/RW

This disc can be played in this player once it has been finalized by the recording unit.



ABOUT DISCS (CONTINUED)

IMPORTANT:

It is important that you read the manual that accompanies the disc, as there are features that are on the player that cannot be used with certain discs. There are also extra features on the disc that are different for each disc, so they are not explained in this owner's manual.

This player conforms to the NTSC and PAL color systems. However, if you are in the USA, leave this setting on NTSC. If incorrectly set to PAL, the TV picture will roll vertically. In this case, simply set to NTSC as shown on next page.

Notes on Copyright:

It is forbidden by law to copy, broadcast, show, broadcast on cable, play in public and rent copyrighted material without permission. Video discs are copy protected, and any recordings made from these discs will be distorted. This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only, unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Region Management Information:

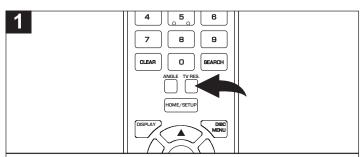
This player is designed and manufactured to respond to the Region Management Information that is recorded on a disc. If the Region number described on the disc does not correspond to the Region number of this player, this player cannot play that disc. You may not be able to play back some video discs on this player if they were purchased from outside your geographic area or made for business purposes.

BASIC OPERATION

IMPORTANT:

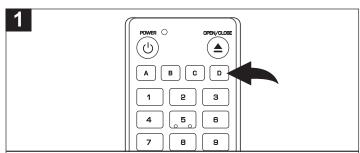
When "\overline{\Omega}" appears while pressing a button, this means that the corresponding function cannot be performed either on the disc inserted, or in the selected mode.

TV RES BUTTON



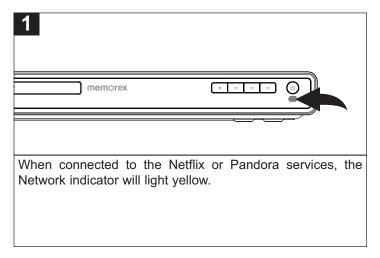
When connected via the HDMI cable, press the TV RES button repeatedly to change the resolution of the screen.

COLOR BUTTONS



These buttons are used as shortcuts for some on-screen items when viewing Blu-ray discs (can also be used for BD-Live's Java interactive operations). These buttons may not work with all discs.

NETWORK INDICATOR



IMPORTANT NOTES:

- After plugging in, the unit will be in the Standby mode and the Power indicator will be off. Press the Power button to turn on the unit; the Power button light will now be yellow. Loading will take about 30 seconds.
- Always hold the disc without touching either of its surfaces. When inserting a disc, position it with the printed title side facing up, align it with the guides and place it in its proper position.
- It is important that you read the manual that accompanies the disc as there are features that are on this player that cannot be used with certain discs. There are also extra features that are different for each disc, so they are not explained in this owner's manual.

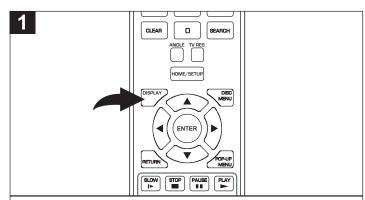
BASIC OPERATION (CONTINUED)

HOME/SETUP BUTTON (DURING PLAYBACK)

CLEAR O SEARCH ANGLE TV RES. HOME/SETUR DISCOMMENU ENTER FOR-UP MENU SLOW STOP FAUSE PAUS PREV. REW F.F NEXT

During playback, press the HOME/SETUP button **1**; the unit will return to the main menu.

DISPLAY



DVD/BD: While playing a DVD, press the DISPLAY button to display the information on the playing DVD such as the title playing, chapter playing, total chapters, repeat mode, elapsed time and total time.

CD: While playing a CD, press the DISPLAY button to display the information on the playing CD such as the track playing, total tracks, repeat mode, random mode, elapsed time and total time.

AUDIO: While playing an audio file, press the DISPLAY button to display the information on the playing file such as the file playing, file information, repeat mode, random mode, elapsed time and total time.

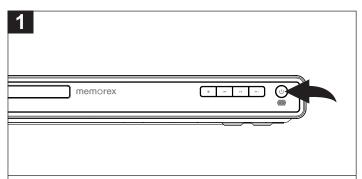
PICTURE: While viewing a picture file, press the DISPLAY button to display the information of the file such as the name, repeat mode file number and total picture files.

VIDEO: While playing a video file, press the DISPLAY button to display the information on the playing file such as the file playing, file information, repeat mode, random mode, elapsed time and total time.

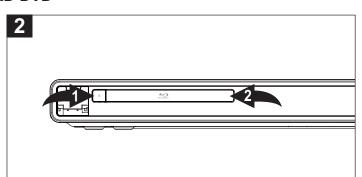
Press the DISPLAY button again to remove the information from the TV screen.

BD/DVD OPERATION

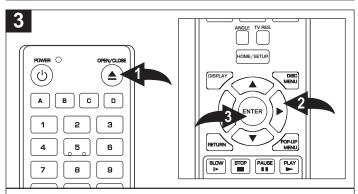
PLAYBACK OF A BLU-RAY DISC OR A STANDARD DVD



Press the POWER button to turn on the unit. The Power indicator light will go on.

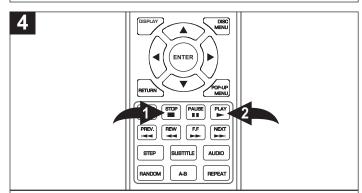


Press the Open/Close button **1** to open the disc tray and insert a disc with the label side facing up on the disc tray **2**.



Press the Open/Close button **1** to close the disc tray. If the Auto Disc Playback setting is enabled, the disc will automatically start playback.

If not, the Home screen will appear. Select BD-ROM or DVD using the Navigation (\blacktriangle , \blacktriangledown) buttons ② and then press the ENTER button ③; playback will begin. On many discs, the disc will begin, but will show a title screen. At the title screen, use the Navigation (\blacktriangleleft , \blacktriangleright , \blacktriangle , \blacktriangledown) buttons ② to select the desired option and the ENTER button ③ to select it.

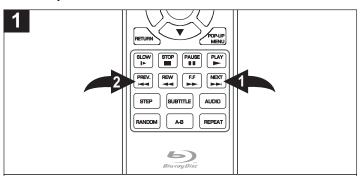


To stop playback, press the Stop ■ button ①. Because the unit will remember where you stopped, simply press the Play ▶ button ② to resume playback where you left off (resuming playback).

If the Stop ■ button • is pressed again, the unit will enter the Stop mode.

- If a Menu appears on the TV screen, press the Navigation (◄,▶,▲,▼) buttons to select the desired option/item, then press the ENTER button. Please make sure to refer to the disc's jacket or case for additional information.
- This unit has a resume function that will allow you to resume playback from the point you last stopped. Resuming playback may not work on all discs.
- While in the Home Screen, select BD-ROM or DVD. Then press the ENTER button to select it and start playback.

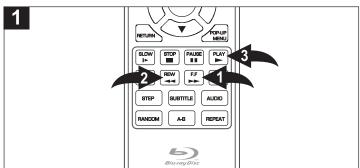
SKIP W/SKIP M



Press the Skip \blacktriangleright button \bullet to advance the disc to the beginning of the next chapter.

Press the Skip f M button f Q once to move the disc to the beginning of the current chapter. Press twice to move the disc to the beginning of the previous chapter.

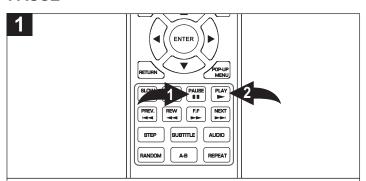
SEARCH



During playback, press either the Search/Forward ▶▶ ① or Search/Reverse ◄◄ ② button to move the disc forward or backward at a faster speed to locate a specific section. Repeatedly press these buttons and the speed will increase as follows: 2x, 4x, 8x, 16x, 32x, 64x and 128x.

Resume normal playback by pressing the Play ▶ button ❸.

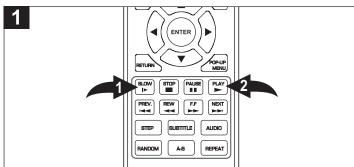
PAUSE



Press the Pause II button **1** to pause the picture.

Press the Pause II button **①** again or the Play ▶ button **②** to resume normal playback.

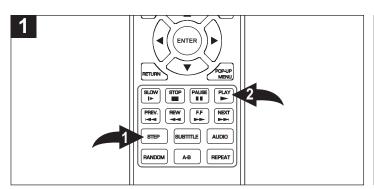
SLOW MOTION



Press the Slow button \bullet to move the disc in slow motion (1/2) speed. Repeatedly press this button for speeds of 1/4x and 1/8x.

Press the Play ▶ button ❷ to resume normal playback.

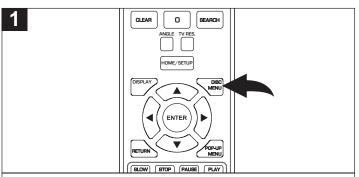
STEP



During playback, press the STEP button **1** once to pause playback. Repeatedly press the STEP button **1** to advance the unit one frame at a time.

Press the Play ▶ button ❷ to resume normal playback.

DISC MENU BUTTON

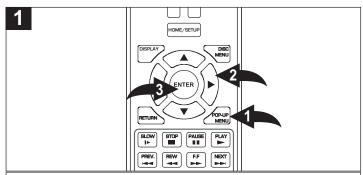


BD: Press the DISC MENU button to display additional information, features or contents stored on the disc. The Top Menu will differ from disc to disc.

DVD: Press the DISC MENU button to go to the disc's root menu.

Depending on the disc, the Top Menu may not be available.

POP-UP MENU BUTTON

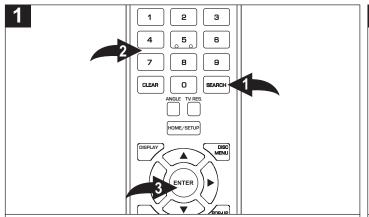


BD: Press the POP-UP MENU button **①** to display the Pop-Up Menu while the BD disc is playing back. You can select various functions from this Pop-Up Menu. Use the Navigation (◀,▶,▲,▼) buttons **②** to select the desired option and the ENTER button **③** to select it.

DVD: Press this button to display the disc's title menu across the bottom of the TV screen.

Depending on the disc, the Pop-Up Menu may not be available.

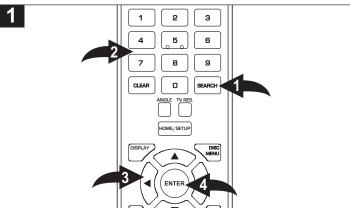
TITLE/CHAPTER SEARCH



Press the SEARCH button **1**; the Goto Title option will appear. Select the desired title using the Number buttons **2** and then press the ENTER button **3**; the unit will start play at that title.

Press the SEARCH button \bullet a second time; the Goto Chapter option will appear. Select the desired chapter using the Number buttons \bullet and then press the ENTER button \bullet ; the unit will start play at that chapter.

TIME SEARCH

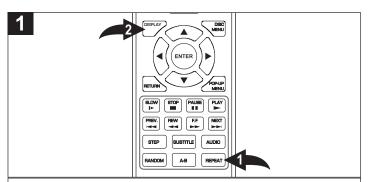


Press the SEARCH button ● a third time; the Goto Time option will appear. Enter the two digits for the seconds using the Number buttons ❷, then press the Navigation ◀ button ❸ to select the minutes. Enter two digits for the minutes using the Number buttons ❷, then press the Navigation ◀ button ❸ to select the hours. Enter two digits for the hours using the Number buttons ❷, then press the Navigation ◀ button ❸ to select the hours.

When done setting the hours, press the ENTER button **9** and the unit will start play at that point.

NOTE: Press the CLEAR button to clear any incorrectly entered time.

REPEAT PLAYBACK

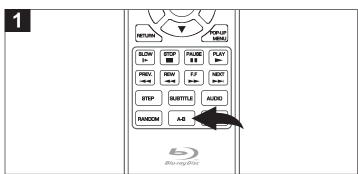


While in the Playback mode, press the REPEAT button ① once; the Repeat Title icon will appear on the screen for a few seconds and the currently playing title will repeat continuously. Press the REPEAT button ① a second time; the Repeat Chapter will appear on the screen for a few seconds and the currently playing chapter will repeat continuously. Press the REPEAT button ① once more to cancel all Repeat modes. This is not available on all discs.

Press the DISPLAY button **②** to check the status of the Repeat function.

A-B REPEAT PLAYBACK

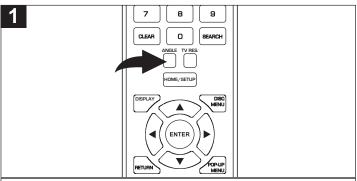
While playing back a disc, this unit can repeatedly play back a specific section.



While in the Playback mode, press the Repeat A-B button to define where you want the section to start. Press the Repeat A-B button again to define where you would like the section to end; the unit will then play the selected area continuously. Press the Repeat A-B button again to cancel A-B Repeat mode.

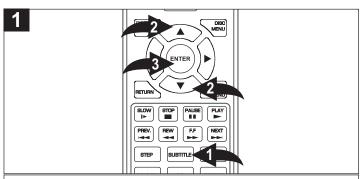
ANGLE

Some discs may contain scenes which have been shot simultaneously from a number of different camera angles. This feature only works on discs with more than one camera angle. The jacket will be marked with "[]".



While in the Playback mode, press the ANGLE button; the total number of angles will appear on the screen. Repeatedly press the ANGLE button to select the desired angle; the angle will change in one to two seconds. This feature is not available on all discs.

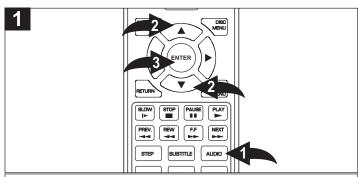
SUBTITLE



Press the SUBTITLE button ① and the Subtitle options will appear. Select **Subtitle** using the Navigation (\blacktriangle , \blacktriangledown) buttons ② and then press the ENTER button ③. Select the desired subtitle language (or select Off for no subtitles) using the Navigation (\blacktriangle , \blacktriangledown) buttons ② and then press the ENTER button ③.

This feature is not available on all discs.

AUDIO

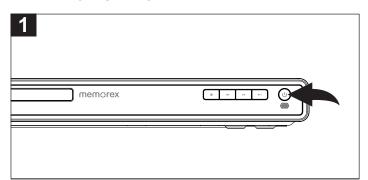


Press the AUDIO button \bullet and the Audio options will appear. Select **Audio** using the Navigation (\blacktriangle , \blacktriangledown) buttons \bullet and then press the ENTER button \bullet . Select the desired language using the Navigation (\blacktriangle , \blacktriangledown) buttons \bullet and then press the ENTER button \bullet .

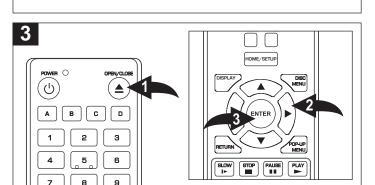
This feature is not available on all discs.

CD OPERATION

PLAYBACK OF A CD

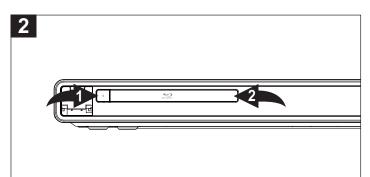


Press the POWER button to turn on the unit. The Power indicator light will go on.

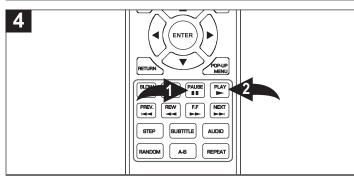


Press the Open/Close button to close the disc tray. If the Disc Auto Playback setting is enabled, the disc will automatically start playing back from track 1.

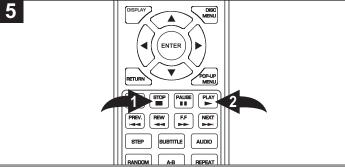
If not, the Home screen will appear. Select CD-DA using the Navigation (\triangle , ∇) buttons ② and then press the ENTER button ③; playback will begin.



Press the Open/Close button **1** to open the disc tray and insert a disc with the label side facing up on the disc tray **2**.



Press the Pause II button **①** to pause playback. Press the Pause II button **①** again or the Play ▶ button **②** to resume playback.



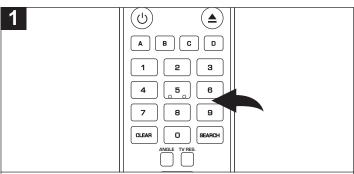
To stop playback, press the Stop ■ button ①. Because the unit will remember where you stopped, simply press the Play ▶ button ② to resume playback where you left off (resuming playback).

If the Stop ■ button • is pressed again, the unit will enter the Stop mode.

- This unit has a resume function that will allow you to resume playback from the point you last stopped. Resuming playback may not work on all discs.
- While in the Home screen, select CD-DA. Then press the ENTER button to select it and start playback.

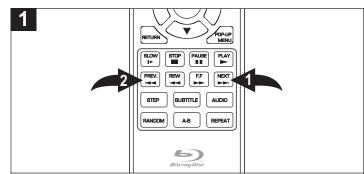
CD OPERATION (CONTINUED)

SELECTING TRACKS USING THE NUMBER BUTTONS



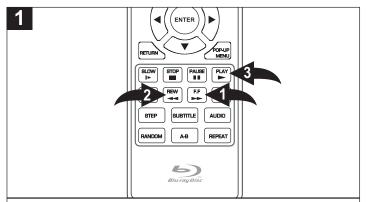
During playback, press the Number buttons corresponding to the track number you would like to play and the unit will playback the desired track automatically.

SELECTING TRACKS USING THE SKIP ₩ OR ₩ BUTTON



During playback, press the Skip ▶ or ₩ ❷ button to select the next or previous track to be played.

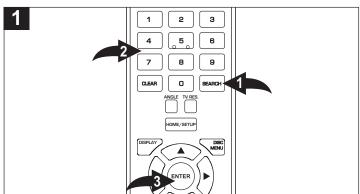
FORWARD ► ► /REVERSE ◀ ■ SEARCH



During playback, press either the Search/Forward ▶▶ **1** or Search/Reverse ◀◀ **2** button to move the disc forward or backward at a faster speed to locate a specific section. Repeatedly press these buttons and the speed will increase as follows: 2x, 4x, 8x, 16x, 32x, 64x and 128x.

Resume normal playback by pressing the Play ▶ button ❸.

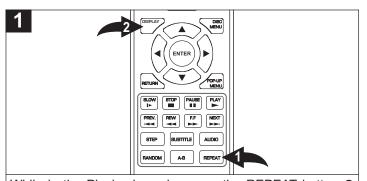
TRACK SEARCH



Press the SEARCH button **①**; the Goto Track option will appear. Select the desired track to go to using the Number buttons **②** and then press the ENTER button **③**; the unit will start play at that track.

CD OPERATION (CONTINUED)

REPEAT PLAYBACK

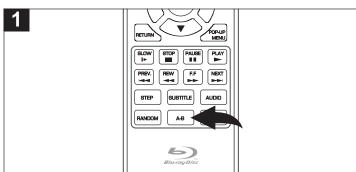


While in the Playback mode, press the REPEAT button ① once; the Repeat icon will appear on the screen for a few seconds and the currently playing Track will repeat continuously. Press the REPEAT button ① a second time; the Repeat All icon will appear on the screen for a few seconds and the disc will repeat. Press the REPEAT button ① once more to cancel all Repeat modes.

Press the Display button **②** to check the status of the Repeat function.

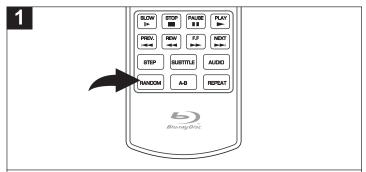
A-B REPEAT PLAYBACK

While playing back a CD, this unit can repeatedly play back a specific section.



While in the Playback mode, press the Repeat A-B button to define where you want the section to start. Press the Repeat A-B button again to define where you would like the section to end; the unit will then play the selected area continuously. Press the Repeat A-B button again to cancel A-B Repeat mode.

RANDOM



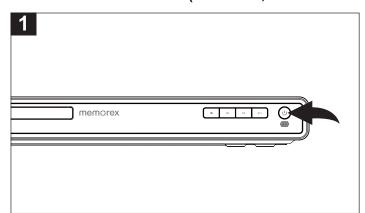
Press the RANDOM button repeatedly as follows:

1st Press: Randomly play the CD. **2nd Press:** Cancel the Random function.

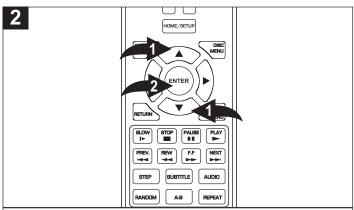
NOTE: While the Random mode is activated, the playback will be repeated continuously. If you press the Repeat button, it will become Repeat One.

DATA CD/USB OPERATION

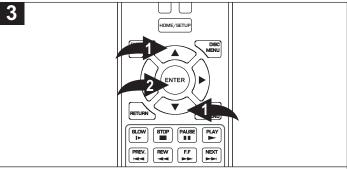
PLAYBACK OF A DATA (PICTURE, AUDIO OR WMV VIDEO) DISC/USB



Press the POWER button to turn on the unit. The Power indicator light will go on.



TO PLAY A USB: With the power off, open the USB door and insert a USB device with data files. Turn the power back on and the Home menu will appear. Select "Media" using the Navigation (\blacktriangle , \blacktriangledown) buttons \bullet and then press the ENTER button \bullet to enter the media center.



TO PLAY A DATA DISC: Insert a disc with data files; the Home menu will appear. Select "Media" using the Navigation (▲,▼) buttons • and then press the ENTER button • to enter the media center. See the Specifications on page 48 for a list of file formats allowed.

NOTE: The disc will not autoplay, regardless of the setting of the AutoPlay option.

4

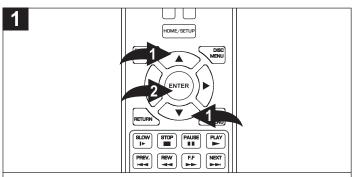
The media center will show all the items on the inserted device/data disc. If there are music files, it will show a Music icon; if there are videos, it will show a Video icon; and if there are photos, it will show a Photo icon.

See the following pages to view/play the desired formats:

MP3/WMA: See the following page. Photos (JPEG/PNG): See page 31. Videos (WMV): See page 30.

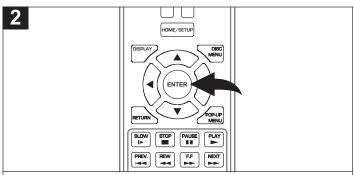
DATA CD/USB OPERATION (CONTINUED)

AUDIO FILES (MP3/WMA)

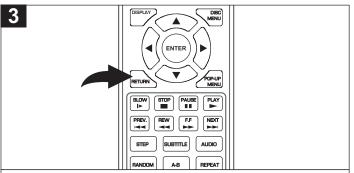


After performing the four steps on the previous page, select the Music icon using the Navigation $(\blacktriangle, \blacktriangledown)$ buttons \bullet and then press the ENTER button \bullet .

Select a an MP3/WMA file or a Folder first and then select the file using the Navigation (\triangle , \blacktriangledown) buttons \bullet .



After a file is selected, press the ENTER button. The selected file will start playing and a screen will appear that displays information on the playing file, such as file type, artist and album.

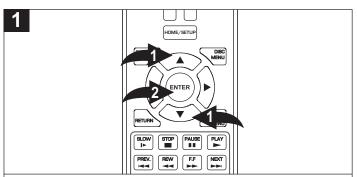


To select more files, press the RETURN button to go to the Media Center. At this screen, you can select another song, select Play Files or go back to the main menu

- The Stop, Skip, Search Forward/Backward, Pause, Random and Repeat (Repeat File and Repeat All) buttons will operate as described previously.
- Press the HOME/SETUP button to go back to the Home page.

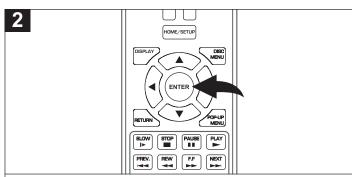
DATA CD/USB OPERATION (CONTINUED)

VIDEO FILES (WMV)

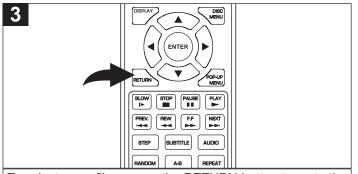


After performing the four steps on page 28, select the Video icon using the Navigation (\blacktriangle , \blacktriangledown) buttons \bullet and then press the ENTER button \bullet .

Select a WMV file or a Folder first and then select the file using the Navigation (\blacktriangle , \blacktriangledown) buttons \bullet .



After a file is selected, press the ENTER button. The selected file will start playing.

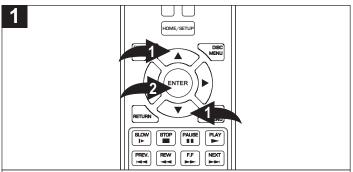


To select more files, press the RETURN button to go to the Media Center. At this screen, you can select another video, select Play Files or go back to the main menu

- The Slow, Step, Stop, Skip, Search Forward/Backward, Pause, Random and Repeat (Repeat File and Repeat All) buttons will operate as described previously.
- Press the HOME/SETUP button to go back to the Home page.
- You can browse through pictures while music is playing.

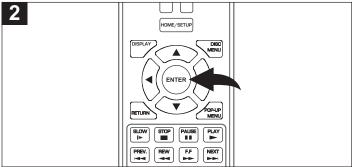
DATA CD/USB/SD CARD OPERATION (CONTINUED)

PHOTO FILES (JPG/PNG)

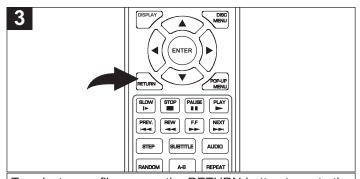


After performing the four steps on page 28, select the Photo icon using the Navigation (\blacktriangle , \blacktriangledown) buttons \bullet and then press the ENTER button \bullet .

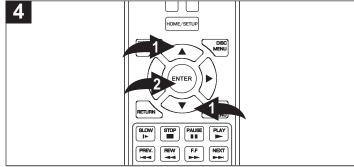
Select a JPG or PNG file or a Folder first, and then select the file using the Navigation (\blacktriangle , \blacktriangledown) buttons \bullet .



After a file is selected, press the ENTER button. The selected file will appear on the screen.



To select more files, press the RETURN button to go to the Media Center. At this screen, you can select another picture, start a slide show, change the slide show settings (see next step) or browse music to play while the photos are being viewed. You can also go back to the main menu.



At the Media center, you can set the Slide Show options (Effect and Delay) by selecting Settings using the Navigation (\blacktriangle , \blacktriangledown) buttons \bullet and then pressing the ENTER button \bullet . Select Slide Show Effects or Slide Show Delay using the Navigation (\blacktriangle , \blacktriangledown) buttons \bullet and then press the ENTER button \bullet . Set as desired. When done setting, press the ENTER button \bullet again.

- · During playback of a slide show, use the Search Forward/Reverse buttons to set the delay.
- When viewing a picture, you can start the slide show by pressing the Play ▶ button.
- When viewing a picture, you can zoom in by repeatedly pressing the ENTER button. While zoomed in, use the Navigation (◀,▶,▼,▲) buttons to move the picture around.
- The Stop, Skip, Pause and Repeat buttons will operate as described previously.
- Press the HOME/SETUP button to go back to the Home page.
- · You can browse through pictures while music is playing.

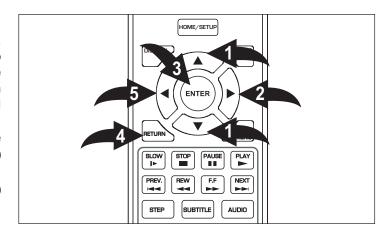
SETUP MENU

NAVIGATING THE MENUS:

Navigate the menus using the Navigation (\blacktriangle , \blacktriangledown) buttons \bullet . Press the Navigation (\blacktriangleright) button ② or ENTER button ③ to select a menu option. Press the RETURN button ④ or the Navigation (\blacktriangleleft) button ⑤ while in a pop-up screen to return to the previous menu. Repeatedly press the RETURN button ⑥ to exit the menus.

While in the desired Setup menu, make a selection using the Navigation (\blacktriangle , \blacktriangledown) buttons \bullet , then press the Navigation (\blacktriangleright) button ② to enter.

Select the desired option using the Navigation $(\blacktriangle, \blacktriangledown)$ buttons \bullet , then press the ENTER button \bullet .



DISPLAY SETUP MENU:

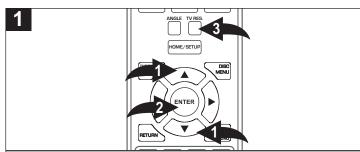
To enter the Display Setup menu, while no disc is inserted or disc is in the Stop mode, if not already at the Setup screen press the HOME/SETUP button, select **Settings** using the Navigation (\blacktriangle , \blacktriangledown) buttons and then press the Navigation (\blacktriangleright) button. Select **Display** using the Navigation (\blacktriangle , \blacktriangledown) buttons and then press the Navigation (\blacktriangleright) button.

TV TYPE

NTSC: Select when using an NTSC TV. **PAL:** Select when using a PAL TV.

IMPORTANT: In the USA, the standard is NTSC.

RESOLUTION



Use this option to set the desired resolution when connected to the component video output, or HDMI output. The true output resolution depends on the connection used and the TV's resolution.

While in the Display Setup menu, select **Resolution**. Select one of the options (480i, 480p, 720p, 1080i, 1080p, HDMI Auto for NTSC; or 576i, 576P, 720P, 1080i, 1080P, HDMI Auto for PAL) using the Navigation (\blacktriangle , \blacktriangledown) buttons \bullet , then press the ENTER button \bullet . Select HDMI Auto if connected to a TV via the HMDI jack and the unit will automatically select the best resolution. Not available from all TVs.

While in HDMI mode, you can also change the resolution by pressing the TV RES button $\ensuremath{\mathfrak{G}}$.

SETUP MENU (CONTINUED)

DISPLAY SETUP MENU (continued)

TV ASPECT

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

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

4:3 PAN AND SCAN: Select when the unit is connected to a conventional TV. Video material formatted in the Pan Scan style is played back in that style (the left and right edges are cut off).

4:3 LETTERBOX: Select when the unit is connected to a conventional TV. Wide-screen images are shown on the screen with a black band at the top and bottom.

DEEP COLOR

This option determines whether to use the Deep Color (color depth) setting for video signals output from the HDMI OUT jack. Connecting the player and a TV that supports Deep Color allows more precise brightness and color information than when connecting it to a TV that does not support Deep Color. It is recommended to set this option to OFF if the picture is unstable or colors appear unnatural.

FILM MODE

This menu item only applies if you are connected to your TV (or surround sound receiver) via HDMI.

Movies are recorded on film at a rate of 24 pictures, or frames, per second. Many of the movies on BD disks are placed on the disk at this frame rate (24 frames per second). However, not all TVs can display 24 frames/second of video. If the BD player is connected to the TV via HDMI, and the TV has the capability to display 24 frames/second of video, setting the Film Mode option to YES indicates to the BD player that it may output disk content recorded at 24 frames/second directly (without converting it to 30 or 60 frames/second).

COLOR SPACE

The Color Space setting only affects the HDMI video output. Choose the option that corresponds correctly to your TV (YCC or RGB). If your TV supports xvYCC, a wider more accurate range of colors will display, compared to RGB.

SETUP MENU (CONTINUED)

AUDIO SETUP MENU:

To enter the Audio Setup menu, while no disc is inserted or disc is in the Stop mode, if not already at the Setup screen press the HOME/SETUP button, select **Settings** using the Navigation (\blacktriangle , \blacktriangledown) buttons and then press the Navigation (\blacktriangleright) button. Select **Audio** using the Navigation (\blacktriangle , \blacktriangledown) buttons and then press the Navigation (\blacktriangleright) button.

PCM DOWN-SAMPLING

While in the Audio Setup menu, select **PCM Downsampling** using the Navigation (\blacktriangle , \blacktriangledown) buttons, then press the Navigation (\blacktriangleright) button to enter.

Select the desired option using the Navigation (\blacktriangle , \blacktriangledown) buttons, then press the ENTER button.

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

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

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

IMPORTANT: This setting will not do anything if you are connected via HDMI.

NOTE: If you do not have a surround sound receiver connected to the unit, you should leave the PCM downsampling at 48 KHz, and proceed to the next setup menu item. This is true regardless of whether the audio is connected to the TV with HDMI or the analog stereo outputs.

STEREO DOWNMIX

Reproducing 5.1 channels of audio through a lesser number of speakers requires a process called downmixing. Downmixing combines the Left, Right, Center, Left Surround, and Right Surround channels in a somewhat logical manner to drive stereo or mono speakers.

Auto: Select for the unit to automatically select the downmix.

Stereo (LoRo): Choose this setting when playing DVDs; two channels of signals will be output from the left and right soundtrack. When playing CDs, a stereo signal will be output to the speakers.

Surround Encoded LT/RT: Choose this setting if the original movie on the disc was recorded in the Pro Logic Dolby Digital format.

DIGITAL OUTPUT

PCM Stereo: Select if you do **not** have an audio receiver connected or the audio receiver connected is not a 5.1/7.1 channel receiver.

Bitstream HD: Select and this unit will send Dolby TrueHD or DTS-HD Advanced Digital Out bitstreams over HDMI. If your player is not connected to a compatible HDMI receiver (for example, if connected directly to the TV or if connected to an audio receiver using an optical cable), a compatible audio signal is automatically sent over the HDMI and optical connections. With this setting, Blu-ray audio is limited to the soundtrack for the main movie.

Bitstream Legacy: Sends a DTS or Dolby Digital bitstream from the disc over the HDMI and optical connections. Bluray audio is limited to the soundtrack for the main movie.

PCM 5.1: Sends a PCM audio signal of up to 5.1 channels over the HDMI connection and up to 2 channels over the optical connection.

PCM 7.1: Sends a PCM audio signal of up to 7.1 channels over the HDMI connection and up to 2 channels over the optical connection.

DYNAMIC RANGE CONTROL

Dynamic Range Control allows the unit to make the loud parts of a movie's audio track quieter than it would be in the theatre, without making the dialog of the actors any quieter. This would be useful, for instance, when you want to watch a movie in the evening when others might be sleeping.

NOTES: This setup menu item has no effect unless:

- The device playing the disc's audio (TV or surround audio receiver) is connected to the BD player's analog audio outputs; OR
- You have selected "Bitstream Mixed" in the BD player's Audio Setup menu.

When Dynamic Range Control is set to OFF, movie soundtracks are played with the standard dynamic range. When movie soundtracks are played at low volume or from smaller speakers, you can set Dynamic Range Control to ON. Your player applies appropriate compression to make low-level content more intelligible and prevent dramatic passages from getting too loud.

Selecting the Auto setting turns on the Dynamic Range Control for all BD movie soundtracks except Dolby TruHD. If you have selected a TruHD track on the BD disk, the "auto" selection tells the BD player to only turn on dynamic range control if information embedded in the TruHD sound track tells it to do so.

SETUP MENU (CONTINUED)

LANGUAGE SETUP MENU:

To enter the Language Setup menu, while no disc is inserted or disc is in the Stop mode, if not already at the Setup screen press the HOME/SETUP button, select **Settings** using the Navigation (\blacktriangle , \blacktriangledown) buttons and then press the Navigation (\blacktriangleright) button. Select **Language** using the Navigation (\blacktriangle , \blacktriangledown) buttons and then press the Navigation (\blacktriangleright) button.

OSD LANGUAGE

Use this option to select what language will be used for the on-screen messages.

Select the desired language using the Navigation (\blacktriangle , \blacktriangledown) buttons, then press the ENTER button.

AUDIO

Use this option to select the language the disc will be played back in.

Select the desired language using the Navigation $(\blacktriangle, \blacktriangledown)$ buttons, then press the ENTER button.

The disc must be recorded in the selected language, otherwise the default language of the disc will be played.

MENU

Use this option to select the language the Disc Menu will be in

Select the desired language using the Navigation $(\blacktriangle, \blacktriangledown)$ buttons, then press the ENTER button.

SUBTITLE

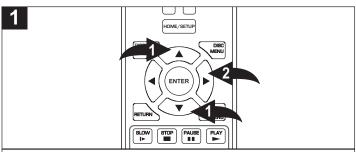
Use this option to select the language the subtitles will be in. Select the desired language (or NONE to turn off Subtitles) using the Navigation (\blacktriangle , \blacktriangledown) buttons, then press the ENTER button.

The disc must be recorded in the selected language, otherwise the default language of the disc will be shown.

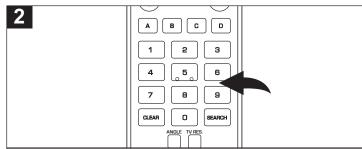
PARENTAL SETUP MENU:

To enter the Parental Setup menu, while no disc is inserted or disc is in the Stop mode, if not already at the Setup screen press the HOME/SETUP button, select **Settings** using the Navigation (\blacktriangle , \blacktriangledown) buttons and then press the Navigation (\blacktriangleright) button. Select **Parental** using the Navigation (\blacktriangle , \blacktriangledown) buttons and then press the Navigation (\blacktriangleright) button.

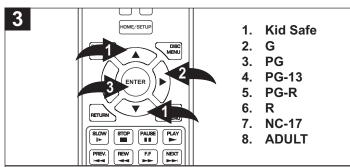
SETTING THE PARENTAL CONTROL OPTIONS



While in the Parental Setup menu, select Parental Control using the Navigation (\blacktriangle , \blacktriangledown) buttons \bullet , then press the Navigation (\blacktriangleright) button \bullet to enter.



At the Password pop-up screen, enter the four digit password using the Number buttons. The default password is "0000", but it can be changed as per the instructions on the next page.



Select Parental Level using the Navigation $(\blacktriangle, \blacktriangledown)$ buttons \bullet , then press the Navigation (\blacktriangleright) button \bullet to enter.

Using the Navigation (\blacktriangle , \blacktriangledown) buttons \bullet , select the desired rating level for the disc. Select OFF to permit all movies. For example, if you select "R", discs that are level NC-17 and Adult will not play.

KID SAFE: Suitable for all children

G: General Audiences

PG: Parental Guidance suggested

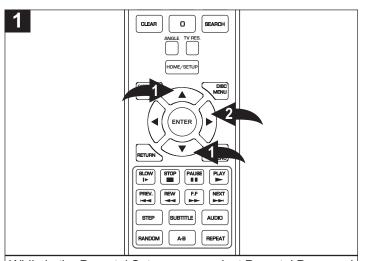
PG-13: Parental Guidance for children under 13 years old **PG-R**: Under 17 years old, Parental Guidance suggested **R**: Under 17 years old, Parental Guidance strongly suggested

NC-17: 17 years and older

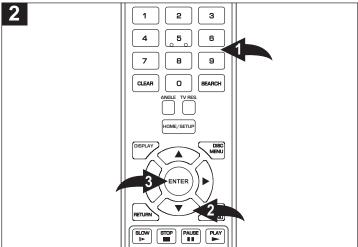
ADULT: Adults only

When done, press the ENTER button .

CHANGING THE PASSWORD



While in the Parental Setup menu, select Parental Password using the Navigation (\blacktriangle , \blacktriangledown) buttons \bullet , then press the Navigation (\blacktriangleright) button ② to enter. The Password pop-up screen will appear.



At the Password pop-up screen, enter the new four digit password using the Number buttons \P , then press the Navigation (\P) button \P to select OK. Press the ENTER button \P to complete the process. The new password will now be set.

SYSTEM SETUP MENU:

To enter the System Setup menu, while no disc is inserted or disc is in the Stop mode, if not already at the Setup screen press the HOME/SETUP button, select **Settings** using the Navigation (\blacktriangle , \blacktriangledown) buttons and then press the Navigation (\blacktriangleright) button. Select **System** using the Navigation (\blacktriangle , \blacktriangledown) buttons and then press the Navigation (\blacktriangleright) button.

OPTICAL DISC AUTOPLAY

Turning AutoPlay on will load data and start playback automatically when a disc (not including data disc) is inserted.

Select ON to enable or OFF to disable AutoPlay using the Navigation (\blacktriangle , \blacktriangledown) buttons, then press the Enter button.

TIME ZONE

Select the time zone you are in using the Navigation (\blacktriangle , \blacktriangledown) buttons, then press the Enter button.

SCREEN SAVER DURATION

Select the desired time you want the unit to be idle before turning the screen saver on, or OFF (the screen saver will not come on) using the Navigation (\triangle , \blacktriangledown) buttons, then press the ENTER button.

AUTO POWER DOWN

The unit has an "Auto Power Down" function which will turn off the unit's power after a certain period of time during music playback, or when a setup menu or disc title menu is being displayed on the TV.

Select the desired time you want the unit to be idle before turning the unit off using the Navigation (\triangle , \blacktriangledown) buttons, then press the ENTER button.

CEC SUPPORT

This option is used to allow the TV's remote control to control certain functions of the Blu-ray disc player, and for the Blu-ray player to control certain functions of the TV.

Note: Not all TVs are compatible with this unit. The TV and Blu-ray player must be connected via HDMI for this feature to work

Select ON to enable control over using one remote or OFF to disable CEC Support.

UPDATE VIA NETWORK

If connected to the internet, this setting will look for firmware updates that will improve performance, or add new features and functionality to your unit.

Start the firmware update process by pressing the ENTER button.

RESTORE FACTORY DEFAULTS

Use the Navigation $(\blacktriangle, \blacktriangledown)$ buttons, to Choose one of the following options shown below, then press the ENTER button; a pop up a dialog box will appear, choose OK in the box, and then press the ENTER button to confirm.

- Restore factory settings and deactivate all connected applications
- Restore Factory Settings
- Deactivate all connected applications
- Deactivate Netflix
- · Deactivate Pandora

NETWORK SETUP MENU:

To enter the Network Setup menu, while no disc is inserted or disc is in the Stop mode, if not already at the Setup screen press the HOME/SETUP button, select **Settings** using the Navigation (\blacktriangle , \blacktriangledown) buttons and then press the Navigation (\blacktriangleright) button. Select **Network** using the Navigation (\blacktriangle , \blacktriangledown) buttons and then press the Navigation (\blacktriangleright) button.

CONNECTION

If using a wired internet connection, select WIRED using the Navigation $(\blacktriangle, \blacktriangledown)$ buttons, then press the ENTER button. and the unit will automatically be configured to access the internet. If successful, you will get the message, Wired network connection successfully set up.

If using a wireless internet connection, see pages 41-42. Select NONE if you do not have internet access.

NETWORK TEST

The unit will perform a network test. When the test is complete, a confirmation window will appear. Press the ENTER button to select "OK".

If the test fails, double-check your Ethernet cable connection, wireless router, IP settings, or contact your ISP.

MANUAL NETWORK SETUP

Link Status: If the network connection is active, "Link Up" appears below Link Status. If the network connection is not active, "Link Down" displays below Link Status.

MAC Address: This will show the MAC Address.

IP Mode: Select **Off** to disable the interface. Select **Manual** to manually configure network settings, such as IP address, subnet mask, and gateway settings. Select **Dynamic** to use the DHCP to automatically obtain the IP Address.

You can configure the IP Address, Subnet Mask, Gateway, Primary DNS and Secondary DNS, but it is not recommended unless informed to do so by your ISP provider. Press the ENTER button when confirming these options.

INFORMATION SETUP MENU:

To enter the Network Setup menu, while no disc is inserted or disc is in the Stop mode, if not already at the Setup screen press the HOME/SETUP button, select **Settings** using the Navigation (\blacktriangle , \blacktriangledown) buttons and then press the Navigation (\blacktriangleright) button. Select **Info** using the Navigation (\blacktriangle , \blacktriangledown) buttons and then press the Navigation (\blacktriangleright) button. The information on the unit, such as Software Version, Software Date, Hardware Version, etc. will appear. These items cannot be changed.

QUICK SETUP MENU:

To enter the Quick Setup menu, while no disc is inserted or disc is in the Stop mode, if not already at the Setup screen press the HOME/SETUP button, select Settings using the Navigation (\blacktriangle , \blacktriangledown) buttons and then press the Navigation (\blacktriangleright) button. Select Quick Setup using the Navigation (\blacktriangle , \blacktriangledown) buttons and then press the Navigation (\blacktriangleright) button. If you select "Yes, perform Quick Setup", you can select OSD language, Resolution and TV aspect, or select "No, thanks. I'll go through the full setup menu later" to return to the previous menu.

BD-LIVE SETUP MENU:

To enter the BD-Live Setup menu, while no disc is inserted or disc is in the Stop mode, if not already at the Setup screen press the HOME/SETUP button, select **Settings** using the Navigation (\blacktriangle , \blacktriangledown) buttons and then press the Navigation (\blacktriangleright) button. Select **BD-Live** using the Navigation (\blacktriangle , \blacktriangledown) buttons and then press the Navigation (\blacktriangleright) button.

BD-LIVE INTERNET ACCESS

This player is capable of accessing content (movie trailers, previews, etc) from the internet. This option is used to tell the BD player whether or not to allow internet access. Select the desired Internet Access option using the

Navigation (▲,▼) buttons, then press the ENTER button.

Limit Access: The internet connection will be allowed only for BD-Live contents containing a valid certificate.

Always Allow Access: Allow the inserted Blu-ray disc to access content from all BD-Live internet sites whose internet address is encoded onto the disc. There is no danger of malicious code download from valid commercial BD discs, but choosing this option and downloading BD-Live content via illegally authored BD disks, or discs obtained from questionable sources, could result in malicious code being downloaded onto the player.

Prohibit Access: Blocks the inserted Blu-ray disk from accessing BD-Live content over the internet.

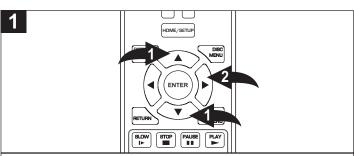
BD-LIVE STORAGE

This setting cannot be changed, it only shows the BD-Live storage device being used. You must have a USB drive inserted into the USB jack on this unit.

ERASE BLU-RAY STORAGE

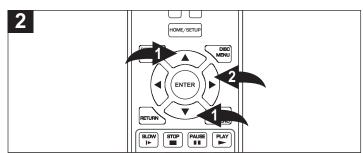
If a USB device is plugged into the USB jack, you can erase it by selecting **Erase Blu-ray Storage** using the Navigation $(\blacktriangle, \blacktriangledown)$ buttons, then press the Navigation (\blacktriangleright) button to enter. Select "OK" using the Navigation $(\blacktriangle, \blacktriangledown)$ buttons, then press the ENTER button 6 and the external USB device will be erased.

WIRELESS CONNECTION - STANDARD NETWORK



To enter the Network Setup menu, while no disc is inserted or disc is in the Stop mode, if not already at the Setup screen press the HOME/SETUP button, select Settings using the Navigation $(\blacktriangle, \blacktriangledown)$ buttons 1 and then press the Navigation $(\blacktriangle, \blacktriangledown)$ button 2. Select Network using the Navigation $(\blacktriangle, \blacktriangledown)$ buttons 1 and then press the Navigation (\blacktriangleright) button 2.

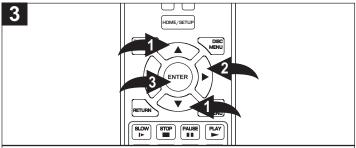
NOTE: The Wireless Setup procedure only has to be performed once. After that, the unit will automatically connect when it is turned on. If unplugged, the connection may need to be reset.



NOTE: If not connected to the internet when the unit is plugged in, you will get an error message prompting you to press the Red Color button to bring up the Wired/Wireless option.

If using a wired internet connection, see page 39.

If using a wireless internet connection: Select Wireless using the Navigation (▲,▼) buttons ④, then press the Navigation (▶) button ❷ to enter. In most cases, you can perform step 3 below to connect to an existing network. However, in some cases, you will have to connect to a wireless Network using Wi-Fi protected Setup (WPS) or a wireless Network using Manual IP Configuration. These are described on the next page.



Select **Network List** using the Navigation (\blacktriangle , \blacktriangledown) buttons \bullet , then press the Navigation (\blacktriangleright) button ② to enter; a list of available networks will appear with symbols as shown to the right. Select the desired network using the Navigation (\blacktriangle , \blacktriangledown) buttons \bullet , then press the ENTER button \circledcirc . If the Wi-Fi network name is too long to display, you can use the Navigation (\blacktriangleright) button \circledcirc to view.

If the Network is not encrypted (), and the connection is OK, a checkmark will appear and you will be connected to the internet.

NETWORK ICONS



The unit is currently connected to this network



The wireless network properties (if any) have been saved in the unit's memory for future use.



The wireless network supports WPS.



The wireless network supports 802.11b.



The wireless network supports 802.11g.



The wireless network supports 802.11n (supported at 2.4 GHz only). Not all routers are compatible with this unit.



Signal Strength.



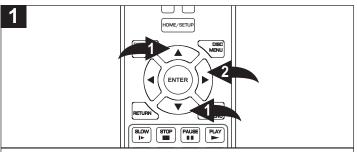
The wireless data is encrypted.



The wireless data is not encrypted.

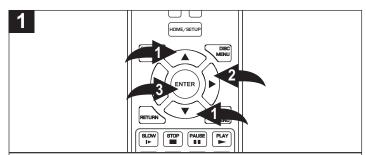
WIRELESS CONNECTION – WPS PUSHBUTTON

WIRELESS CONNECTION - WPS PIN



Repeat steps 1 and 2 from the previous page.

Select **WiFi Protected Setup (WPS)** using the Navigation $(\blacktriangle, \blacktriangledown)$ buttons ①, then press the Navigation (\blacktriangleright) button ②. Then press the WPS button on your router. When the Success screen appears, you are connected to the internet.



Repeat steps 1 and 2 from the previous page.

Select **WiFi Protected Setup (WPS)** using the Navigation $(\blacktriangle, \blacktriangledown)$ buttons \bullet , then press the Navigation (\blacktriangleright) buttons \bullet . Select **Network List** using the Navigation $(\blacktriangle, \blacktriangledown)$ buttons \bullet , then press the Navigation (\blacktriangleright) button ② to enter; a list of available networks will appear with symbols as shown on the previous page. Select the desired network using the Navigation $(\blacktriangle, \blacktriangledown)$ buttons \bullet , then press the ENTER button \odot . If using WPS Pin, then select WPS PIN using the Navigation $(\blacktriangle, \blacktriangledown)$ buttons \bullet ; press the Enter button \odot . Then enter the WPS Pin (usually found on the back of the router), and press the ENTER button \odot again.

When the Success screen appears, you are connected to the internet.

WIRELESS CONNECTION – NON-BROADCASTING USING DHCP

1

Repeat steps 1 and 2 from the previous page.

Select **Manual** using the Navigation (\blacktriangle , \blacktriangledown) buttons, then press the Navigation (\blacktriangleright) button; the manual setup box will appear.

Select **AdHoc** using the Navigation (\blacktriangle , \blacktriangledown) buttons, then press the Navigation (\blacktriangleright) button. Select On or Off depending on the AdHoc property of the non-broadcasting network) using the Navigation (\blacktriangle , \blacktriangledown) buttons, then press the ENTER button.

If the non-broadcasting network is using encryption, select **Encryption** using the Navigation (\blacktriangle , \blacktriangledown) buttons, then press the Navigation (\blacktriangleright) button. Select the Encryption type used using the Navigation (\blacktriangle , \blacktriangledown) buttons, then press the ENTER button.

Select the Name field using the Navigation (\blacktriangle , \blacktriangledown) buttons, then press the ENTER button to access the keyboard. Carefully enter the network name, which is most likely casesensitive. Repeat to enter the password.

Select **Connect** using the Navigation (\blacktriangle , \blacktriangledown) buttons, then press the ENTER button; the manual setup box wil appear. If the parameters have been set properly and the wireless network is functioning, you should get the Success screen and be connected to the internet.

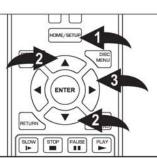
If you would like to disconnect from the internet, select **Disconnect** at this screen.

NOTE: In any of the settings, you can select IP Settings to view/change the IP settings. This is not recommended unless instructed to do so by your ISP provider.

USING THE APPLICATIONS

NETFLIX

1



Please make sure the following criteria is met:

- 1. No disc is inserted or disc is in the Stop mode
- 2. The unit is connected to the internet (see pages 39-40)
- 3. You are signed up for NetFlix (or you can sign up online or via this unit)

Press the HOME/SETUP button **①**, select **Connected** using the Navigation (▲,▼) buttons **②** and then press the Navigation (►) button **③**.

Select NetFlix using the Navigation (▲, ▼) buttons ② and then press the Navigation (►) button ③.

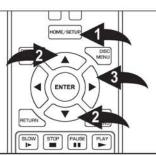
Activate your account and then enjoy your movies/shows!

NOTE: Only HDMI output is available when NetFlix function is in use.

Many of the buttons (Skip, Search Reverse/Foward, Stop, Play and Pause) will work with these applications. You can also press the HOME/SETUP button to return to the Home screen.

PANDORA

1



Please make sure the following criteria is met:

- 1. No disc is inserted or disc is in the Stop mode
- 2. The unit is connected to the internet (see pages 39-40)
- 3. You are signed up for Pandora (or you can sign up online or via this unit)

Press the HOME/SETUP button **①**, select **Connected** using the Navigation (▲,▼) buttons **②** and then press the Navigation (▶) button **③**.

Select Pandora using the Navigation (▲, ▼) buttons ② and then press the Navigation (►) button ③.

If you are a member, select I have a Pandora Account (or select I am new to Pandora to sign up). You will then be instructed on how to go to your computer to activate the Pandora account to work with this unit.

After activating, you can now enjoy music from Pandora on their website.

NOTE: Many of the buttons (Skip, Search Reverse/Foward, Stop, Play and Pause) will work with Pandora. You can also press the HOME/SETUP button to return to the Home screen.

UPDATING THE FIRMWARE

UPDATING THE FIRMWARE

Follow these steps to update the Firmware:

- 1. To enter the System Setup menu, while no disc is inserted or disc is in the Stop mode, press the HOME/SETUP button, select Settings using the Navigation (▲, ▼) buttons and then press the Navigation (▶) button.
- 2. Select **System** using the Navigation (▲, ▼) buttons and then press the Navigation (▶) button.
- 3. If connected to the internet, select **Update Via Network** using the Navigation (▲,▼) buttons, then press the Navigation (▶) button. The unit will then look for firmware updates that will improve performance or add features to your unit. Start the firmware update process by pressing the ENTER button.

TROUBLESHOOTING GUIDE

Check the following before requesting service:

SYMPTOM	POSSIBLE CAUSE	POSSIBLE SOLUTION
GENERAL		
No power.	AC cord unplugged.	Plug in the AC cord to an AC outlet.
Power on, but unit not functioning properly.	Condensation has formed.	Unplug the unit and wait about one to
		two hours to allow the player to dry.
	Wrong type of disc inserted.	This unit cannot play discs other than
		those listed on page 16.
	Unit needs to be reset.	Press the Power button, then unplug
		the power cord. Wait one minute and
		then plug the unit back in.
	T. F F	
	The disc is dirty or inserted incorrectly.	Clean disc and insert label side-up.
	Some features and functions are not	This is normal; try another function.
N	available on all discs.	
No picture.	The equipment is not connected properly.	Connect the equipment according to
	The INIDIAT of the TV/ is not and to see its	the instructions in this manual.
	The INPUT of the TV is not set to receive	Select the appropriate video input
	the disc signal output.	mode, usually VIDEO or AV.
	The video cables are not securely	Connect the video cables securely.
	connected.	Trans the TV are
N	The connected TV power is off.	Turn the TV on.
No sound.	The equipment is not connected properly.	Connect the equipment according to
	The consistence of accordant with the condi-	the instructions in this manual.
	The equipment connected with the audio	Select the appropriate audio input
	cable is not set to receive the disc signal	mode.
	input.	Connect the guide cobles accuraly
	The audio cables are not securely	Connect the audio cables securely.
	connected. The connected receiver's power is off.	Turn the audio receiver on.
Playback picture rolls.	Unit is incorrectly set to PAL.	Set unit to NTSC.
The playback picture is poor.		Clean the disc.
The Search feature is not working.	The disc is dirty. Some discs have sections that do not	This is normal on some discs.
The Search leadure is not working.	allow searching.	This is normal on some discs.
The picture is not fitting properly.	Wrong menu option is selected in the	Select the correct TV Screen (16:9 Wide,
The plotare is not litting properly.	Setup menu.	16:9 Pillarbox, 4:3 Pan&Scan, 4:3 Letterbox).
The remote control is not working.	The batteries are weak or dead.	Install fresh batteries.
The remote control is not working.	The batteries are not installed properly.	Install batteries according to the diagram.
	The remote is not aimed at the sensor.	Aim the remote at the sensor.
	Distance is too far or there is too much	Operate within 20 ft., or reduce the light
	light in the room.	in the room.
	There is an obstacle in the path of the	Remove the obstacle.
	beam.	
The Preferences menu cannot be	There is a disc in the disc tray.	Remove the disc from the disc tray, as
accessed (it is dimmed) in the		there cannot be a disc inserted when
Setup menu.		setting the preferences.

TROUBLESHOOTING GUIDE (CONTINUED)

SYMPTOM	POSSIBLE CAUSE	POSSIBLE SOLUTION
DISCS		
The unit does not start playback.	Disc not inserted, or inserted upside-down.	Insert disc correctly.
	A non-playback disc is inserted.	Make sure to insert a playable disc as shown on page 16.
	The disc is not placed in the guide.	Place the disc on the disc tray correctly inside the guide.
	The disc is dirty.	Clean the disc.
Some functions do not operate as stated.	Some features and functions are not available on all discs.	This is normal; try another function.
Selected language is not being shown in the subtitles, or spoken.	If the audio or subtitle language does not appear on the disc, then the initial setting will not be seen/heard.	This is normal; try another disc.
Subtitles are not working properly.	Subtitles appear only when the discs contain them.	This is normal; try another disc.
	Subtitles are not turned on.	Turn the subtitles on.
Angle cannot be changed.	Angles may not be recorded on the disc (see disc jacket/case), or they may only be recorded on certain scenes.	Try another disc, or wait for a scene which allows a different camera angle.
TV display shows "No Signal" or is blank.	Some TVs do not support 1080i/1080p output.	The TV does not support 1080i/1080p output; Connect Video Out as shown on page 11.
	Unit is set to wrong resolution.	Press TV RES button to cycle settings until picture displays.

TROUBLESHOOTING FOR THE INCLUDED APPLICATIONS

If you receive an error or are having problems with one of the applications (Netflix or Pandora), please check their web site for troubleshooting after making sure the obvious is taken care of (internet connection is OK, unit is turned on, you have an account with the application you are attempting to utilize, etc.)

TROUBLESHOOTING FOR BD-LIVE

If you receive an error stating you do not have enough storage space for a download, connect the media to your computer and remove some of the files, completely erase the media (see page 40) or insert different media with enough storage.

If you receive an error while downloading, try the following:

The BD-Live server may be busy or may not be in service. Please try downloading your content again at another time.

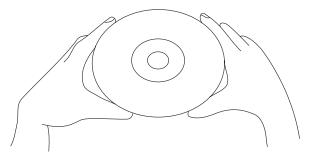
FOR ADDITIONAL SET-UP OR OPERATING ASSISTANCE, PLEASE VISIT OUR WEBSITE AT: WWW.MEMOREX.COM

FOR CONSUMER REPLACEABLE PART(S), VERIFY PART NUMBER(S) ON PAGE 7, AND THEN CONTACT OUR PARTS AND ACCESSORIES FULFILLMENT CENTER AT 1-800-379-8439.

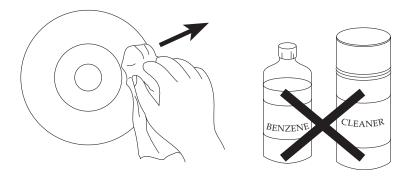
CARE AND MAINTENANCE

Caring for Discs

• Treat the disc carefully. Handle the disc only by its edges. Never allow your fingers to come in contact with the shiny, unprinted side of the disc.



- Do not attach adhesive tape, stickers, etc. to the disc label.
- Clean the disc periodically with a soft, lint-free, dry cloth. Never use detergents or abrasive cleaners to clean the disc. If necessary, use a CD cleaning kit.
- · If a disc skips or gets stuck on a section of the disc, it is probably dirty or damaged (scratched).
- When cleaning the disc, wipe in straight lines from the center of the disc to the outer edge of the disc. Never wipe in circular motions.



- · Discs should be stored in their cases after each use to avoid damage.
- Do not expose discs to direct sunlight, high humidity, high temperatures or dust, etc. Prolonged exposure or extreme temperatures can warp the disc.
- · Do not stick or write anything on either side of the disc. Sharp writing instruments, or the ink, may damage the surface.

Cleaning the Unit

- To prevent fire or shock hazard, disconnect your unit from the AC power source when cleaning.
- The finish on your unit may be cleaned with a dust cloth and cared for as other furniture. Use caution when cleaning and wiping the plastic parts.
- Mild soap and a damp cloth may be used on the front panel.

SPECIFICATIONS

Power Consumption Weight Dimensions Weight and dimensions are approximated operating Temperature	
Format	
• •	BD-ROM/BD-R/BD-RE/DVD-ROM/DVD-R/DVD+R/DVD-RW/DVD+RW/
	CD-ROM/CD-R/CD-RW/CDDA/DTS-CD
	MPEG 2/MPEG2 HD/MPEG4 AVC/H.264/VC-1/
	V9 up to 320x132 at 30 fps/WVC1 up to 1280x720 at 24 fps (5300 Kbps)
	JPG, PNG
	MP3, WMA
USB version	
Video Output	
	(75Ω Load) 1 channel: 1.0 Vp-p
•	Blu-ray: 480i
	DVD: 480i
Component	(75Ω Load) Y: 1.0Vp-p, Pr: 0.70Vp-p, Pb: 0.70Vp-p
	Blu-ray: 1080i
	DVD: 1080i
Audio/Video Output	
Audio Output	Ontical/Cooxial
·	
	95dB
_	
Wi-Fi	
	IEEE 802.11n, IEEE 802.11g, IEEE 802.11b
	2.400 ~ 2.484GHz (subject to local regulations)
-	WEP-64/128 bit, WPA, WPA-PSK, WPA2, WPA2-PSK,
	Support WPS configuration

Specifications are subject to change without notice.

MPE caution

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation.

To ensure compliance, operations at closer than this distance is not recommended. The antenna used for this transmitter must not be co-located in conjunction with any other antenna or transmitter.