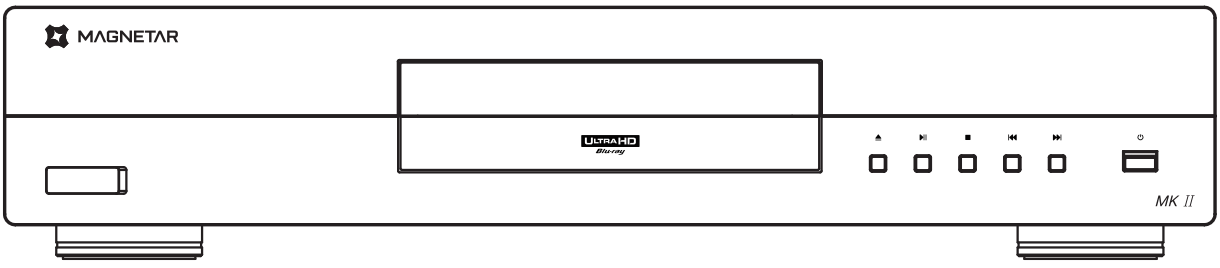
MAGNETAR

Ultra HD Blu-ray Disc™ Player

User Manual

Model: UDP800 MKII



ULTRA HD Blu-ray™ Blu-ray 3D™ dts-HD Master Audio HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE Dolby VISION Dolby AUDIO

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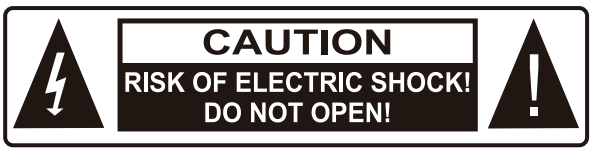
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Important Information



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



The triangular arrow-headed lightning flash icon signifies that inside the product, there is uninsulated “dangerous voltage”, which readily causes electric shock.



The triangular icon with an exclamation mark purports to remind users that important operating and maintenance (repair) instructions are hereby introduced.

Caution:

To avoid fire or electric shock, please don’t expose this product to rain or humid environment. Inside the product, high voltage exists. Don’t open the casing. Please have the product maintained by a professional.
Avoid splashing water on this product. Don’t place any object containing liquid (e.g. vase) on this product.

Important Safety Instructions

1. Read all instructions before operating this product. Retain these instructions for future reference. Heed all warnings and follow all operating instructions.
2. Do not expose this product to rain, moisture, dripping, or splashing. Do not place objects filled with liquids, such as vases, glasses, or containers, on or near the unit.
3. Do not install the player near heat sources such as radiators, heat registers, stoves, power amplifiers, or other equipment that produces heat.
4. Ensure adequate ventilation at all times. Do not block ventilation openings. Install the product only in accordance with Magnetar’s instructions.
5. Do not place the player on unstable surfaces. Use only carts, stands, brackets, or tables recommended by Magnetar.
6. Protect the power cord from being walked on, pinched, or sharply bent, particularly at plugs, convenience receptacles, and the point where the cord exits the product.
7. Unplug the player during lightning storms or when it will not be used for extended periods of time.
8. Refer all servicing to qualified service personnel. Servicing is required when the player has been damaged in any way, including damage to the power cord or plug, liquid spilled or objects fallen into the unit, exposure to rain or moisture, abnormal operation, or if the product has been dropped.
9. Please avoid trampling on or extruding the power cord, especially plug, socket and outgoing parts of this product.



10. Please do use parts and accessories designated by the manufacturer.
11. Please don’t put this product on an insecure cart, pedestal, tripod, support or workbench. Please be careful in using a cart, in order not to be injured for overturn of the cart or this product.
12. Do not expose batteries (battery packs or assembled batteries) to sunlight, fire sources or overheated environment.

Notes:

- Incorrect battery installation might cause an explosion hazards. Only use batteries of the same or equivalent type.
- This product contains a laser. Any control, adjustment, or operation not performed in accordance with this manual may expose you to harmful radiation. Do not open the cover or attempt repairs yourself; all servicing must be performed by qualified service personnel only..

CLASS 1 LASER PRODUCT

Precautions

Power Supply

Connect this product only to the power supply type indicated on the rear panel. If you are unsure of the local power supply, consult your dealer or local power company.

Always use a grounded power plug for this appliance. Unplug the product from the power outlet if it will not be used for an extended period.

Placement

Avoid installing the player in locations exposed to direct sunlight, excessive dust, high humidity, vibration, or strong magnetic fields.

Ensure adequate ventilation: maintain a 4-inch (10 cm) clearance on all sides and rear of the unit. Do not place it on soft surfaces (sofa, bed, carpet).

Condensation

Moisture condensation may form inside the player if it is moved between extreme temperature environments. If condensation occurs, leave the player powered on (without a disc inserted) for 1–2 hours to allow moisture to evaporate.

Handling

Do not touch the optical lens. Do not insert foreign objects into the disc tray or ventilation openings.

Accessories

Please check if the following accessories are contained in the package of this player:


User Manual


Power Cable


Remote Control
With AAA batteries

Trademark Notices

- DVD Logo is a trademark of DVD Format / Logo Licensing Corporation.
- The Blu-ray Disc™, Blu-ray™, Blu-ray 3D™, BD-Live™, BONUSVIEW™, Ultra HD Blu-ray™ word marks and logos and the 4K Ultra HD™ logo are trademarks of the Blu-ray Disc Association.
- Manufactured under license from Dolby Laboratories. Dolby, Dolby Vision, Dolby Audio, and the double-D sy mbol are trademarks of Dolby Laboratories Licensing Corporation.
- Manufactured under license from Dolby Laboratories. Dolby, Dolby Vision, Dolby Audio, and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.
- For DTS patents, see http://patents.dts.com. Manufactured under license from DTS Licensing Limited. DTS, DTS-HD, the Symbol, & DTS and the Symbol together are registered trademarks, and DTS-HD Master Audio is a trademark of DTS, Inc. © DTS, Inc. All Rights Reserved.
- Oracle, Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.
- The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI trade dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

Cinavia Notices

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

Message	Cinavia Message Code
[Message(s) 1]	1
[Message(s) 2]	2
[Message(s) 3]	3
[Message(s) 4]	4

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

IPR Message

Copyright 2004-2013 Verance Corporation. Cinavia™ is a Verance Corporation trademark. Protected by U.S. Patent 7,369,677 and worldwide patents issued and pending under license from Verance Corporation. All right reserved.

⚠ **CAUTION:** This product utilizes a laser.
Do not open cover and do not repair yourself. Refer servicing to qualified personnel.

Types of Compatible Discs

Logo	Features	Manual Icon
ULTRA HD Blu-ray Blu-ray Disc Blu-ray 3D	BD: Compatible with 4K Blu-ray discs and Blu-ray discs containing BONUS VIEW and BD-Live content, including Blu-ray 3D discs. Displays with 3D functions and 3D goggles are necessary for 3D playing. Also compatible with single-layer and double-layer BD-R/RE discs.	
DVD VIDEO	DVD: Compatible with DVDs and DVD±R/RW discs issued for commercial purposes.	
SUPER AUDIO CD	SACD: High-resolution stereo or multi-track audios. Notes: Some SACDs use mixed formats with CD and high-resolution DSD layer.	
COMPACT disc DIGITAL AUDIO	CD: Compatible with standard red-book CD and CD-R/RW.	

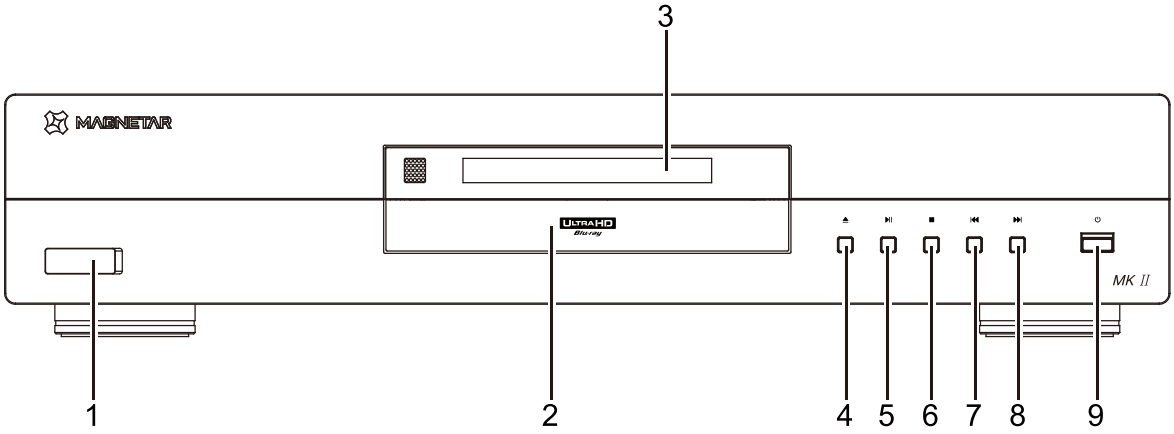
Storage and Maintenance of Compact Discs

1. Keep compact discs tidy and avoid scratching compact discs or leaving fingerprints on compact discs.
2. To take a compact disc, please hold its edge, and please don't touch its recording side.
3. Blu-ray discs record data based on polarity density, and recording layer is very close to surface of the compact disc. Hence, compared with DVD, Blu-ray discs are more sensitive to dust and fingerprints. If you encounter any problems on playing and discover any stain on a disc, please tidy the disc up using clean cloth. Please clean the disc from the center outwards along the ray. Please don't clean them by drawing circles.
4. Please don't use disc cleaning spray or solution like benzene, diluent or anti-static spray.
5. Please don't stick labels or stickers to compact discs. Otherwise, the discs will warp or be too thick. As a result, problems will occur during playing and the discs will be stuck.
6. Don't have compact discs directly exposed to sunlight or put them near heat sources.
7. Please don't use the following compact discs:
   - The compact discs with glue left by stickers or labels might be stuck inside players;
   - The compact discs which warp or crack
   - The compact discs in irregular shapes, including heart-shaped or business card-shaped compact discs.

Product Installation Guide

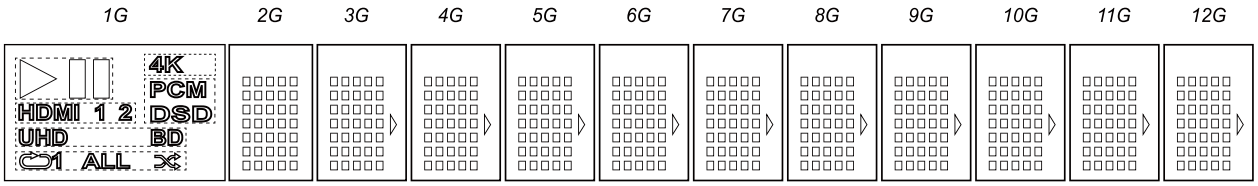
Front Panel Overview

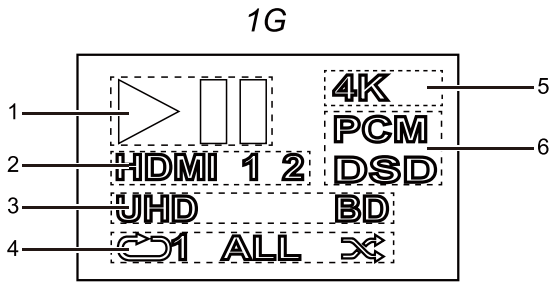
The front panel provides essential system controls and status indication. The front panel display provides information such as disc type, playback status, elapsed time, and system messages.



1. USB Input
2. Disc Tray
3. Display Window
4. Open/Close
5. Play/Pause
6. Stop
7. Previous
8. Next
9. Power Button

Display Window of Front Panel

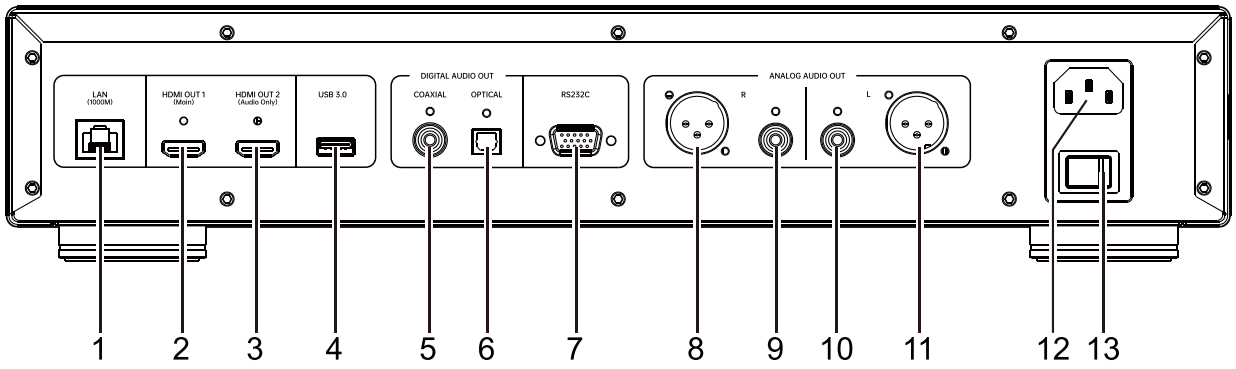




1. Playback Status.
2. HDMI Connection Status.
3. Disc Information.
4. Playback Mode.
5. HDMI 4K Output Resolution
6. Digital Audio Output Format
7. 2G - 12G Main Display Area.

Rear Panel Overview

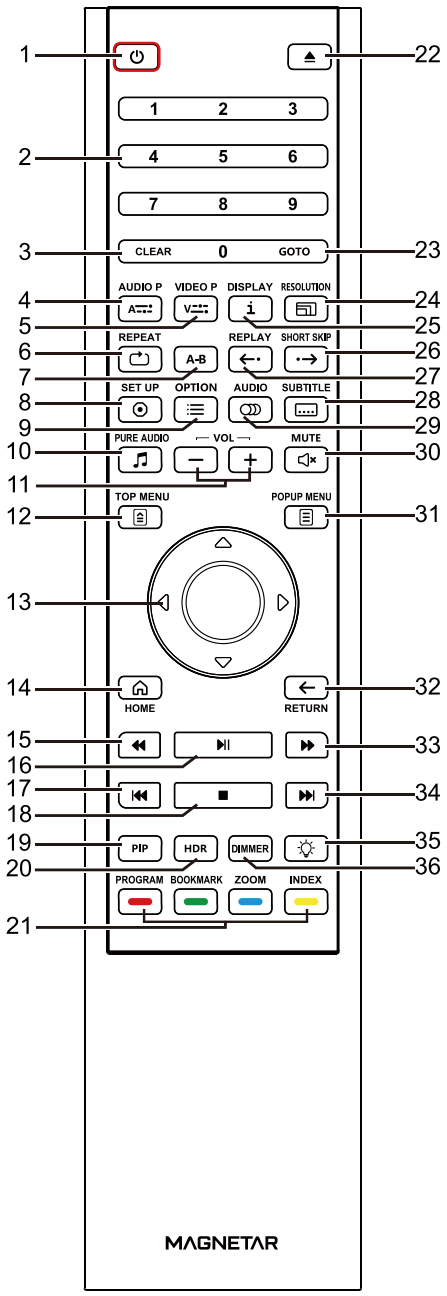
The rear panel provides comprehensive connectivity for both audio-only and full home cinema systems. Please ensure the player is powered off and disconnected from AC power before making or changing connections.



1. Ethernet LAN Port
2. HDMI Output (Main)
3. HDMI Output (Audio Only)
4. USB 3.0 Port
5. Coaxial Digital Audio Output
6. Optical Digital Audio Output
7. RS-232 Control
8/11. Balanced Stereo Audio Outputs
9/10.Unbalanced RCA Analog Audio Outputs
12. AC Power Inlet
13. Power Switch

Remote Control Overview

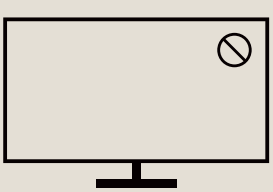
The supplied remote control provides full access to playback, navigation, and setup functions.



1. Power and standby control
2. Numeric Keypad: Enters numerical values
3. Clear: Clear numeric inputs
4. Audio adjustment: Fine-tunes audio output parameters
5. Vedio adjustment: Fine-tunes video output parameters
6. Repeat: Enables repeat playback.
7. A-B repeat: Repeats playback of a selected segment (A to B).
8. Setup: Open the setting menu of the player
9. Option: Current option menu will pop up
10. Pure tone: Turns off HDMI video output (Audio-only mode)
11. Volume +/-: Increases / Decreases the volume
12. Disc menu: Display the menu of Blu-ray discs or title menu of DVD discs
13. Direction Button: Navigates menu selection
14. Homepage: Return to the main menu
15. Rewind: Performs fast backward playback
16. Play/Pause: Start /pause playing
17. Previous: Skip to previous
18. Stop: Stop playing
19. Picture-in-picture
20. HDR: Choose the output mode for high dynamic range
21. Color Button: Function varies by content
22. OPEN: Open/close the disc tray
23. Search: Jump to a certain position and start playing
24. Resolution: Switch HDMI output resolution
25. Information: Display/hide information displayed on the screen
26. Shot skip: Jump to a time point after 30s for playing
27. Replay: Jump to a time point before 10s for playing.
28. Subtitle: Choose subtitle language
29. Audio: Change audio language or channel
30. Mute: Mute audio
31. Popup menu: Display popup menu of a Blu-ray disc or DVD menu
32. Return: Return to the previous menu
33. Fast-forward: Play fast forward
34. Next: Skip to the next
35. Backlight: Turn on/off backlight of the remote control Button
36. Dimmer: Modulate display luminance of the front panel

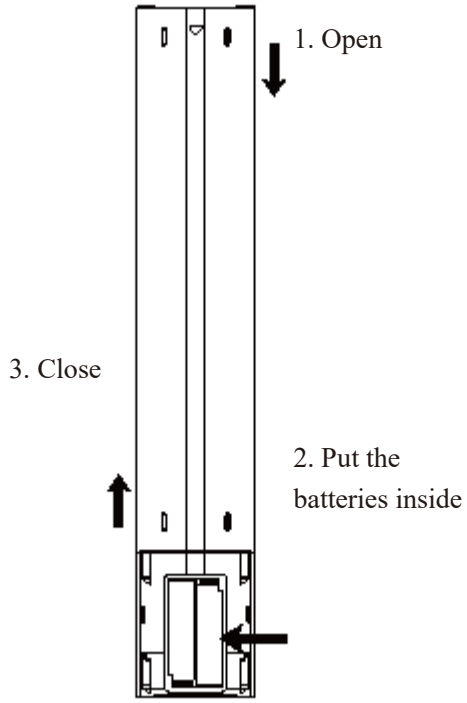
Notes

If a function is unavailable when a Button is pressed, a circle with a slash will be displayed on the screen:

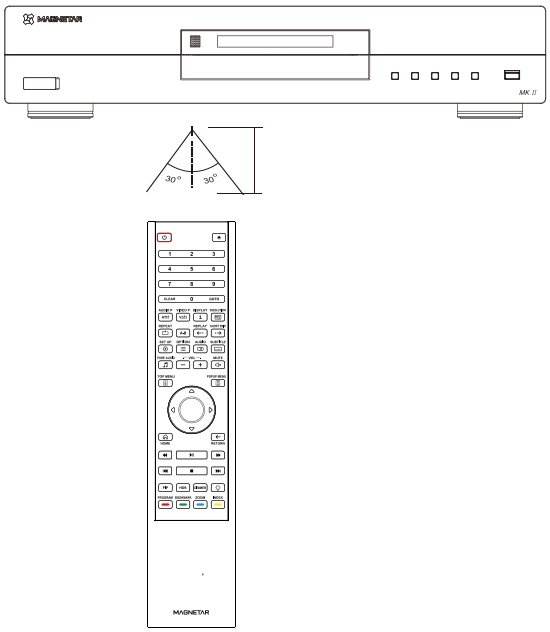


Battery Installation

1. Open the lid
2. Put the batteries inside
   Align battery anode (+) and cathode (-) with the positions indicated inside the casing.
3. Close the lid



Use of Remote Control

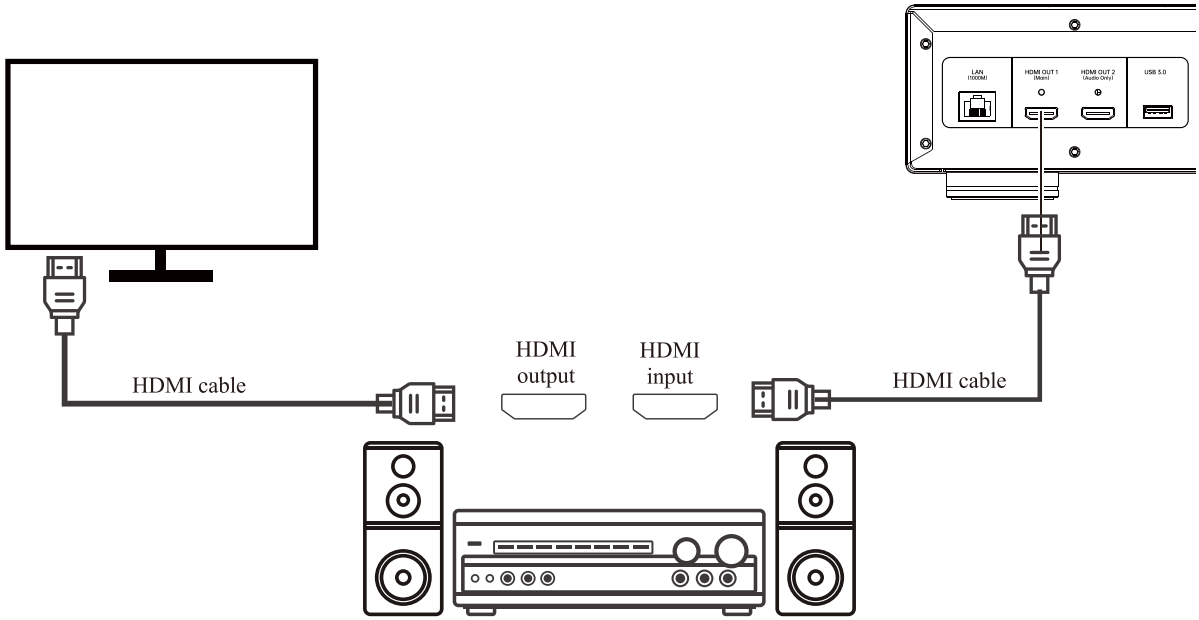


Caution

- Never drop the remote control or expose it to moisture.
- Never expose the infrared remote sensor on the front panel to direct sunlight or other strong light sources.
- Remote may not operate consistently when batteries become low. Replace them if operation deteriorates.
- If the remote control will not be used for a long time, please remove the batteries.
- Use the batteries correctly to avoid possible leakage and corrosion. Do not leave the batteries exposed to direct sunlight or in a high temperature environment for a long period of time. Do not heat or expose to flame. Do not mix old and new batteries. Do not use batteries of different types at the same time. Do not attempt to recharge the batteries.
- If battery leakage occurs, do not touch the liquid with bare hands. Wipe out any liquid inside the battery compartment, and insert new batteries.

Common Connections

Connecting to an A/V Receiver via HDMI



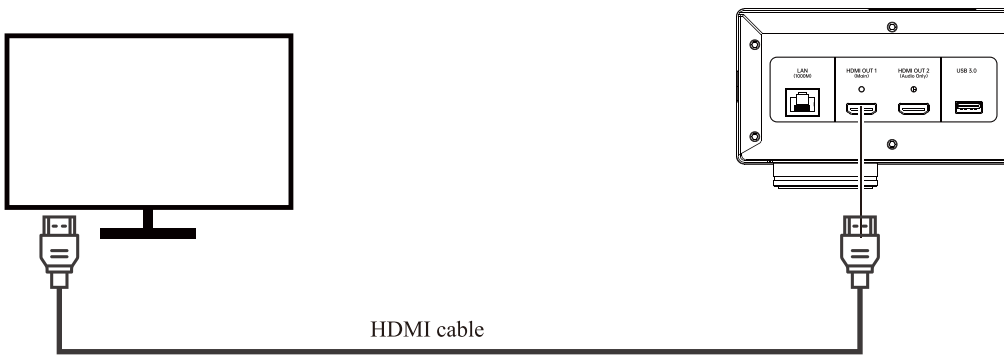
Connect the HDMI Main output to a receiver using a certified High Speed HDMI cable. The receiver's HDMI output can then be connected to your TV to transmit the video signal.

Some receivers include both HDMI 2.0 and HDMI 1.4 ports. For proper 4K UHD playback, connect the player to a 4K UHD TV input port compatible with HDMI 2.0 and HDCP 2.2.

Notes

- HDMI simultaneously transmits audio and video from the player to a display device. Please note that HDMI standards are evolving, and compatibility issues may arise. The receiver must support HDMI audio input. Some receivers provide HDMI for video switching only. If your receiver does not support audio input, refer to the alternative connection methods described below.
- For Blu-ray Disc playback, we recommend using receivers with Dolby TrueHD and DTS-HD Master Audio decoding capabilities, compatible with HDMI v1.4.
- For 4K Blu-ray Disc playback, use receivers compatible with HDMI 2.0 and HDCP 2.2 or later. We recommend using a Premium High-Speed (18Gbps) HDMI cable to ensure reliable playback of 4K UHD video.
- The player supports a wide range of formats, from the latest object-oriented surround sound codecs to decoding formats, including Dolby Atmos and DTS:X.
- Please check your receiver's specifications to ensure these requirements are met.

Connecting to a TV via HDMI



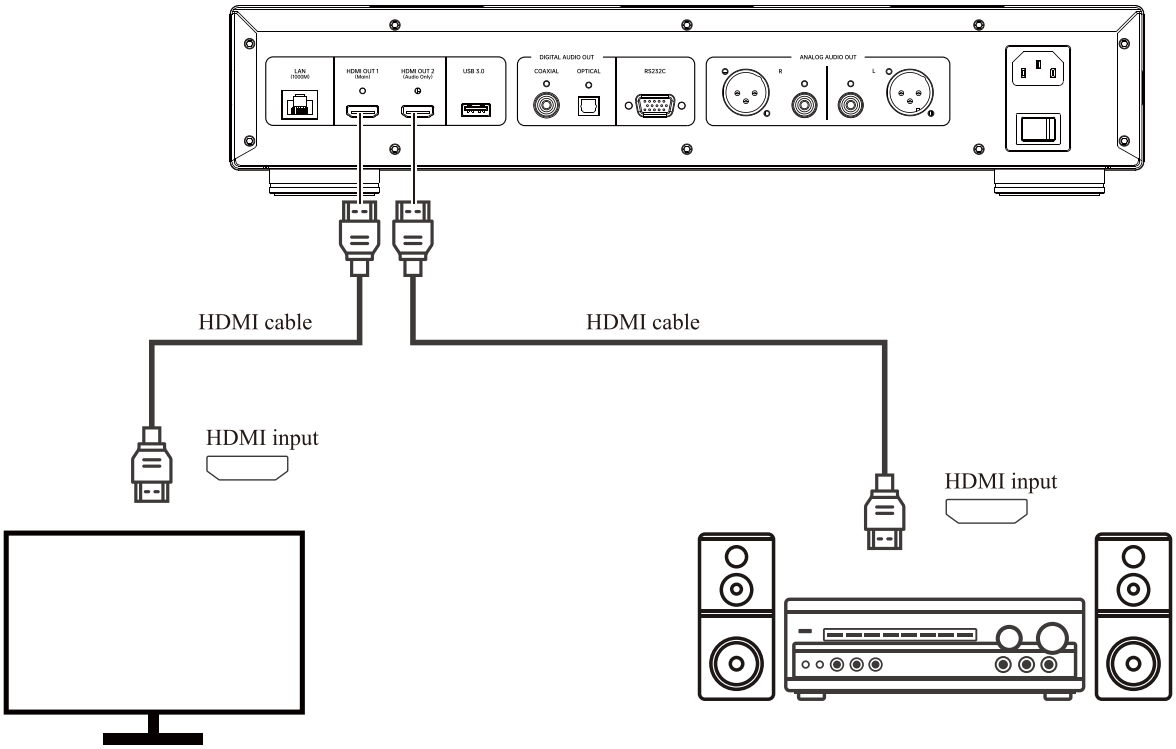
Connect the player's HDMI OUT (Main) port to your TV using an HDMI cable. This connection transmits pure digital video and audio signals simultaneously.

For proper 4K UHD playback, connect the player to a 4K UHD TV input port compatible with HDMI 2.0 and HDCP 2.2.

Notes

- Audio is output through the TV's built-in speakers with this connection. For optimal sound quality, transmit audio from the player to an A/V receiver with external speakers.
- Please use a 4K TV compatible with HDMI 2.0 and HDCP 2.2 to ensure normal playback of 4K Blu-ray Discs and other 4K content.
- Please use an HDR compatible TV to view HDR content.
- Please use a Premium High-Speed (18Gbps) HDMI cable to ensure reliable playback of 4K 60Hz video content.
- Do not connect the HDMI OUT (Audio Only) output to your TV.

Connecting to a TV and an A/V Receiver via Dual HDMI



Dual HDMI Connection guarantees high-bitrate audio while delivering the highest video quality and resolution.

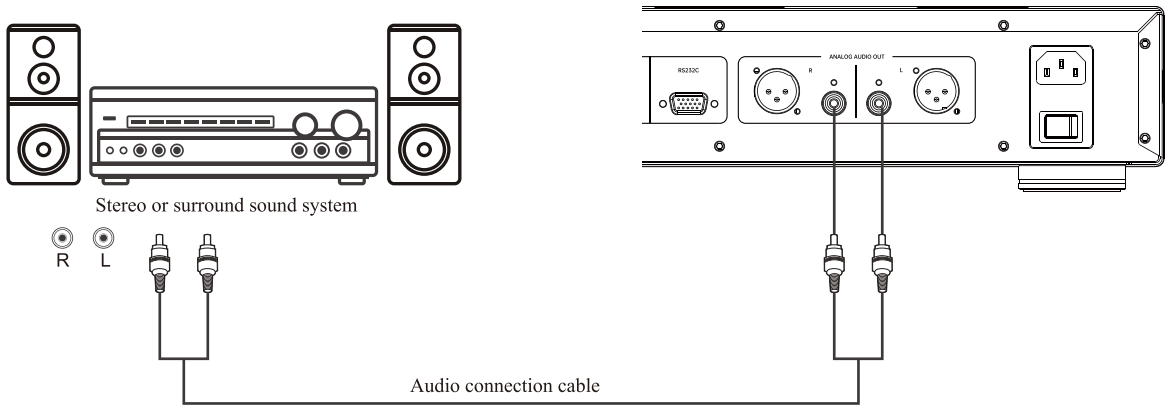
Connect the HDMI OUT (Main) port to your TV via an HDMI cable, and the HDMI OUT(Audio Only) port to your receiver via a second HDMI cable.

This configuration is recommended if your display supports 3D or 4K, but your receiver does not. Video signals (3D/4K) are sent directly to the TV, while audio signals are routed to the receiver.

Notes

- Please refer to the HDMI connection instructions.
- If your receiver does not support HDMI audio input, please use alternative connection methods.

Connecting to a Stereo System via RCA

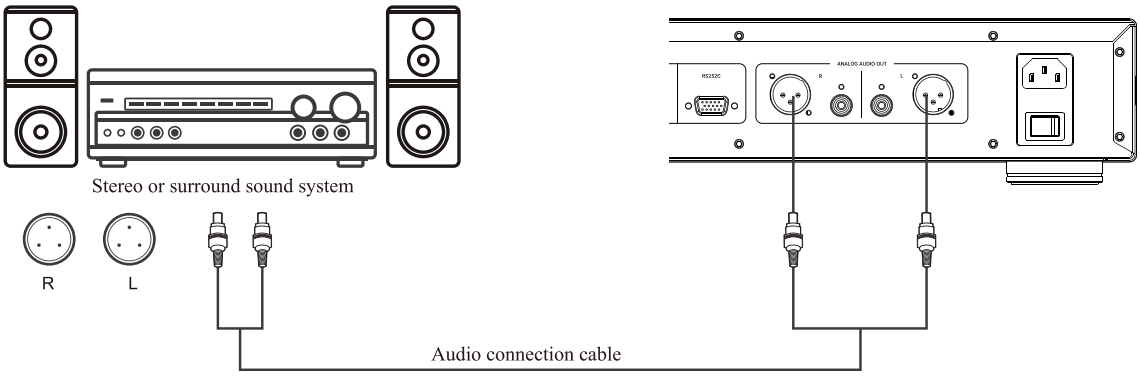


Use the unbalanced RCA outputs to connect the player to preamplifiers, integrated amplifiers, or AV receivers equipped with analog inputs. These outputs are optimized for low noise and consistent performance.

Notes

- The STEREO AUDIO OUT terminals automatically down-mix the multi-channel audio source into the stereo signals.

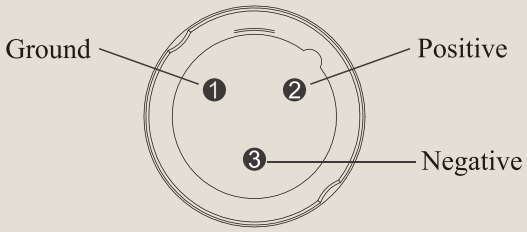
Connecting to a Stereo System via XLR



Use an XLR3 balanced audio cable to connect the XLR outputs to your stereo system. The XLR port on this player is a male terminal.

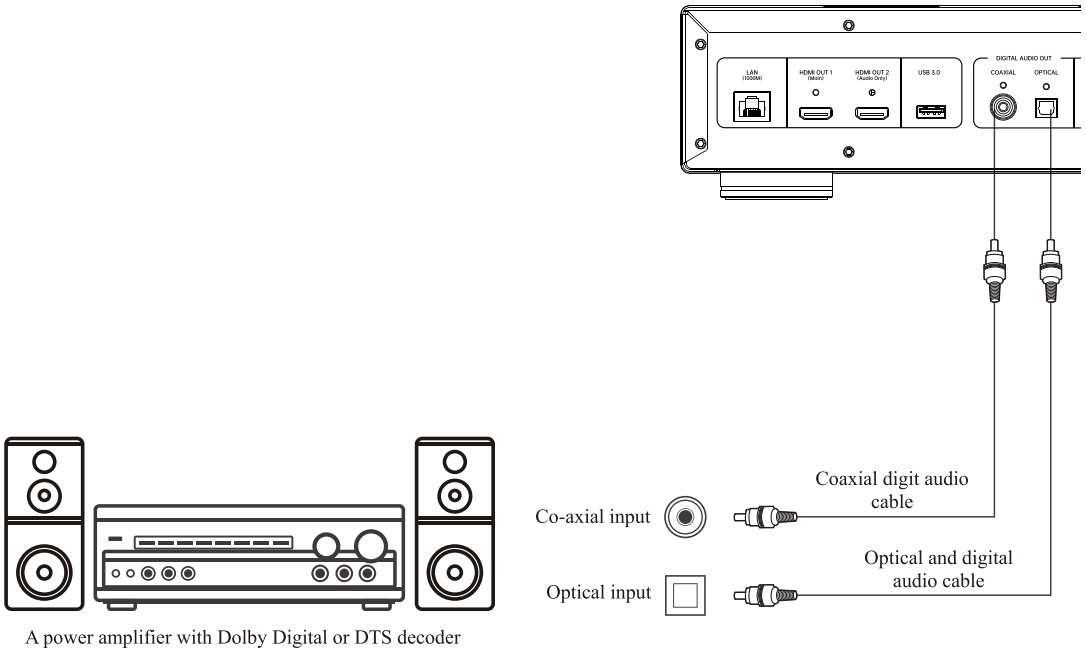
Notes

- The XLR outputs is commonly used for specialized electronic audio devices, including high-quality microphones and inter-device cable connections.
- The player uses an XLR port (as shown in the figure below) to transmit a pair of differential signals (positive/negative). The back-end circuitry cancels common-mode noise and enhances signal integrity by comparing the voltage difference between this pair of signals.



The player uses male XLR terminal

Connecting to an A/V Receiver or Amplifier via S/PDIF



A power amplifier with Dolby Digital or DTS decoder

The player provides both coaxial and optical digital audio outputs.

- Coaxial Digital Output
- Optical Digital Output

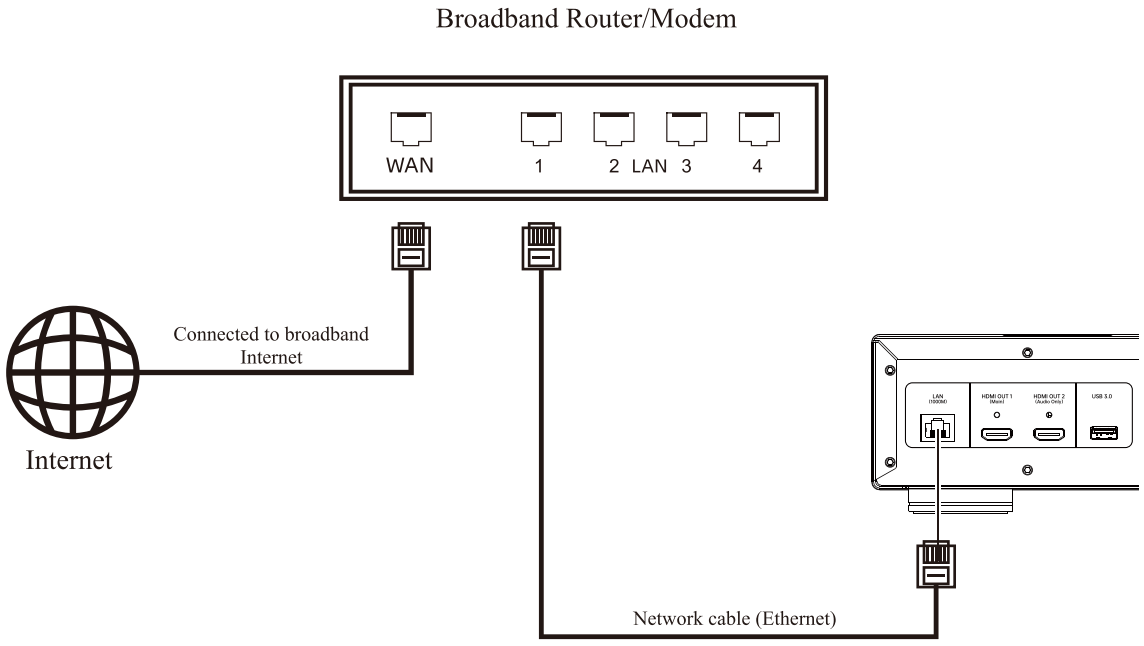
These outputs may be used to connect external digital-to-analog converters or AV receivers. Due to interface bandwidth limitations, some high-resolution audio formats may be downmixed or unavailable when using digital outputs.

Notes

- Due to bandwidth limitations, high-resolution audio formats such as Dolby Digital Plus, Dolby TrueHD, DTS HD High Resolution, and DTS HD Master Audio cannot be output via coaxial or optical cables. These tracks will be replaced with lower-resolution versions. For best performance, use HDMI to connect your AV receiver if it supports HDMI audio input; otherwise, use multi track analog output.
- Due to copyright restrictions, SACD and DVD Audio high resolution audio cannot be transmitted via coaxial or optical outputs. To enjoy these formats, use HDMI or analog audio connections.

Network Connection

The player supports network playback via NFS, DLNA, and SAMBA/CIFS. Connect the Ethernet (LAN) port to a router or network switch using a standard Ethernet cable.



A wired Ethernet connection is recommended for:

- Network-based media playback
- BD-Live functionality
- Firmware updates

Network performance depends on local network configuration and bandwidth.

Notes

The LAN port of this player may only be connected to an Ethernet port compliant with the 1000BASE-T, 100BASE-TX or 10BASE-T standard. Connecting to other ports will cause damages to the player.

USB Connection

USB Storage Devices

USB ports allow connection of USB storage devices for playback of compatible media files.
For best results:

- Use USB storage devices formatted in supported file systems
- Avoid connecting multiple USB devices simultaneously
- Do not remove USB devices during active playback

Power Connection

Connect the supplied AC power cord to the AC power inlet on the rear panel, then connect the cord to a wall outlet.

Ensure the voltage of the power supply matches the rating indicated on the rear panel before powering on the player.

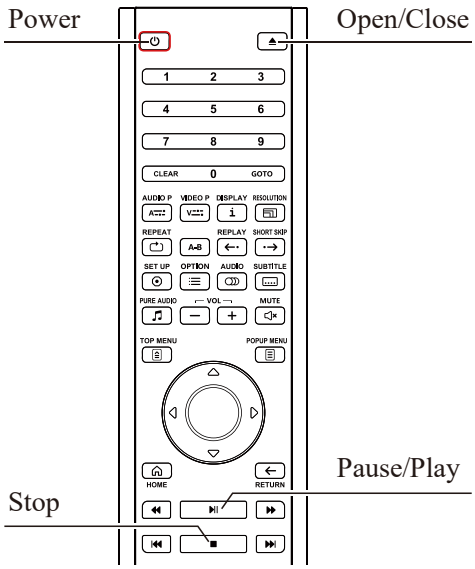
BD-Live

Titles of certain Blu-ray discs have functions of BD-Live (Blu-ray interactions). BD-Live provides extra downloadable content and additional online interactive programs. The BD-Live content also varies with discs and publishers. They might include extra captions, comments, movie trailers, games and online chat. Only if the player is connected to the broadband Internet can it play BD-Live content.

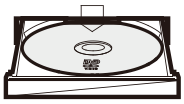
BD-Live content is represented in different forms dependent upon manufacturers' organization of the content. For instance, start downloading BD-Live content at the start time of playing, and BD-Live will be optional on the main menu of the disc. Reminders will be displayed to ask you if you need to start downloading, and inquire you if you have to register membership or an account. Please enjoy the BD-Live content based on disc instructions.
Your Internet connection speed and capacity of BD-Live content server will affect download speed of the BD-Live content. If you find that download is slow or playing is intermittent, you'd better only play contents of the disc without using the BD-Live function, or try again at some other time. When you use the BD-Live function, your player ID, compact disc and IP (Internet protocol) address would be sent to the content provider through the Internet. Generally, no information on personal identity will be sent. Instead, there are really certain technologies which will match your IP address with certain geographical areas or service providers. Therefore, your Internet service provider is able to know who is using a certain IP address. If the BD-Live content provider requires you to log in with membership qualification or an account, it will be able to obtain information about your membership qualification or account. Please confirm with your Internet service provider and BD-Live content provider about their privacy policies.
You can restrict the access to the BD-Live network by setting menu of the player.

Basic Operations

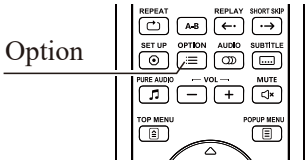
Disc Playback



1. Press the **Power Button** to trun on the player.
2. Press the **Open/Close Button** to open the disc tray. Place the disc on the tray with the label facing upward.
3. Press **Open/Close Button** again to close the tray. Playback will begin automatically for supported discs or follow on-screen prompts.



4. Depending on the disc content, a navigation menu may appear. Use the **Directional Buttons** and **OK** to select desired content.
5. Playback Controls
   Use the remote control or front panel buttons to:
   • Play • Pause • Stop
   • Skip tracks or chapters • Fast forward or rewind
6. To shut down the player, press the **Power Button**.



1. Press the **Option Button** on the remote control to open the option menu.
2. Use the **Up/Down Button** to highlight the desired setting. Press the **OK** to confirm your selection.

Option Menu

The OPTION MENU selections may vary depending on the content being played. A summary of the selections and their functionality is described as follows:

When playing video discs (DVD, BD) and video files:

- Subtitle setting: Select the desired subtitle language from available options.
- Track setting: Select requisite sound tracks among those available.
- Replay: Repeated sections, headings or the whole disc.
- Image adjustment: Display a menu for image adjustment.

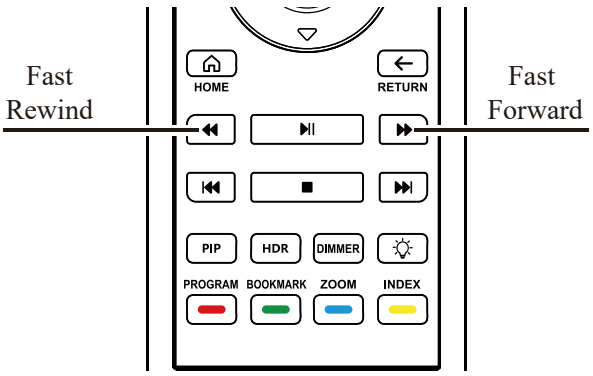
When playing audio discs (CD, SACD) and music files:

- Programmed playback: Play songs in a custom priority order (available only during CD playback).
- Replay: Replay the current song or all songs.
- Shuffle/Random playback: Enable shuffle/random mode.

When playing image files:

- Shuffle/Random playback: Enable shuffle/random mode.
- Switching method: Change the method for playing slides.

Rapid Playback



Fast forward and fast rewind operations are available during playback.

Fast Forward

1. Press the **Fast Forward Button** on the remote control to initiate fast forward playback.
2. Each subsequent press of the **Fast Forward Button** cycles the playback speed through the following sequence:

▶ ▶▶2x ▶▶4x ▶▶8x ▶▶16x ▶▶32x

Fast Rewind

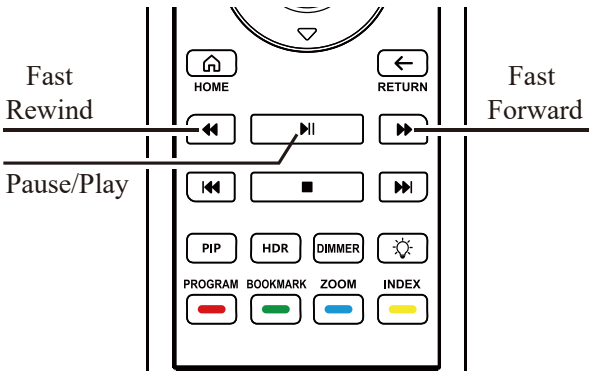
1. Press the **Fast Rewind Button** on the remote control to initiate fast rewind playback.
2. Each subsequent press of the **Fast Rewind Button** cycles the playback speed through the following sequence:

▶ ◀◀2x ◀◀4x ◀◀8x ◀◀16x ◀◀32x

Notes

- Certain Blu-ray discs using BD-Java might have their own fast forward and fast rewind control. Actual speed might somewhat differ among the discs, and progress is even displayed for certain discs.

Slow Playback



Slow forward and slow rewind operations are available from a paused state.

Slow Forward

1. Press the **Pause/Play Button** to pause playback.
2. Press the **Fast Forward Button** to initiate slow forward playback.
3. Each subsequent press of the **Fast Forward Button** cycles the playback speed through the following sequence:



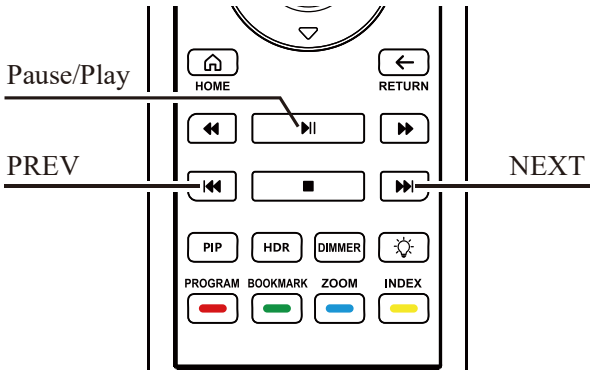
Slow Rewind

1. Press the **Pause/Play Button** to pause playback.
2. Press the **Fast Rewind Button** to initiate slow rewind playback.
3. Each subsequent press of the **Fast Rewind Button** cycles the playback speed through the following sequence:



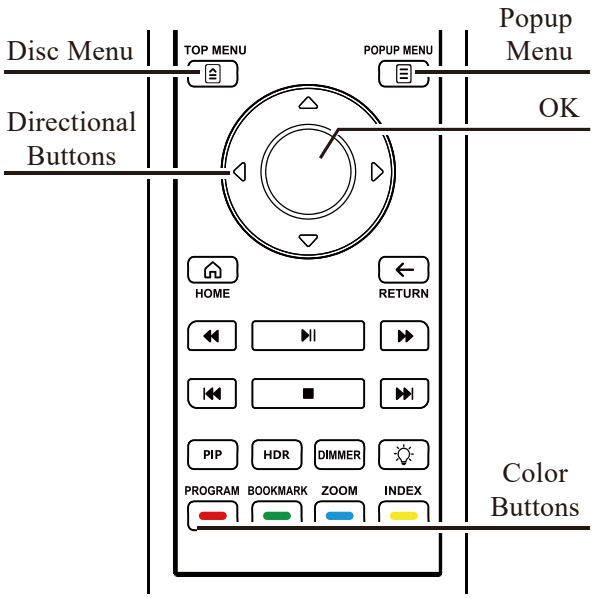
Press the **Pause/Play Button** again to exit slow playback and resume normal playback.

Pause and Frame-by-Frame Playback



1. Press the **Pause/Play Button** during playback to suspend playback. A pause icon will be displayed on the screen to indicate the paused state.
2. When a DVD or a Blu-ray disc is under the paused state, press the **Next Button** or **Previous Button** to advance video frames forward or backward one frame at a time.

Blu-ray Disc Menu



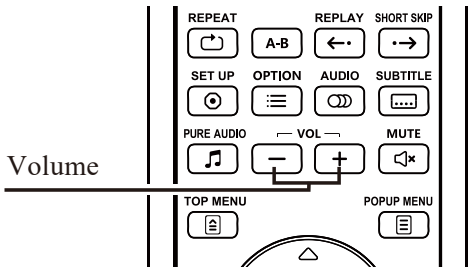
A Blu-ray disc menu typically consists of a Disc Menu and a Popup Menu.

Disc Menu: Appears after preview and copyright information when playback starts.

Popup Menu: Appears during movie playback without suspending playback.

1. Press the **Disc Menu Button** (TOP MENU) to enter the disc menu. Press the **Popup Menu Button** to enter the popup menu.
2. Use the **Directional Buttons** to browse menu options, then press the **OK Button** to confirm your selection.
3. Some menus support **Color Buttons**. Press the corresponding **Color Button** to select specific menu functions.

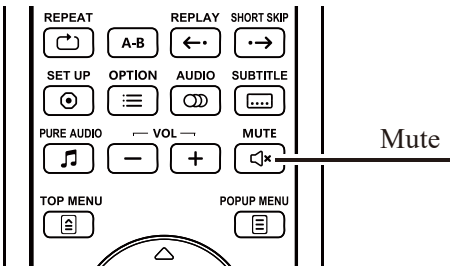
Volume Adjustment



Audio volume can be adjusted using the VOL +/- Buttons on the remote control.

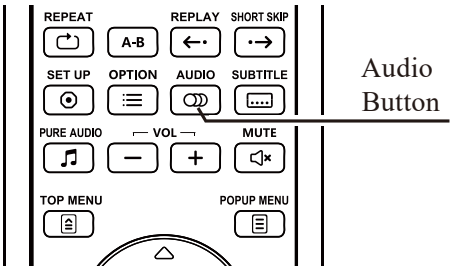
1. Press the **VOL + Button** to increase the audio volume.
2. Press the **VOL - Button** to decrease the audio volume.

Mute



1. By pressing **MUTE** on the remote control during playing, the audio output will be turned off, and a mute icon will be displayed on TV screen.
2. Press **MUTE** again to recover the audio output.

Audio Track Selection



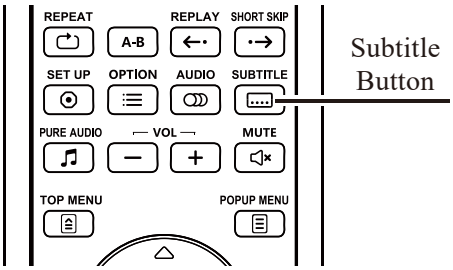
The Audio Button allows you to switch between available audio tracks during playback.

1. Press the **Audio Button** on the remote control to access the audio track selection interface.
2. Select the available audio tracks by repeatedly pressing the **Audio Button** or using the **Up/Down Buttons**.

Notes

- Availability of languages and audio channels varies by disc. Some DVD-Audio discs allow audio track selection with the AUDIO button, while others require the user to choose from the audio setup menu of the disc. When playing an SACD with both multi-channel and stereo content, the AUDIO button can be used to switch between the two formats.

Subtitle Selection

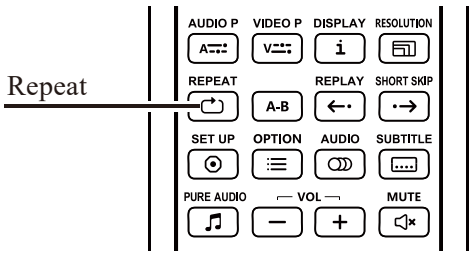


Subtitle selection is available during playback of DVDs, Blu-ray discs, and other compatible video programs.

1. Press the **Subtitle Button** during playback to access the subtitle selection interface.
2. Select the available subtitles by repeatedly pressing the **Subtitle Button** or using the **Up/Down Buttons**.

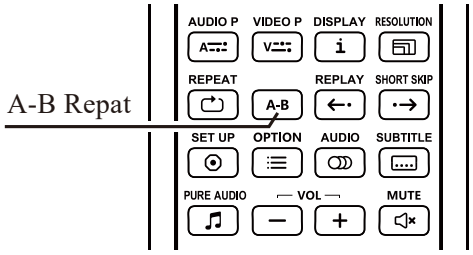
Advanced Operations

Repeated Playback



1. Press the **Repeat Button** on the remote control to repeat a disc, track, chapter, or segment.
2. Each press of the **Repeat Button** cycles the repeat mode through available options in sequence.

A-B Repeat



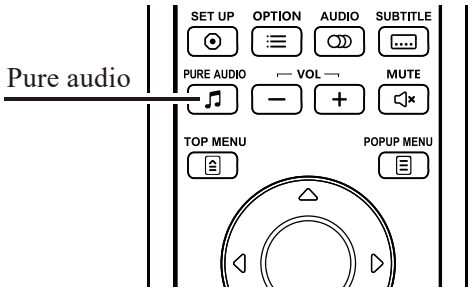
To repeat a specific segment:

1. During normal playback, press the **A-B Button** at the desired start point. The "A-" indicator will appear on the TV screen.
2. When playback reaches the desired end point (Point B), press the **A-B Button** again. The player will repeatedly play the A-B segment, and the "A-B" indicator will display.
3. Press the **A-B Button** a third time to cancel A-B repeat and resume normal playback.

Notes

- Some disc formats or content might be inapplicable. Repeated playing might be disallowed for certain Blu-ray discs.

Pure Audio Mode



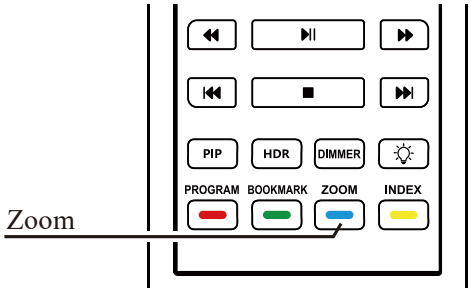
Under the pure audio mode, any potential interference between video and audio signals is reduced by turning off video processing and output.

1. Press **Pure audio Button** to enter the pure audio mode, and “pure on” will be displayed on the display screen, and video output will be turned off accordingly.
2. Press **Pure audio Button** again, and “pure off” will be show up on the display screen. At this time, recover normal video output and cancel the pure audio mode.

Notes

- Since HDMI transmits audio and video signals simultaneously, the HDMI video output cannot be completely disabled. Instead, a black screen will be displayed, which minimizes potential interference.

Zooming and Display Ratio



This function is used for amplifying or narrowing display frames.

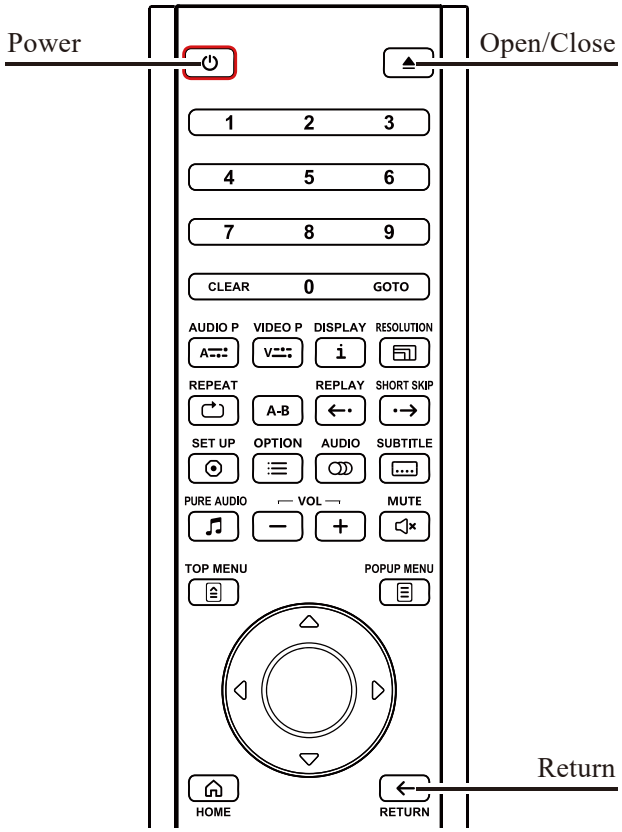
Press **Zoom** on the remote control to change the zoom level.

Whenever **Zoom** is pressed, switch the zoom level in order.

The following zoom levels are optional:

1:1 (no zoom), 2X, 3X, 4X, 1/2X, 1/3X, 1/4X

Memory and Automatic Resume

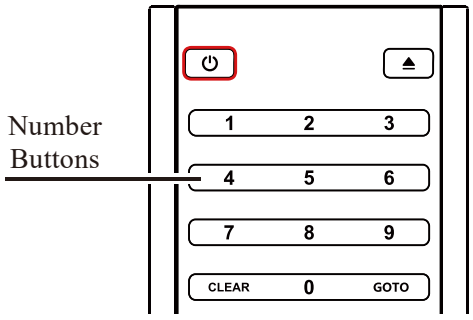


1. When playback is suspended (e.g., stopped, disc ejected), the player automatically memorizes the current playback position. This position is retained even after power cycling or disc replacement.
2. When a memorized disc is reloaded, the player will detect the saved position and automatically resume playback from that point. To cancel resume playback and start from the beginning, press the **Return Button** when the resume reminder is displayed.
3. The player can store playback positions for up to 10 discs. When a 11th disc is played, the oldest stored position will be overwritten.

Notes

- Some Blu-ray discs do not support playback functions based on memory functionality. They can only initiate playback from the start of the disc.

Playback by Track Number



In playing a disc, you can directly jump to certain track by pressing the **number** on the remote control. For instance:

- To choose the 7th track, please press [7].
- To choose the 16th track, rapidly and continuously press [1] and [6].

Notes

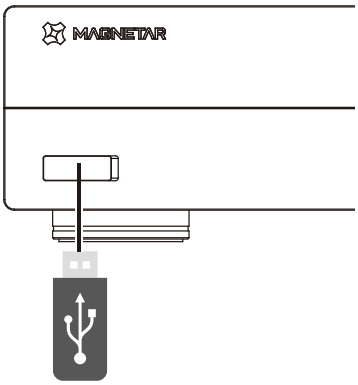
- For certain DVD-Audio and Blu-ray discs, the sections to be played might not be directly chosen.

Media File Playback

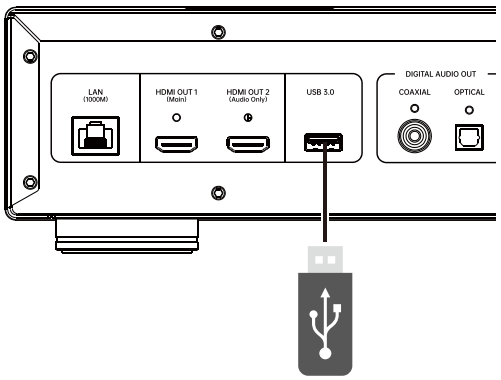
In addition to playing standard disc formats such as Blu-ray, DVD, CD, and SACD, the Player also supports playback of digital media files. You can enjoy music, videos, and photos stored on data discs (recordable CD, DVD, or Blu-ray discs), USB flash drives, hard drives, or network storage devices.

Due to the variation of media, encoding software and techniques used, compatibility cannot be guaranteed for all user-created or downloaded content. Support for such content is on a best effort basis.

Playback from USB Storage Devices



（USB 2.0）



（USB 3.0）

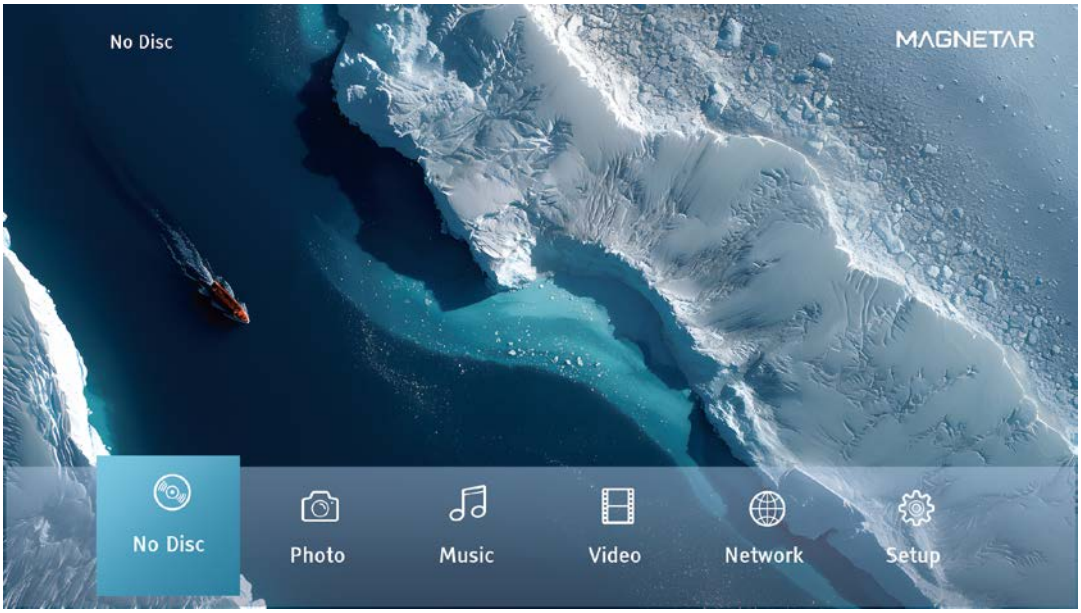
The player is equipped two USB ports: including one USB 3.0 port on the rear panel and one USB 2.0 port on the front panel. You can connect a USB storage device to either of these USB ports.
The USB ports are used for supplying maximum power supply (5 V, 500 mA) for USB storage devices. This power supply is high enough for USB flash disks and flash memory card readers, but might be insufficient for USB hard disks.
Therefore, in using USB portable hard drive, you'd better use external power supply. The USB port on the front panel is only used for upgrading, and must not be utilized for supplying power to other equipment.

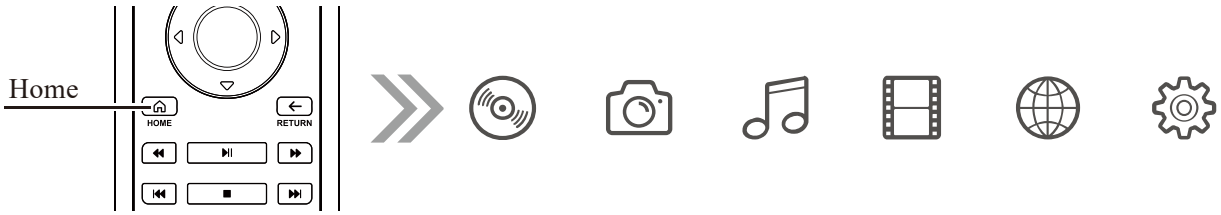
Notes

- This function is for USB storage devices only. Most USB thumb drives, portable hard disk drives and card readers conform to this device class. Other USB devices such as MP3 players, digital cameras, and mobile phones may not be compatible.
- All compatible USB storage devices must be in FAT, FAT32, exFAT formats and compatible with NTFS.
- In some cases, an incompatible USB device may cause the player to stop responding. If this occurs, simply turn off the power, remove the USB device, and turn the player back on.
- In order to minimize the risk of data corruption, it is recommended that you only unplug the USB device when playback is completely stopped.

Home Menu

The player provides a home menu to help you browse and play discs/USB flash disks and sharing local area networks. The home menu is the starting point for accessing media files.





You can bring up the Home Menu with the HOME button on the remote control. Currently there are some selections:

• Disc enables the player to start playback of an inserted optical disc.

• Photo, music and video allow you to access corresponding type of media files from a connected USB drive and inserted data disc.

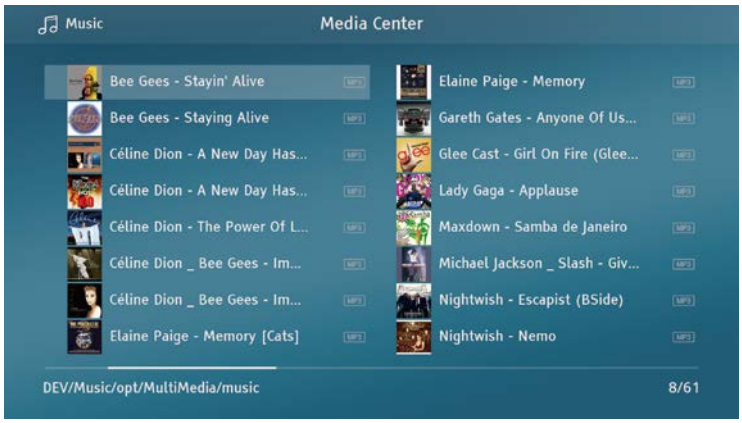
• Network enables the player to stream audio, video and photos from media servers on the home network. Compatible hardware and software may be required.

• Setup brings the player's Setup Menu.

Play Music Files

To play music files stored on an optical disc or USB drive, select Music from the Home Menu. A file browser will appear to assist you in navigating the files and folders.

The first step is to select the Data Disc or USB device that contains the music files. The player will take a moment to read the media and list the folders and music files.

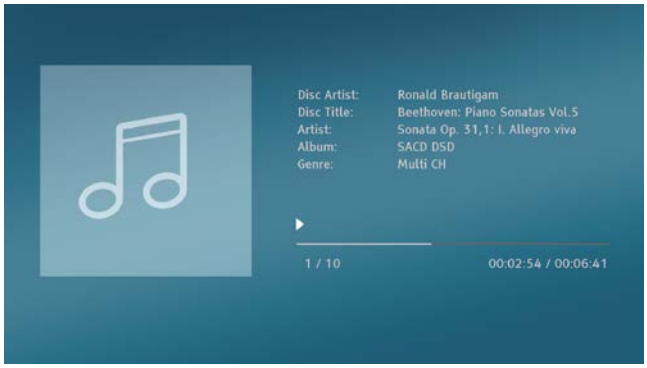


In the music browser, you can perform the following operations:

- Select a music file by pressing the **up/down/left/right Button** to move the cursor.
- Press **OK** for playing.

The following information will be displayed on the playing interface:

- Display playing status: play, pause, track and time.
- Display and change playback mode: Shuffle/Random, Repeat One/All.
- Music information.



The following operations are available while the Now Playing screen is shown:

- Normal playback control: **Play, Stop, Pause, PREV/NEXT, Fast Backward and Rewind**.
- Press the **Return Button** to return to the previous menu without stopping music playing.
- Press the **Stop Button** to **s**top playing and return to the browser.

Play Video Files

To play video files stored on an optical disc or USB drive, select videos from the Home Menu. A file browser will appear to assist you in navigating through the files and folders.

The first step is to select the Data Disc or USB device that contains the video files. The player will take a moment to read the media and list the folders and video files.



In the video browser, you can perform the following operations:

- Select a video file by pressing the **up/down/left/right Button** to move the cursor..
- Press **OK** for playing.

Once the video is played, the following functions can be used for playing control:

- By pressing the **Stop Button**, the player will stop playing the video and return to the file browser.
- Press the **Option Button** for choosing captions and tracks, etc.

Viewing Photo Files

To view digital photo files stored on an optical disc or USB drive, select Photos from the Home Menu. A file browser will appear to assist you in navigate the files and folders.

The first step is to select the Data Disc or USB device that contains the photo files. The player will take a moment to read the media and list the folders and photo files.



In the photo browser, you can perform the following operations:

- Select a photo file by pressing the **up/down/left/right Button** to move the cursor..
- Press **OK** for playing.

The following operations are available during the photo slideshow:

Routine playing control: **Play, Stop, Pause, PREV/NEXT.**
Repeated browsing: **Repeat**.
Random playing: **Yellow Button**.
Photo zooming: **Blue Button**.
Turn left (counterclockwise): **Leftward Button**.
Turn right (clockwise): **Rightward Button**.

Add Background Music

You can also add background music to the photo slideshow. To do so, you will need to prepare digital music files. The music files can be stored on the same disk as the photos, or on a different USB drive. Start music playback first by selecting Music from the Home Menu. Once the music is playing, press the HOME Button to get back to the Home Menu, and start the photo slideshow by selecting Photo in the usual manner.

Playback from a Home Network

The Player allows you to remotely stream music, photos, and video files stored on media devices connected to the same home network. You will need to prepare a computer (network-attached storage/NAS, server, or similar hardware) connected to the same network segment, and install and configure client software that emulates the functionality of **NFS, DLNA, or SAMBA/CIFS** (a network file sharing protocol).
In the setup menu, set the network setting to **ON**. In the main menu, select the network icon, then press **OK** to display a list of available servers.
In some cases, you may need to enable port forwarding on your router to view the servers on the list.



For the UDP800 MKII player, a network can be shared in any of the following three ways:

- **As a Digital Media Player (DMP)**:
  The player can actively search the local DLNA server, browser and play the share content.

- **Access SMB/CIFS Servers**:
  The player can actively search the SMB/CIFS, , and browse and play their shared content.
  Example: Shared files in Windows Network Neighborhood.

- **Access NFS Servers:**
  The player can actively search the NFS, and browse and play their shared content.
  NFS server discovery typically takes slightly longer.

Setup Menu Options

The setup menu of the player provides various setting and configuration options. For most users, the default configurations are generally sufficient, so no settings need to be modified. If you wish to adjust the player's configurations to perfectly match your home cinema setup and viewing habits, please read the following section to understand the details of the configuration options.

Use the Setup Menu

You can use the setup menu to adjust the player's settings to suit your specific audio/video configurations. When making these adjustments via the menu, the locations of required functions are indicated as follows:

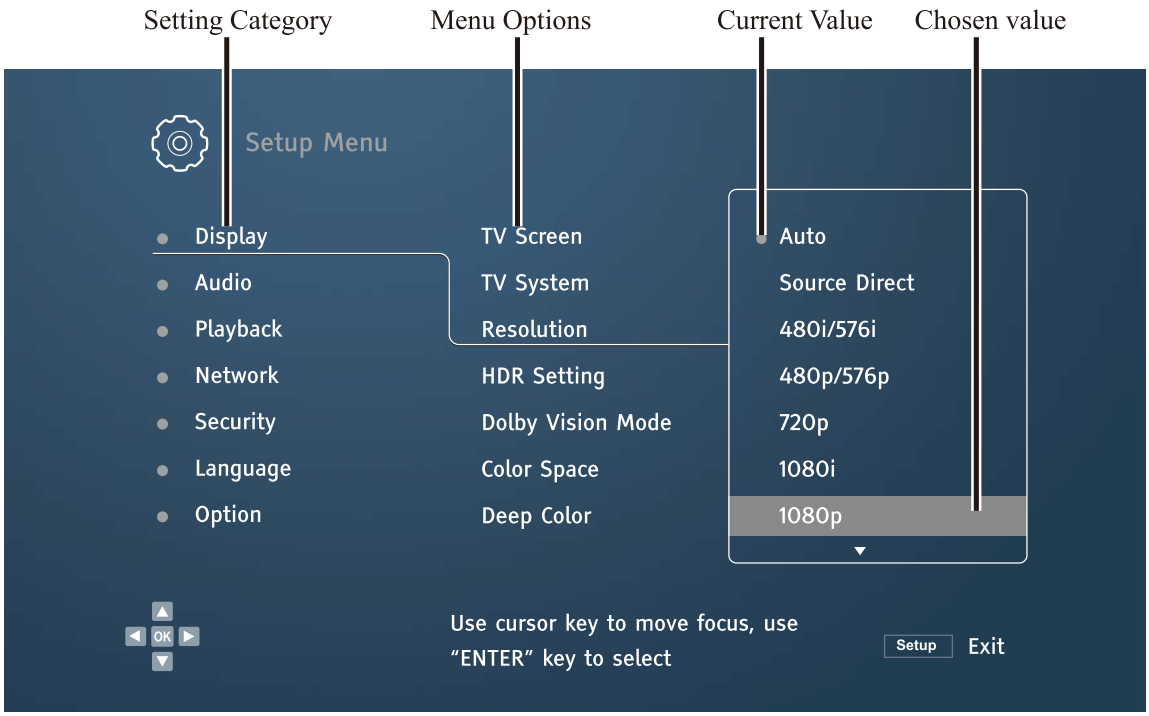
Setting menu >>> Menu options >>> Options

Setting categories form the first level of the setup menu. The player has 7 setting categories, located in the left column of the setup menu: Display, Audio, Playback, Network, Security, Language, and Options.

Menu options contain adjustable parameters, which are displayed in the center of the setup menu. When entering a setting category, the list of menu options under that category and their corresponding current settings will be shown in the central panel.

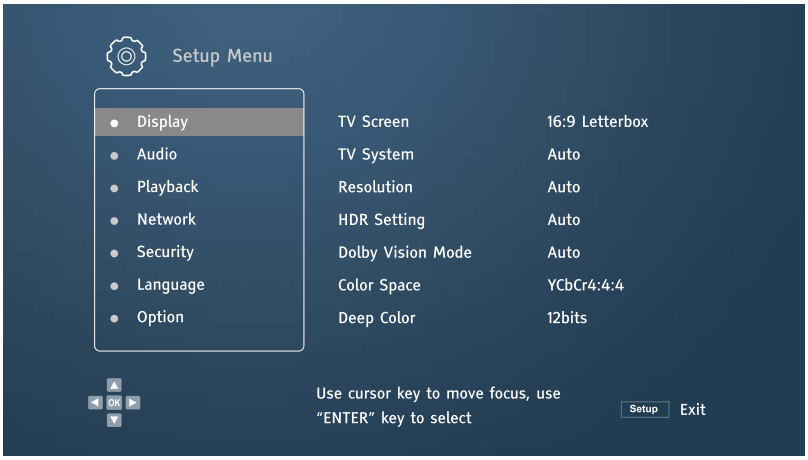
Options are exact numerical values or descriptive phrases that represent the selected settings, and appear to the right of their corresponding menu items.

If there are more options than can be fully displayed on an interface, you can view additional options by pressing the up/down Buttons.



Display Setup

The **Display Setup** menu configures how video is output from the UDP800 MKII. These settings should be selected based on the capabilities of the connected display device or video processor.



TV Screen

The player automatically adjusts the output aspect ratio to match the connected display, ensuring distortion-free video playback.

Full screen ––– Force the player to output video in full-screen mode at all time.

4:3 Letterbox ––– Preserves the original aspect ratio of widescreen video sources by displaying black bars at the top and bottom of the 4:3 screen.

4:3 Pan & Scan ––– Crops the left and right edges of widescreen video sources to fill the entire 4:3 screen.

16:9 Letterbox(default) ––– Preserves the original aspect ratio of ultra-widescreen video sources by displaying black bars on the left and right of the 16:9 screen.

16:9 Pan & Scan ––– Crops the left and right edges of ultra-widescreen video sources to fill the entire 16:9 screen.

21:9 Letterbox ––– Preserves the original aspect ratio of even wider video sources by displaying thin black bars on the left and right of the 21:9 screen.

21:9 Pan& Scan ––– Crops the extreme left and right edges of ultra-widescreen video sources to fill the entire 21:9 screen.

TV System

Select the HDMI video output format.

Auto (default) ––– The player automatically selects the optimal video output system according to the input source content.

NTSC ––– Force output of NTSC video signals.

PAL ––– Force output of PAL video signals.

Resolution

Select the desired HDMI video output resolution.

Available options include:

- **Auto (default)**

Automatically selects the highest resolution supported by the connected display.

- **Source Direct**

Outputs video at the original disc resolution without scaling.

- **480i / 576**i
- **480p / 576p**
- **720p**
- **1080i**
- **1080p**
- **4K2K**
- **4K2K 24Hz**

Manual resolution selection may be useful for compatibility or calibration purposes.

Notes

- If the connected TV is incompatible with the selected resolution, a black screen or abnormal display may occur. In this case, press and hold the **Resolution** button on the remote control for 3–5 seconds to switch to a resolution compatible with your TV.

HDR Setting

Select the appropriate HDR output mode.

Auto (default) ––– Outputs HDR if supported by both the content and the display. The player automatically checks for HDR content and whether the TV or projector is HDR compatible, and if both criteria are met, the player outputs HDR video from its HDMI (Main) output terminal. Otherwise, only SDR video is output.

HDR ––– Enable the HDR function.

SDR ––– Convert HDR source content to SDR output.

Dolby Vision Mode

Select the Dolby Vision output mode.

Auto (default) ––– The player automatically selects the optimal output mode when both the source content and display device support Dolby Vision.

Low Latency ––– Select this option when the source content is Dolby Vision and the display device supports Dolby Vision Low Latency mode.

LL RGB ––– Low Latency with RGB color space.

Off ––– Disable Dolby Vision output.

Color Space

Select the HDMI color space for video output. The appropriate color space depends on the capabilities and calibration of the connected display or video processor. Incorrect selection may result in color distortion or limited-range output.

RGB Video Level ––– Outputs video in RGB color space with limited range [16–235].
Full RGB ––– Outputs video in RGB color space with full range [0–255].
YCbCr4:4:4(default) ––– Outputs video in YCbCr 4:4:4 color space.
YCbCr4:2:2 ––– Outputs video in YCbCr 4:2:2 color space.

Deep Color

Controls extended color depth output over HDMI.

10 bits ––– Automatic color depth selection, up to 10-bit.
12 bits (default) ––– Automatic color depth selection, up to 12-bit.
Off ––– Use 8-bit color depth for HDMI outputs.

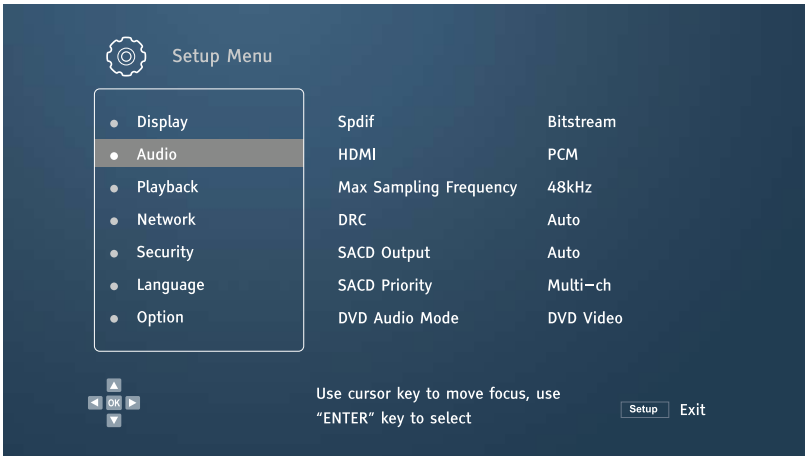
3D

Controls output of 3D video content.

Auto (default) ––– Automatically outputs 3D video when supported by both the disc and the display.
Off ––– Disables 3D video output.

Audio Setup

The **Audio Setup** menu configures how digital and analog audio is processed and delivered.



Spdif

Select the audio output format over S/PDIF digital outputs.

Bitstream (default) ––– Output digital audio in the original encoded format.
PCM ––– Output digital audio in 2-channel Linear PCM (LPCM) format.
Off ––– Disable audio output via S/PDIF.

HDMI

Select the audio output format over HDMI outputs.

Bitstream ––– Output digital audio in the original encoded format.
PCM (default) ––– Output digital audio in multi-channel Linear PCM (LPCM) format.
Off ––– Disable audio output via HDMI.

Max Sampling Frequency

Allows you to set the audio upper sample rate limit for S/PDIF digital outputs.

48kHz (default) ––– Forces down-mixed 2-channel, linear PCM (LPCM) digital audio format, and sets the maximum sample rate to 48kHz.
96kHz ––– Forces down-mixed 2-channel, linear PCM (LPCM) digital audio format and sets the maximum sample rate to 96kHz.
192 kHz ––– Forces down-mixed 2-channel, linear PCM (LPCM) digital audio format and sets the maximum sample rate to 192kHz.

DRC (Dynamic Range Control)

On ––– Compresses dynamic range for improved dialog intelligibility at lower listening levels.

Off ––– Preserves the original dynamic range.

Auto (default) ––– Select this option to automatically enable/disable input-based detection of disc audio signals.

SACD Output

Select the audio output format for SACD playback.

Auto (default) ––– Automatically choose the output format. If connected device supports DSD, DSD will be output. Otherwise, PCM will be output.

PCM ––– SACD data is converted into multi-channel, high-resolution PCM data. The converted PCM data is then output through HDMI or the internal DAC (Digital to Analog Converter) for the analog audio output ports.

DSD ––– SACD Direct Stream Digital (DSD) data is output over HDMI without any conversion. For the analog audio outputs, DSD data is converted into an analog signal directly by the internal DAC.

Notes

- Due to copyright and bandwidth limitations, DSD audio data cannot be transmitted via optical/coaxial outputs.

SACD Priority

Select which audio layer to play for SACD.

Multi-ch (default) ––– Play the multi-channel surround audio layer

2-ch ––– Play the 2-channel stereo audio layer.

CDDA ––– Play CD layer of SACD.

DVD Audio Mode

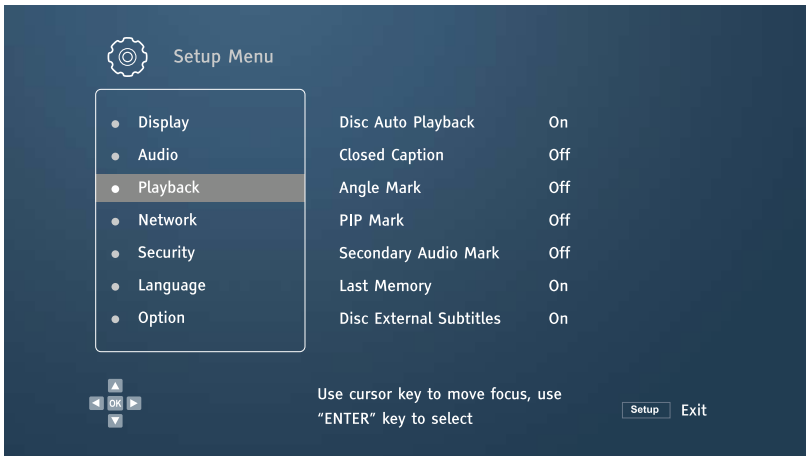
Select which portion of a DVD-Audio disc to play.

DVD Audio ––– Play the DVD-Audio portion of the disc.

DVD Video (default) ––– Play the DVD-Video portion of the disc.

Playback Setup

The **Playback Setup** menu controls disc playback behavior and on-screen indicators.



Disc Auto Playback

On (default) ––– Playback begins automatically when a disc is inserted.
Off ––– Playback begins only after manual selection.

Closed Caption

On ––– Turn on CC (Close Caption) display.
Off (default) ––– Turn off CC (Close Caption) display.

Angle Mark

On ––– Displays an on-screen indicator when multiple camera angles are available.
Off (default) ––– Disables the multiple camera angles indicator.

PIP Mark

On ––– Displays Picture-in-Picture availability indicators.
Off (default) ––– Disables the Picture-in-Picture indicators.

Secondary Audio Mark

On ––– Displays secondary audio indicators.
Off (default) ––– Disables the Secondary Audio indicators.

Last Memory

Determines whether playback resumes from the previously saved position..

On (default) ––– Playback resumes from the last stopping point.

Off ––– Playback starts from the beginning.

This setting applies to CDs, SACDs, DVDs, and supported Blu-ray Discs.

Disc External Subtitles

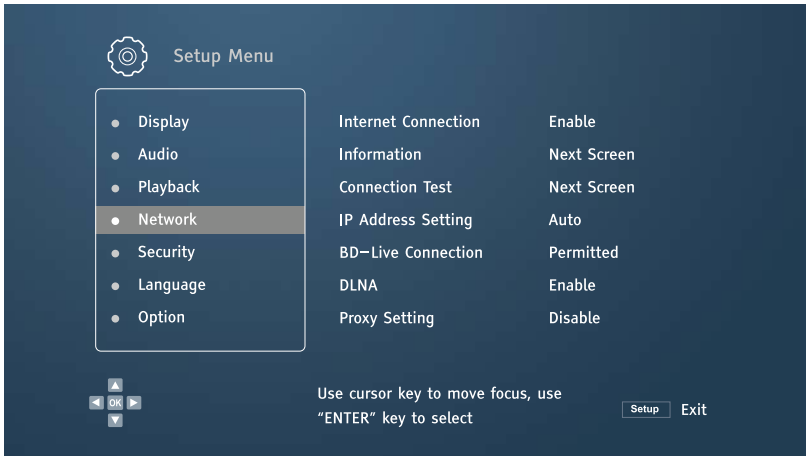
Load external subtitles from the root directory of the USB storage device while playing the disc.

On(default) ––– Enable load external subtitles.

Off ––– Disable load external subtitles.

Network Setup

The **Network Setup** menu configures network connectivity and permissions for network-based features.



Internet Connection

Configures the player's network connection. The playersupports wired Ethernet connections. A wired connection is recommended for maximum stability and consistent performance.

Enable (default) ––– Enable the Internet connection.

Disable ––– Disable the Internet connection.

Information

Display information on current Internet connections, including connection type, IP address and Ethernet MAC address.

Connection Test

Test if the player is connected to the Internet and display the test results.

IP Address Setting

Determines how the player obtains its IP address.

Auto (default) ––– The player automatically obtains its IP address information using DHCP.

Manual ––– Allows you to manually enter the numeric IP address. Set the IP configuration manually only when the router has no DHCP server functions or when the router's DHCP server function is disabled. Press **CLEAR Button** on the remote to clear the edited content.

BD-Live Connection

Controls access to BD-Live online content when supported by the disc.

Permitted (default) – Allows full access to BD-Live content.

Partially Permitted – Allows limited BD-Live access.

Prohibited – Disables BD-Live access.

BD-Live functionality depends on disc authoring and network availability.

DLNA

Enables or disables DLNA servers.

Enable (default) – Allows playback of compatible media files from DLNA servers on the local network.

Disable – Disables DLNA servers.

Proxy Setting

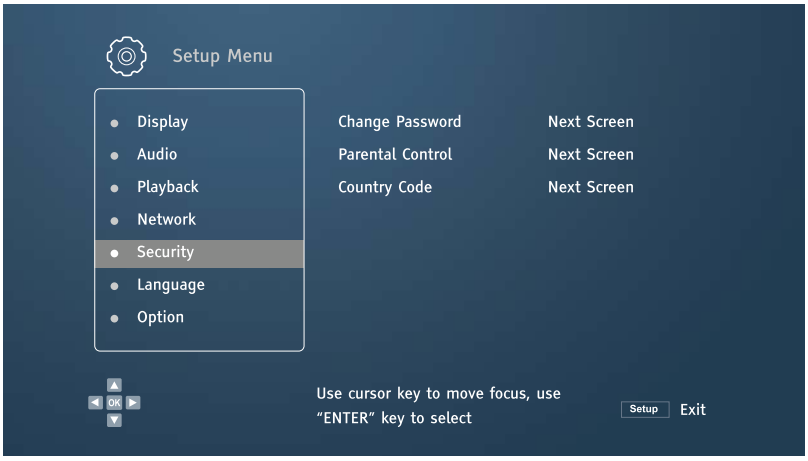
Enables or disables configure the proxy server settings.

Disable (default) – Disables the use of a proxy server.

Enable – Accesses the Internet via a proxy server.

Security Setup

The **Security Setup** menu provides parental control features to restrict playback based on content ratings.



Change Password

Change the grading control password. The current password can be replaced by a new one after it is entered. The default password is “0000”.

Parental Control

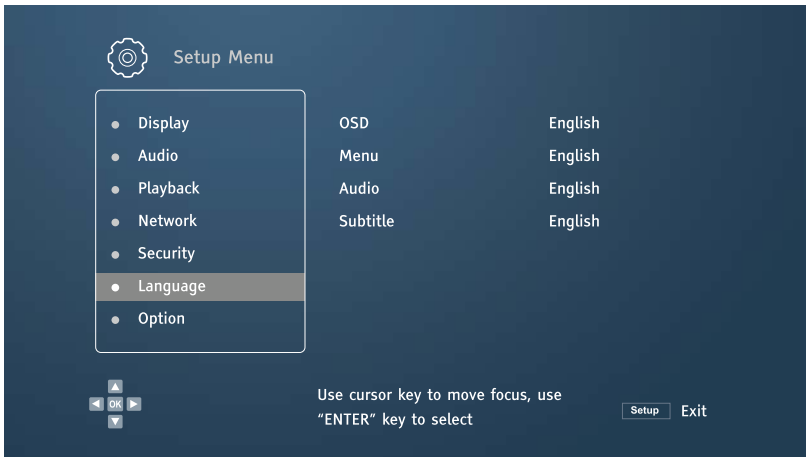
Restricts disc playback based on rating levels.
When parental control is enabled, playback of discs exceeding the selected rating requires entry of the parental control password.

Country Code

Sets the country code used to determine disc rating systems.
Select the appropriate country code to ensure correct enforcement of parental control restrictions.

Language Setup

The **Language Setup** menu configures language preferences for menus, audio, and subtitles.



OSD

Select the language used for the on-screen display and Setup Menu.

Menu

Select the preferred language for disc menus.
If the selected language is available on the disc, it will be used instead of the default disc menu language.

Audio

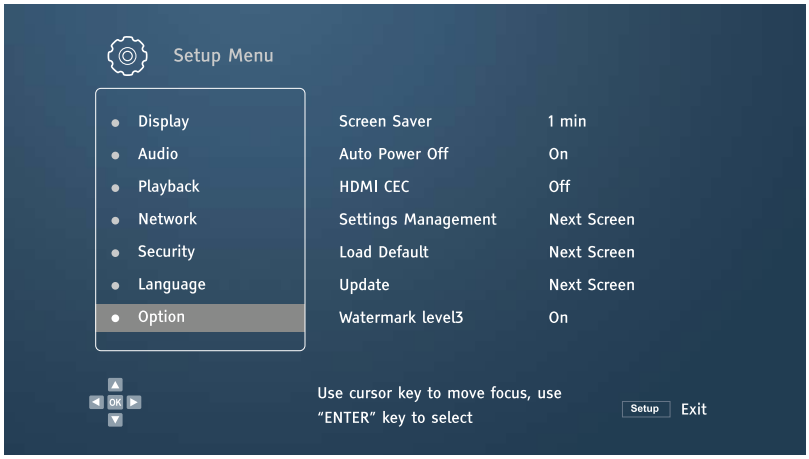
Select the preferred audio language for disc playback.
If the selected language is available on the disc, it will be selected automatically.

Subtitle

Select the preferred subtitle language.
If the selected language is available on the disc subtitle, it will be used instead of the default disc subtitle language
When **off** is selected, subtitle behavior is determined by disc authoring.

Option Setup

The **System Options menu** provides system-level configuration and maintenance functions.



Screen Saver

Activates a screen saver after a period of inactivity to protect connected displays.

Available options:

- **Off**
- **1 Minute (default)**
- **3 Minutes**
- **10 Minutes**

Auto Power Off

To allow the player to auto-shutdown after 30 minutes of inactivity. This function helps reduce power consumption and unnecessary operation when the player is not in use.

On (default) ––– Enable the Auto Power Off.

Off ––– Disable the Auto Power Off.

HDMI CEC

Set the HDMI CEC mode.

HDMI1 ON ––– Enable CEC via HDMI1.

HDMI2 ON ––– Enable CEC via HDMI2.

Off (default) ––– Disable CEC.

Settings Management

The Settings Management menu allows backup and restoration of player configuration settings.

Export ––– Exports current player settings to the first detected USB storage device.
The player creates a configuration file named **config_file.txt**.
This file is stored in binary format and is intended for Magnetar technical support use only.

Import ––– Restores player settings from a configuration file stored on a USB storage device.
To avoid errors during this process, connect only one USB storage device when performing an import.

Load Default

Restores all system settings to factory default values.
Use this function if configuration errors occur or before relocating the player to a new system.

Update

Allows updating of the player's firmware when updates are available.
Do not power off the player or disconnect power during a firmware update, as this may result in malfunction.
Please browse the MAGNETAR website (www.magnetar-audio.com) for the latest firmware and updates.

USB Storage ––– Update the player firmware via the USB storage.
Network ––– Update the player firmware via the network

Watermark Level3

Watermark Level 3 is Cinavia copyright protection.

On (default) ––– The audio will be muted when playing pirated content, meanwhile a pop-up reminder will appear to prompt users to obtain genuine media.

Off ––– The audio will be muted when playing pirated content, but no pop-up reminder will appear.

BUDA

Allows you to manage the persistent storage for BD-Video content. The persistent storage is a data storage area that holds additional content for BonusView and BD-Live features. The data will be kept even if you turn off the player.

BUDA Information ––– Display used space of the persistent storage. If the space available is small, some Blu-ray Discs may not play properly.

BUDA Setup ––– Select which storage device should be used.

About Player

Display firmware version number and some other information of the player.

Others

Reminders

- In order to prolong the life of your player, it is recommended that you wait at least 30 seconds before you power it on after switching it off.
- Remove discs and turn the power off after operation.
- Some functions of the player may not be applicable to certain discs.
- Some discs with special features may not be fully supported by the player. This is not a malfunction of the unit.
- In the case of player malfunction, please turn it off, wait for 30 seconds and turn it back on.

Troubleshooting

If the UDP800 MKII does not operate as expected, review the following information before contacting service personnel.

Faults	Potential Causes	Solutions
No Power	1. AC power cord is loose 2. Wall outlet is non-functional 3. Power supply voltage does not match the rated voltage (rear panel)	1. Confirm the AC power cord is securely connected to the player and wall outlet 2. Verify the wall outlet is functioning 3. Ensure the power supply voltage matches the rating indicated on the rear panel
No Picture or Unstable Video	1. HDMI cables issues 2. Selected output resolution is unsupported by the display 3. Resolution setting is incorrect 4. Player/display device has system glitches 5. "Pure tone" mode is enabled 6. TV does not support the video output format	1. Confirm HDMI cables are securely connected 2. Verify the selected output resolution is supported by the connected display 3. Set **Resolution** to **Auto** in the Display Setup menu 4. Power-cycle both the player and the display device 7. Press **PURE TONE** to cancel the mode 8. Choose an output resolution suitable for your TV
No Color / Wrong Color	1. Saturation setting is too low 2. Color space is incorrectly set	1. Check saturation settings of your TV and player 2. For HDMI video output, check the color space settings of your TV and player
No Audio Output	1. Audio output settings do not match connected equipment 2. HDMI Audio mode (Bitstream/PCM) is incorrectly set 3. Volume on amplifier/AV receiver is too low 4. Audio cable is incorrectly connected 5. Mute mode is enabled 6. Note that some audio formats may be unavailable over coaxial or optical	1. Confirm audio output settings match the connected equipment 2. Verify HDMI Audio is set correctly (Bitstream or PCM) 3. Check volume levels on connected amplifiers or AV receivers 4. Inspect the audio cable and reconnect if necessary 5. Press **MUTE** to cancel mute

Faults	Potential Causes	Solutions
	outputs due to interface limitations.	
Disc Does Not Play	1. Disc format is unsupported 2. Disc has scratches, fingerprints, or damage 3. Regional compatibility issue 4. Disc is inserted incorrectly 5. Laser head has condensation	1. Confirm the disc format is supported 2. Check the disc for scratches, fingerprints, or damage; clean the disc if needed 3. Verify regional compatibility 4. Reinsert the disc with the label facing upward 5. Open the player, remove the disc, and leave the player open for one hour to dissipate condensation
Remote Control Malfunctions	1. Remote control is too far from the player 2. Battery power is low	1. Use the remote control within the effective distance 2. Replace the batteries
Temporary Malfunctions	1. Disc is scratched or damaged 2. Some functions fail during playback 3. Interference from other devices	1. Replace the disc 2. Try again after the player fully stops playing 3. Power off other devices to check for interference; replace interfering devices or move them to other locations
Some Menu Options Are Grayed Out	Some menu options cannot be altered while a disc is playing (mutually exclusive settings)	Try setting the menu again after the player fully stops playing and the disc is ejected
USB or Network Playback Issues	1. File formats are unsupported 2. USB storage devices are improperly formatted 3. Network connection/configuration error	1. Confirm file formats are supported 2. Ensure USB storage devices are properly formatted 3. Verify network connection and configuration

If problems persist, contact your Magnetar dealer or authorized service personnel.

Specifications and Parameters

Specifications are subject to change without notice. Refer to official Magnetar documentation for the most current specifications, performance data, and compliance information.

Disc type *	UHD Blu-ray, Blu-ray, Blu-ray 3D, DVD-Video, DVD-Audio, AVCHD, SACD, CD, Kodak Picture CD, CD-R/RW, DVD±R/RW, DVD±R DL, BD-R/RE (Playback of recordable/rewritable discs may be limited or not guaranteed due to disc quality, burning condition, file system compatibility, or recording device differences.)
Output	Analog audio: Stereo Independent stereo analog audio: XLR balanced output, RCA output. Optical/coaxial audios: up to 2ch/192kHz PCM, Dolby Digital, DTS. HDMI audio:up to 7.1ch/192kHz PCM, up to 5.1ch DSD, Bitstream. HDMI video: UHD 23.976/25/30/50/59.94/60Hz, 1080 i/p, 720p, 576i/p, 480i/p, source direct.
Characteristics of analog audios ** (Stereo audio output)	Frequency Range: 20Hz ~ 20kHz (±0.05dB) Signal-to-noise ratio: ≥ 120dB Total Harmonic Distortion + Noise: ≤ 0.01% Output Level: (RCA) 2.1±0.2Vrms; (XLR) 4.2±0.4Vrms Dynamic Range: ≥120dB Channel Separation: (RCA) > 100dB; (XLR)＞120dB
General specifications	Power supply: AC 100-240V ~, 50/60Hz Power: ＜30 W, Standby ＜0.5 W Dimension: 430 mm x 310 mm x 90 mm Weight: 6.8kg
Working temperature	41°F – 95°F 5°C – 35°C
Working humidity	15% – 75% No condensation

* Due to diversity of used multimedia, software and technologies, compatibility of user codes or users' own discs cannot be guaranteed.
** Nominal specifications

Storage
If the player will not be used for an extended period of time:

- Remove any discs from the disc tray.
- Disconnect the AC power cord.
- Store the unit in a cool, dry environment.

Care and Maintenance
Disconnect the player from AC power before cleaning.
Clean the exterior surfaces using a soft, dry cloth only. Do not use solvents, sprays, or abrasive cleaners.
Do not attempt to service or modify the player internally. Unauthorized servicing may result in damage and void the warranty.

Regulatory Notices

This product complies with applicable international safety and electromagnetic compatibility standards.

Certification markings and compliance statements are located on the rear panel of the product and in accompanying documentation.

Disclaimer

Magnetar reserves the right to make changes to product features, specifications, and documentation without prior notice.

This manual is provided for informational purposes only.

RS-232 Control Protocol

The UDP800 MKII includes an RS-232 control interface for integration with third-party control systems.

Pins	2	3	5
Signals	Transmit data (TXD)	Receive data (RXD)	Ground (GND)

This pin configuration allows connection of a personal computer to the player by a straight-through 9-pin RS-232 serial cable, and a serial terminal (e.g. Hyper Terminal) is operated for communication. Please don't connect the player to your personal computer through any "Null-Modem" cable.
To understand how to create connections, please refer to the document on remote control system.

Communication Configuration

Baud Rate	115200
Stop Bit	1
Data Bit	8
Parity Bit	N/A
Flow Control	N/A

Command Structure

Each command starts with "#" (ASCII code is 0x23), followed by one 3-character command code. It ends with a line feed upon carriage return (ASCII code is 0x0d 0x0a).

The command structure is exemplified as follows:
<Command> = <start symbol><command code><end symbol>
<Start symbol of command> = # (ASCII 0x23)
<Command code> = <byte><byte><byte>
<Parameters>=specific commands
<End symbol of command> = carriage return (ASCII 0x0d) [line feed (ASCII 0x0a)]

Response Structure

The player will execute the command and send a response back after receiving it. Character string of the response is "ack".

Commands

Command Codes	Remote Control Buttons	Functions	Response Instances
POW	Power	Put the player under the “standby” state	ack
EJT	Ejector Opening/Closing	Open/close the ejector	ack
PON	Power On	Power the player “on”	ack
POF	Power Off	Power the player “off”	ack
DIM	Dimming	Adjust display luminance of front panel	ack
PUR	Pure Tone	Pure tone mode (switch off video output)	ack
VUP	Volume +	Raise volume	ack
VDN	Volume -	Lower volume	ack
MUT	Mute	Turn off audios	ack
NU1	1	Number Button 1	ack
NU2	2	Number Button 2	ack
NU3	3	Number Button 3	ack
NU4	4	Number Button 4	ack
NU5	5	Number Button 5	ack
NU6	6	Number Button 6	ack
NU7	7	Number Button 7	ack
NU8	8	Number Button 8	ack
NU9	9	Number Button 9	ack
NU0	0	Number Button 0	ack
CLR	Clear	Clear digital input	ack
GOT	Jump	Jump to the designated point to start playing	ack
HOM	Main Menu	Open the main menu to choose media sources	ack
OSD	Information	Display/hide displayed information	ack
TTL	Disc Menu	Display title menu of a Blu-ray disc or DVD	ack
MNU	Popup Menu	Display popup menu of a Blu-ray disc or DVD	ack
NUP	Up	Navigation	ack
NLT	Lef	Navigation	ack
NRT	Right	Navigation	ack
NDN	Down	Navigation	ack
SEL	Confirm	Navigation	ack
SET	Set	Open setting menu of the player	ack
RET	Return	Return to the previous menu or mode	ack
RED	Red	Functions vary with content	ack
GRN	Green	Functions vary with content	ack

BLU	Blue	Functions vary with content	ack
YLW	Yellow	Functions vary with content	ack
STP	Stop	Stop playing	ack
PLA	Play	Start playing	ack
PAU	Pause	Pause playing	ack
PRE	Rebounce	Jump to the previous song	ack
REV	Fast Backward	Play fast backward	ack
FWD	Fast Forward	Play fast forward	ack
NXT	Next	Jump to the next song	ack
AUD	Audio Track	Choose track or dubbing language	ack
SUB	Caption	Choose caption language	ack
ANG	Angle	Choose angle of view	ack
ZOM	Zoom	Zoom up/down and adjust image ratio	ack
SAP	Second Audio	Enable/disable the second audio and menu. Down mix sound effects into main audios.	ack
ATB	AB Repeat	Repeat playing the chosen segment	ack
RPT	Repeat	Repeat playing	ack
PIP	Picture-in-picture	Display/hide picture-in-picture	ack
HDM	Resolution	Switch output resolution	ack
SUH	Caption (hold)	Keep pressing the caption Button to enable the function for setting caption positions	ack
OPT	Option	Display/hide option menu	ack
SEH	Image Adjustment	Adjust image brightness, contrast and saturation, etc.	ack
HDR	HDR	Display HDR selection menu	ack

Network Control

The UDP800 MKII is equipped with an RJ-45 network interface. It allows a personal computer to connect to the player via a local area network, with the player's network listening port being 8102.
You can use third-party applications to connect to this listening port to control the player.
The instruction format, feedback information list, and instruction list of control commands are the same as RS232 control (refer to page 48).

Table of Hazardous Substances Name and Content

Material Types	Lead	Mercury	Cadmium	(Cr6+)	(PBB)	(PBDE)
	(Pb)	(Hg)	(Cd)			
Baseplate for Assembly	X	○	○	○	○	○
Casing	X	○	○	○	○	○
Optical Module	X	○	X	○	○	○
Drive Unit	X	○	○	○	○	○
Accessories (Cables and Remote Control, etc.)	X	○	○	○	○	○

○ indicates that the content of this hazardous substance in all homogeneous materials of the controlled part is below the limit requirements specified in the S/T/T1136.3-2006 standard.
x indicates that the content of this hazardous substance in at least one component or material within the part exceeds the limit requirements specified in the S/T/T1136.3-2006 standard. However, they fall within the exemption scope of the RoHS Directive.

Notes
This player complies with the restrictions specified in the EMC directive concerning the use of connecting cables within 3 meters.

Instructions on Warranty for Magnetar Products

I. Warranty Provided in Accordance with Relevant National Laws and Regulations

Users of Magnetar products are entitled to comprehensive **Guarantees services** (repair, replacement and return) in accordance with the *Rules on Responsibilities for Repair, Replacement and Return of Household Audio-Visual Products* issued by the relevant national authorities on July 23, 2002.

II. Warranty Principles

1. In the event of a malfunction under normal operating conditions without unauthorized modification, the product shall be eligible for return within 7 days, replacement of the entire unit within 15 days, and one-year warranty service from the date of purchase.
   For specific warranty policies, please consult your point of purchase..
2. The following circumstances shall invalidate the warranty for replacement and return, but paid repair services may still be provided:
   a. Damages caused by human factors, including operations under abnormal working environment (humid and dusty) and failure to use in compliance with the manual;
   b. Users disassemble, repair or alter the products without authorization, or use firmware of other companies other than MAGNETAR‘s or repair by non-official authorized service centers;
   c. Damages caused by force majeure or natural disasters (e.g. flood, fire, earthquake and lightning strike);
   d. Lack of a valid purchase certificate;
   e. Purchase voucher with inconsistent product model/serial number, or altered/torn product model/serial number;
   f. Product used for non-household purposes, such as engineering, testing, or commercial demonstration.

III. Warranty Procedures

1. For warranty service, a valid purchase voucher must be presented.
2. For products that require repair or exchange, please contact your original point of purchase.

Notes:

1. Please read the instruction manual carefully before use or when encountering a malfunction.
2. Please carefully read the “notes” of this manual.

Manufacture: Magnetar Technology Shenzhen Co., Ltd.
Address: Room 211, 1st Building, 26 Puzhai Road, Pingdi Street Center, Longgang District, Shenzhen
Website: www.magnetar-audio.com

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